High School Career & Educational Planning Guide

2025-2026

Welcome to
The City of St. Charles School District

The decisions and choices you make as a student will have a profound and long-lasting effect on your future. You are encouraged to make your own decisions and to be responsible for the consequences of them.

All students should develop an Individualized Career & Academic Plan (ICAP) according to their individual interests, abilities, and goals. Each year the student will study and adjust their ICAP, using input from classroom success, parents, teachers, counselors, and other resources. During both middle school and high school, counselors work with students showing them career resources to aid in developing their ICAP. Information on careers, vocational-technical schools, scholarships, college entrance requirements, and other related data is available from the counselor.

Parent involvement is critical to the success of the student's plan of study. It is the responsibility of each student to carefully read all of the registration materials and requirements for graduation and to be willing to live with the choices made for the year. Parents should be aware of the requirements and recommendations for their student's chosen pathway. Also, parents should support the student and school by providing a proper study atmosphere at home and by maintaining good communication with school officials and teachers.

We challenge you to set high standards for yourself, select courses and organizations that will advance you toward those goals, attend classes daily, and work hard to achieve your goals.

Counselors' Message

To Parents and Students:

The program of studies at the high school level is designed to expand the general educational experiences of all students and to prepare students for vocations and/or further education or training after graduation. Your high school program should be planned with your post-secondary objectives in mind. It is strongly recommended that specific graduation requirements be met before your senior year. Requirements for the Coordinating Board for Higher Education's Recommended High School Core Curriculum and the admission standards for Missouri and area colleges are provided.

We encourage parents to check report cards during the high school years and know their son/daughter's progress towards graduation. The St. Charles School District requires students to meet graduation requirements to receive a diploma. A credit deficiency may require a student to take summer school, repeat a course, or enroll in correspondence classes to make up for any lost credit. Please check the report card for the total accumulated credits each semester to ensure that your son/daughter is on track to graduate.

The Missouri State High School Activities Association (MSHSAA) states that all first-time, first-semester, freshmen are eligible for competition. All students beginning with the second semester of their freshman year will need to earn 3.5 credits to be eligible for competitive school activities according to MSHSAA guidelines. All students who take 7 credit-bearing classes are required to pass 7 credit-bearing classes or 3.5 credits each semester to be eligible for competitive school activities the following semester. Students competing in MSHSAA-sponsored activities must be enrolled in 7 credit-bearing classes. Summer school courses ***MAY*** count toward maintaining academic eligibility; a maximum of 1 credit of summer school course work can be counted toward maintaining this eligibility. Competitive school activities under MSHSAA guidelines would include sports, speech and debate, choir, band, cheerleading, dance, and drill, etc.

We want to make the high school experience a positive one for all students and look forward to working with them.

The City of St. Charles School District

Mission, Vision, Values, and Goals

MISSION

The City of St. Charles School District will REACH, TEACH, and EMPOWER all students in a safe, diverse, and innovative learning environment.

VISION

The City of St. Charles School District will be a leader of academic excellence that prepares students to be successful in all aspects of life.

VALUES

We, the City of St. Charles School District community of students, parents, staff, and patrons, value:

- High-quality education for all students which includes:
  - Lifelong learning from early childhood through adult education
  - Rigorous learning experiences that challenge all students through exploration, innovation, and creativity
  - Instruction that meets the needs of a diverse community through a systematic approach to support all students with best practices
  - Respect for all
  - Real-world, critical thinking and problem-solving skills to prepare students to be career-ready
  - Developing caring, productive, and responsible citizens
  - Strong engagement of family and community through partnerships and collaboration
  - Focus on meeting social, emotional, and behavioral needs
  - A safe, secure, and nurturing school environment
  - Partnerships with stakeholders and community resources
  - Celebrating individual, school, and district successes
- High-quality staff by:
  - Hiring and retaining a highly qualified, diverse, and engaged staff
  - Providing professional development and collaboration focused on increasing student achievement
  - Empowering staff to use innovative resources and practices
- Informed decisions that are:
  - Student-centered
  - Focused on student achievement
  - Data-driven
  - Considerate of all points of view
  - Fiscally responsible

GOALS

For planning purposes, five overarching goals have been developed. These goals are statements of the key functions of the school district.

1. **Student Performance:**
   Develop and enhance quality educational/instructional programs to improve student performance and enable students to meet their personal, academic, and career goals.

2. **Highly Qualified Staff:**
   Recruit, attract, develop, and retain highly qualified staff to carry out the LEA (local educational agency)/District mission, vision, goals, and objectives.

3. **Facilities, Support, and Instructional Resources:**
   Provide and maintain appropriate instructional resources, support services, and functional and safe facilities.

4. **Parent and Community Involvement:**
   Promote, facilitate, and enhance parent, student, and community involvement in LEA/District educational programs.

5. **Governance:**
   Govern the LEA/District in an efficient and effective manner providing leadership and representation to benefit the students, staff, and patrons of the district.

St. Charles High School

Mission & Vision

MISSION

The mission of St. Charles High School is to ensure all students learn, grow, and succeed.

VISION

Students will become 21st-century learners through a challenging curriculum that incorporates student-centered instruction.

Students will grow socially and emotionally through a supportive, inclusive school that meets individual needs through partnerships with our community.

Students will succeed by developing and implementing a post-graduation plan in order to become productive, well-rounded, lifelong learners in our community.

St. Charles West High School

Collective Commitments

MISSION

St. Charles West, with courage, commitment, and equity, will ensure learning for all students.

VISION

The St. Charles West community will empower all to be lifelong learners in order to positively impact our changing world.

COLLABORATION

We will collaborate and support each other in developing instructional and intervention strategies.

DIVERSITY/SAFETY

We will create a safe, positive environment where relationships and diversity matter.

LIFELONG LEARNING

We are committed to high expectations for learning, behavior, and citizenship.

COMMUNICATION

We will continue to support open communication and respectful relationships with our colleagues, students, and community.

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The City of St. Charles School District Graduation Requirements

Category	Units of Credit
Communication	4
Social Studies	3
Mathematics	3
Science	3
Fine Arts	1
Practical Arts	1
PE	1
Computers	0.5
Personal Finance	0.5
Health	0.5
Electives	10.5
Total	**28**

Specific Units Include:

Social Studies: 1 Government, 1 World Civilization, 1 U.S. History

Fine Art: (1) from areas of art, music, or drama

Practical Art: (1) from areas of business education, family and consumer science (FACS), industrial technology, marketing, or Lewis & Clark Career Center

Students must pass the Missouri Constitution Test,
U.S. Constitution Test, and Civics Test. EOCs are also required for certain classes.

Other General Information

1. Seniors must be responsible for graduation requirements. If there is any doubt that graduation requirements are being met, see your counselor.

2. Students cannot earn credit in any course twice. Exceptions would include classes in Career College Readiness, Science Research, Music, Debate, Newspaper Production, Yearbook Production, Advanced Leadership Lab, Core Conditioning A and B, Fitness Walking, Strength Training, Team Sports, Recreational Games, Gifted Exploration and Expansion, Actor's Studio, Technical Theater, Broadcast Media, Video Production Live, Video Production Short Film, Advanced Design & Machine Process, Advanced Robotics, Fashion Design, and Construction Studio, AP Studio Art and Live, Learn, Lead Elite.

3. Course selection should be given careful consideration. Students will not be allowed to change classes unless there is a justifiable reason.

The City of St. Charles School District
Cum Laude Honors System

Summa Cum Laude	Magna Cum Laude	Cum Laude
4.25 Cumulative GPA	4.05 Cumulative GPA	3.85 Cumulative GPA

This chart reflects updates to the Cum Laude Honors System due to the implementation of weighted grades. Please note the following:

1) A student taking the minimum requirement of qualifying courses and earning the same letter grades as in the old criteria. All that has been changed is to alter the numerical GPA to match the new system, which incorporates weighted grades.
2) With weighted grades, students will have the opportunity to qualify for Cum Laude recognition.
3) The bar for recognition has not been raised but merely relabeled to reflect weighted grades. The number of B's a student is allowed to meet the Cum Laude Honor System requirements did not change.
4) The following is the list of weighted courses:

Honors Courses: Honors English 1, Honors English 2, Honors US History, Honors Geometry, Honors Algebra 2, Honors Pre-Calculus, Honors Biology, Honors Chemistry, Honors Physics, Honors Concert Band, Honors Orchestra, Honors Concert Choir, Honors Chamber/Madrigal Choir, Honors Treble Choir, Honors Music Theory

College Courses: College Composition 1 & 2, College US History 1 & 2, Calculus, College Algebra, AP Biology

AP Courses: AP Language and Composition, AP Literature and Composition, AP World History, AP European History, AP Government and Politics, AP Psychology, AP Statistics, AP Biology, AP Chemistry/ Lab, AP Physics, AP Spanish 5, AP French 5, AP German, AP Art and Design, AP Computer Science Principles, AP Computer Science A

Project Lead the Way: Computer Science Essentials, Principles of Biomedical Science, Human Body Systems, Medical Interventions, Introduction to Engineering Design, Principles of Engineering, Civil Engineering and Architecture, AP Computer Science Principles, AP Computer Science A, PLTW Capstone

CAPS: Healthcare and Medical Professions - Entrepreneurship and Business Management - Creative Media, Engineering, and Applied Technology

Lewis & Clark: Early Childhood, Health Occupation, Health Related Occupations, and Computer Maintenance

WEIGHTED GRADES

The Board of Education approved weighted grades at the high school level. Weighted grades are numbers or letter grades that are assigned a numerical advantage when calculating a grade point average (GPA). Weighted grades give students a numerical advantage for grades earned in higher-level courses. The general purpose of weighted grades is to give students taking higher-level courses an advantage when determining relative academic performance and related honors or class rank.

GRADE LEVEL CLASSIFICATIONS

For a student to stay on target towards graduation, 7 credits are needed to be a sophomore, 14 credits are needed to be a junior, and 21 credits are needed to be a senior.

COURSE LOAD

All students will enroll in 8 full periods or 7 full periods and 1 academic lab unless otherwise planned with your counselor. Required courses for the student's grade level (freshman, sophomore, junior, senior) must be included in the schedule. Elective courses should be chosen to help the student be better prepared for whatever he/she wants to do after graduation. Any student who is receiving Social Security must be enrolled full-time to continue receiving benefits.

CREDIT RECOVERY

Should students find themselves in a situation where they have fallen short of credits, they need to see their counselor immediately to develop a plan to keep them on track for graduation. **Credit recovery is pursued when a student has taken a class and failed the course.** Options for credit recovery include many of the following:

- Retaking the class during an upcoming semester
- Summer school (based on course availability)
- MOCAP (unlimited courses can be taken at the student's expense) Correspondence courses (up to 2 units can be earned for use towards graduation and can be taken at the student's expense)
- Additional credit recovery options may be available within the high school (based on course availability)
- Additional credit recovery options may be available after school hours (based on course availability)

ALTERNATIVE LEARNING

Students who are significantly behind their cohort group for graduation may be eligible for credit recovery options without having to have first failed the class. Being significantly behind their cohort group is defined as sophomores and juniors who are one year or more behind in credits and seniors who are a semester or more behind in credits. Students who are in this situation must work with their counselor to develop a plan of action to appropriately recover credits. This plan must be approved by the counselor and principal. These options can include:

- YES, Program at the Success Campus (based upon entrance criteria and availability)
- MOCAP and Correspondence Courses (up to 2 units can be earned for use towards graduation and can be taken at the student's expense)
- Missouri Options program (17 years old, one year behind in credits, availability)
- Other alternative options (Seniors or 4th-year students only)

VIRTUAL INSTRUCTION

Because virtual instruction can be an effective education option for some students, SCSD provides several virtual learning options through the MOCAP process.

Full-Time Enrollment in Hosted MOCAP Program
Students may now enroll full-time in MOCAP programs from virtual providers supported by public school districts, charter schools, or higher education institutions. Below is a list of MOCAP providers with hosts:

- At-home virtual program (Mehlville School District)
- Launch (Springfield School District)
- Missouri Connections Academy-MOCA (Sturgeon School District)
- Missouri Digital Academy-MOCD (Laquey School District)
- Missouri Virtual Academy-MOVA (Grandview School District)
- Mizzou Academy (University of Missouri)
- R7 Online Academy (Lee's Summit School District)
- SJSD Virtual Academy (St. Joseph School District)

Students who are interested in enrolling full-time in one of the above MOCAP programs should first notify SCSD of their intent to enroll virtually prior to contacting the host district. Once accepted into the virtual program, the host district will request educational records from SCSD.

Students who enroll in a hosted MOCAP program shall be considered an attendance center in the host school district. This means students will NO LONGER be enrolled in the City of St. Charles School District. **Please note students enrolled in full-time hosted MOCAP programs are not eligible to participate in MSHSAA activities and/or athletics.**

Full-Time Enrollment in **Non-Hosted** MOCAP Program
Students may enroll full-time in a non-hosted MOCAP program from virtual providers. The district will pay the costs of a virtual course only if the district has first approved the student's enrollment in the course as described in this policy.

Board Policy IGCD - Virtual Instruction

Students are eligible to enroll in non-hosted MOCAP programs if they have attended the previous semester in the St. Charles School District or other Missouri public/charter schools and have enrolled during the defined enrollment period. The enrollment period is defined as any time prior to the start of the semester or during the 10-day schedule change period immediately following the start of the semester. Below is a list of non-hosted MOCAP providers:

- Accelerate Education
- Acellus Academy
- Edison Learning
- Edmentum
- eDynamic
- EYC Academy
- Greenways Academy
- Imagine-Edgenuity
- Imagine-Odysseyware
- SchoolsPLP

The district is not required to provide students access to or pay for courses beyond the equivalent of full-time 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 non-hosted virtual courses 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.

Hybrid Learning

Hybrid in-person/virtual options are available by request and are subject to the same eligibility requirements listed above. The St. Charles School District has partnered with the LAUNCH program for hybrid learning. Please see the following website for further information and course lists. https://fueledbylaunch.com/

Question	Guidance
Does a student have to be enrolled in a Missouri public school district or charter school to enroll full-time in MOCAP?	Yes. A student must be enrolled in his or her district of residence prior to withdrawing to enroll in the host district.
Does a student have to maintain residence in Missouri while enrolled full-time in MOCAP?	Yes. The host district is responsible for ensuring the student maintains Missouri residency.
Does a student have to request full-time MOCAP enrollment in a hosted program through the district of residence?	No. A student who wants to enroll full-time in a MOCAP-hosted program should notify their district of residence of their intent to enroll in a full-time virtual program but is not required to seek the approval of the resident district. The student must be first enrolled in their district of residence to be eligible for MOCAP enrollment.
Does a full-time virtual student who was accepted by a full-time virtual provider need to go through a dis-enrollment process from their resident district?	Yes. Once a student has been accepted by a full-time virtual provider, the resident district or charter school must disenroll the student from its district, and the student will then be enrolled by the host district.
If a student with an Individual Education Plan (IEP) seeks to enroll as a full-time MOCAP student, what happens next?	● The student's IEP team must meet to decide enrollment. If the team decides that enrollment is appropriate, the student's MOCAP request may be approved. ● Next, the MOCAP provider (host district) will review the enrollment request and approve or deny it. ● Then, if the MOCAP provider approves the request, the host district will request a copy of the most recent evaluation report and current IEP from the resident district in accordance with the IDEA in-state transfer process. ● The full-time MOCAP virtual provider is responsible for the student's Free Appropriate Public Education (FAPE) under IDEA. ● The host district will claim any such students for attendance purposes; as a result, the host district will be responsible for providing IDEA Part B services to the students. ● The student's IEP governs their ESP; if their ESP includes services that cannot be provided through virtual methods the provider should pay the district for the services.

What if a student is dropped by a full-time virtual provider, but the family's residence has physically changed while the student was enrolled in the virtual program and he or she is no longer a resident student?	During the enrollment process, the virtual provider is responsible for notifying parents/guardians that physical address changes should be provided to the host district and the student's district of residence at the time of enrollment in the virtual program and updated with any changes. If the family cannot be immediately contacted, the former district of residence will engage in due diligence: ● To locate the child and family to notify them of educational options if they can be located; or ● To notify the Department of Social Services, including the Children's Division, in the event they cannot, in the same manner, the district would proceed with in-person students who do not notify the district of changes in residence Drop-outs will be assigned to the last district of residence for accountability purposes
Will a student who is participating in a full-time MOCAP program receive a diploma from the host district or the resident district?	The diploma will be awarded by the host district.
Can a student participating in a full-time MOCAP-hosted program in a host district participate in clubs, activities, and sports?	The Missouri State High School Activities Association's (MSHSAA) by-laws govern sports and activities. Students enrolled in full-time hosted MOCAP programs are not eligible to participate in MSHSAA activities and/or athletics

Student skills necessary for success in virtual courses

- Student has demonstrated time-management skills that indicate the student is capable of submitting assignments and completing course requirements without reminders
- Student has demonstrated persistence in overcoming obstacles and willingness to seek assistance when needed.
- Student has demonstrated verbal or written communication skills that would allow the student to succeed in an environment where the instructor may not provide nonverbal cues to support the student's understanding.
- Student has the necessary computer or technical skills to succeed in a virtual course.
- Student has access to technology resources to participate in a virtual course.
- Consideration of the student's previous success (or struggle) in virtual coursework.
- Please contact your school's counselor for more information about instruction courses.
- Please click here to the MOCAP (DESE) website.
- Please submit MOCAP requests directly to:
    - Sarah Scaturro, MOCAP Coordinator, sscaturro@stcharlessd.org AND
    - Dr. Earl Draper, Assistant Superintendent of Curriculum & Instruction, edraper@stcharlessd.org
- Additional information, forms, and procedures can be found at the following links:
    - IGCD
    - IGCD-AP(1)
    - IGCD-AF(1)
    - IGCD-AF(3)
    - IGCD-AF(4)
    - IGCDA-AF(1)

COLLEGE CREDIT

DUAL ENROLLMENT

Dual enrollment allows seniors to attend certain Missouri institutions complying with the Coordinating Board for Higher Education's Dual Credit Policy and earn college credit while still in high school. To be eligible for dual enrollment, a student must have earned at least 21 credits to participate in the first semester of their senior year. Students must also have earned 24 credits by the second semester and have a cumulative 2.5 GPA. The student is required to submit proof of enrollment for the approved college to the school counselor. The student is responsible for applying to the approved college and completing all the steps in the admission process required by the approved college. The student is required to submit final course grades to the counseling office at the end of each semester. Students interested in dual enrollment are advised that dual enrollment may affect MSHSAA eligibility.

DUAL CREDIT

SCSD is partnering with Missouri Southern State University to offer students who qualify for Free and Reduced Lunch an opportunity to receive up to 6 college credit hours per semester free of charge. Students who qualify must be enrolled in a dual credit course (Advanced College Credit: Composition, Advanced College Credit: Literature, Calculus, College US History 1 and 2, College Algebra, and Advanced Placement Biology) and qualify for Free and Reduced Lunch status during the current school year. Details regarding the process for obtaining credit will be provided through the counseling department and the instructor. Please contact your school counselor with any questions.

SCSD offers Project Lead the Way (PLTW) courses in the strands of Computer Science, Engineering, and Biomedical. These courses are eligible for dual credit at many colleges, including Missouri S&T. To qualify for dual credit with Missouri S&T, students must earn a stanine score of "6" or higher on the end-of-course exam or qualifying scale score that earns an achievement level of "accomplished" or "distinguished" and an A or B in the course. After successful completion of the PLTW course and Missouri S&T's course-specific criteria, students can apply for credit through Missouri S&T directly. For more information on dual credit through Missouri S&T, please visit their website at: https://pltw.mst.edu/undergraduate-credit/. For information on dual credit for PLTW courses through other colleges, please visit their websites directly or go to the PLTW website: https://pltw.org/experience-pltw/student-opportunities.

COURSE SELECTION/SCHEDULE CHANGE POLICY

The proper selection of courses is very important for all students and something that should be done with serious deliberation. To help in this process, students will receive course description guides well in advance of the time for which final choices must be made. It is strongly suggested that students confer with their counselors, other staff, and parents, and consider college and/or career plans carefully before making selections.

Changes in course selections will not be permitted after the school's master schedule has been entered into the computer due to the

- Need to teach students to assume responsibility, develop accountability, and develop severance.
- Extensive preparation the faculty and administration must make in hiring teachers, making assignments, balancing classes, preparing facilities, allocating budgets, and ordering books, supplies, and equipment.
- Efficient use of staff time.

The exceptions to this policy are: (1) when a scheduling mistake has been made (enrolled in an advanced course without the prerequisite); (2) when there is a need to balance classes; (3) when classes must be canceled due to insufficient enrollment; or (4) where it is determined by school officials that a circumstance exists whereby the student has little chance to realize success. Students are encouraged to spend ample quality time studying the course descriptions before deciding upon course selections.

Student/Parent requests to withdraw from a class within the first 10 days of each semester must be approved by the teacher and building principal. After the first 10 days of each semester, any withdrawals will result in a "WF" for the course. In an unusual situation (such as prolonged illness) a waiver of the "WF" grade will be considered by the building principal. A "WF" grade does configure into the cumulative grade point average.

PLEASE NOTE: There may be occasions when your counselor needs to switch a second-semester course selection with a first-semester selection to have a workable schedule. To achieve more flexibility and fewer scheduling conflicts, second-semester scheduling may result in students being scheduled for different teachers and/or periods than they had first semester in all-year classes.

High School Courses

Page #	Title of Course	Grade	Duration	Credit	Prerequisite
	Communication Skills				
31	English 1	9	Year	1	None
31	Honors English 1	9	Year	1	Yes
31	English 2	10	Year	1	None
31	Honors English 2	10	Year	1	Yes
31	English 3	11	Year	1	None
32	AP English Literature and Composition	11-12	Year	1	None
32	AP English Language and Composition	11-12	Year	1	None
32	English 4	12	Year	1	None
32	Advanced College Credit: Composition	12	Sem	0.5	Yes
32	Advanced College Credit: Literature	12	Sem	0.5	Yes
32	Speech 1	9-12	Sem	0.5	None
33	Speech 2	9-12	Sem	0.5	Yes
33	Debate	9-12	Sem	0.5	None
33	Creative Writing 1.0	10-12	Sem	0.5	None
33	Creative Writing 2	10-12	Sem	0.5	Yes
33	Journalism	9-12	Sem	0.5	None
33	Newspaper Production	10-12	Year	1	Yes
34	Yearbook Production	10-12	Year	1	Yes
34	English Career & College Readiness 9-10	9-10	Year	1	Yes
34	English Career & College Readiness 11-12	11-12	Year	1	Yes
	World Language				
34	French 1	9-12	Year	1	None
34	French 2	9-12	Year	1	Yes
34	French 3	10-12	Year	1	Yes
35	French 4	11-12	Year	1	Yes
35	AP French 5	12	Year	1	Yes
35	German 1	9-12	Year	1	None
35	German 2	9-12	Year	1	Yes
35	German 3	10-12	Year	1	Yes
35	German 4	11-12	Year	1	Yes
35	AP German 5	12	Year	1	Yes
36	Spanish 1	9-12	Year	1	None
36	Spanish 2	9-12	Year	1	Yes
36	Spanish 3	10-12	Year	1	Yes
36	Spanish 4	11-12	Year	1	Yes
36	AP Spanish 5	12	Year	1	Yes
	Social Sciences				
36	U.S. History	9	Year	1	None
36	Honors U.S. History	9	Year	1	Yes
37	World Civilization	10	Year	1	None
37	AP World History	10-12	Year	1	None
37	AP European History	10-12	Year	1	None
37	Government	11	Year	1	None
37	AP United States Government & Politics 1 & 2	11-12	Year	1	None
37	Cultural Geography	10-12	Sem	0.5	None
38	Law & You	11-12	Sem	0.5	Yes
38	Sociology	11-12	Sem	0.5	None
38	Psychology 1	11-12	Sem	0.5	None
38	Psychology 2	11-12	Sem	0.5	None
38	AP Psychology	11-12	Year	1	None
38	Contemporary Issues	11-12	Sem	0.5	None
38	Economics	11-12	Sem	0.5	None
39	College U.S. History 1 & 2	11-12	Year	1	Yes

Page #	Title of Course	Grade	Duration	Credit	Prerequisite
	Mathematics				
39	Algebra 1	9-12	Year	1	None
39	Algebra 1 Math Lab	9-12	Year	1	Yes
39	Geometry	9-12	Year	1	Yes
39	Geometry Lab	10-12	Year	1	Yes
39	Honors Geometry	9-10	Year	1	Yes
40	Algebra 2	10-12	Year	1	Yes
40	Algebra 2 Lab	10-12	Year	1	Yes
40	Honors Algebra 2	10-12	Year	1	Yes
40	Integrated Math 1	11-12	Sem	0.5	Yes
40	Integrated Math 2	11-12	Sem	0.5	Yes
40	AP Statistics	11-12	Year	1	Yes
40	College Algebra	11-12	Year	1	Yes
41	Honors Pre-Calculus	11-12	Year	1	Yes
41	Calculus	12	Year	1	Yes
	Science				
41	Physical Science	9-12	Year	1	None
41	Biology 1	10-12	Year	1	None
41	Honors Biology 1	9-10	Year	1	Yes
41	Chemistry	11-12	Year	1	Yes
42	Honors Chemistry	10-12	Year	1	Yes
42	Physics	11-12	Year	1	Yes
42	Honors Physics	11-12	Year	1	Yes
42	Biology 2– Human Biology	11-12	Year	1	Yes
42	Environmental Science	11-12	Sem	0.5	Yes
42	Forensic Science	11-12	Sem	0.5	Yes
42	Applied Science	11-12	Year	1	Yes
42	AP Chemistry	11-12	Year	1	Yes
43	AP Chemistry Lab	11-12	Sem	0.5	Yes
43	AP Physics	12	Year	1	Yes
43	AP Biology	11-12	Year	1	Yes
43	(PLTW) Principles of Biomedical Science	9-12	Year	1	None
43	(PLTW) Human Body Systems	10-12	Year	1	Yes
43	(PLTW) Medical Interventions	11-12	Year	1	Yes
43	Science Research	10-12	Year	1	Yes
44	(PLTW) Capstone Biomedical	12	Year	1	Yes
	Fine Arts				
44	Introduction to Art	9-12	Sem	0.5	None
44	World Art	9-12	Sem	0.5	Yes
44	Photography	11-12	Sem	0.5	None
44	Ceramics/Sculpture	9-12	Sem	0.5	Yes
44	Advanced Ceramics/Sculpture	10-12	Sem	0.5	Yes
45	Drawing/Painting	9-12	Sem	0.5	Yes
45	Advanced Drawing/Painting	10-12	Sem	0.5	Yes
45	Digital Art and Design	9-12	Sem	0.5	Yes
45	AP Art and Design	11-12	Year	1	No
45	Concert Band (Honors credit option)	9-12	Year	1	Yes
46	Jazz Ensemble/Jazz Band	9-12	Year	1	Yes
46	Orchestra (Honors credit option)	9-12	Year	1	Yes
46	Mixed Choir	9-12	Year	1	None
46	Concert Choir (Honors credit option)	9-12	Year	1	Yes
46	Treble Choir (Honors credit option)	9-12	Year	1	Yes
47	Chamber/Madrigal Choir (Honors credit option)	10-12	Year	1	Yes
47	Honors Music Theory	10-12	Year	1	Yes
47	Theatre 1 - Theatre History and Basics	9-12	Sem	0.5	None

Page #	Title of Course	Grade	Duration	Credit	Prerequisite
	Fine Arts				
47	Theatre 2 - Theatre History and Acting Basics	9-12	Sem	0.5	Yes
47	Actor's Studio - Advanced Public Performance	9-12	Sem	0.5	Yes
47	Technical Theatre - Adv. Study of Tech. Theatre	10-12	Sem	0.5	Yes
	Family and Consumer Science				
48	Fashion Design and Construction 1	9-12	Sem	0.5	None
48	Fashion Design and Construction 2	9-12	Sem	0.5	Yes
48	Fashion Design and Construction Studio	10-12	Sem	0.5	Yes
48	Fashion Design and Merchandising	11-12	Sem	0.5	None
48	Food Fundamentals	9-12	Sem	0.5	None
48	Advanced Foods: Regional & International Foods	9-12	Sem	0.5	Yes
49	Advanced Foods: Baking and Pastry Arts	9-12	Sem	0.5	Yes
49	Advanced Foods: Intro to Foodservice Industry	11-12	Sem	0.5	Yes
49	Child Development 1	9-12	Sem	0.5	None
49	Child Development 2	9-12	Sem	0.5	Yes
49	Career Pathways for the Teaching Profession 1	11-12	Sem	0.5	Yes
49	Career Pathways for the Teaching Profession 2	11-12	Sem	0.5	Yes
50	Human Relations	11-12	Sem	0.5	None
50	Housing and Interior Design	10-12	Sem	0.5	None
50	Health and Wellness	9-12	Sem	0.5	None
	Business Education				
50	Computer Applications	9-12	Sem	0.5	None
50	Introduction to Business	9-12	Sem	0.5	None
50	Visual Design Essentials	9-12	Sem	0.5	Yes
51	Video Editing and Broadcast Essentials	10-12	Sem	0.5	Yes
51	Digital Media	10-12	Sem	0.5	None
51	Web Design	10-12	Sem	0.5	None
51	Business Management	10-12	Sem	0.5	None
51	Accounting 1	10-12	Year	1	None
51	Accounting 2	11-12	Year	1	Yes
52	Broadcast Media	11-12	Year	1	Yes
52	Personal Finance	9-12	Sem	0.5	None
52	Entrepreneurship	10-12	Sem	0.5	Yes
	Cooperative Career Education/Marketing				
52	Cooperative Career Education	11-12	Year	1	None
52	Co-Op Career Education Internship	11-12	Year	1 - 2	Yes
	Computer Science				
53	(PLTW) Computer Science Essentials	9-12	Year	1	None
53	(PLTW) AP Computer Science Principles	10-12	Year	1	Yes
53	(PLTW) AP Computer Science A	10-12	Year	1	Yes
53	(PLTW) Cybersecurity	9-12	Year	1	None
	Marketing Education				
53	Marketing 1	10-12	Year	1	None
54	Sports and Entertainment Marketing	11-12	Sem	0.5	Yes
54	Social Media Marketing	11-12	Sem	0.5	Yes
54	Marketing Internship	11-12	Year	1 - 2	Yes
54	Merchandising Lab	11-12	Year	1 - 2	Yes
	Industrial Technology				
54	Home Repairs	9-12	Sem	0.5	None
55	Woodworking and Material Processes	9-12	Year	1	None
55	Advanced Woodworking and Material Processes	10-12	Year	1	Yes
55	Intro to Digital Tech	9-12	Sem	0.5	None
55	Live Video Production Technology	9-12	Year	1	None
55	Short Film Video Production Technology	9-12	Sem	0.5	None
55	(PLTW) Introduction to Engineering Design	9-12	Year	1	None

Page #	Title of Course	Grade	Duration	Credit	Prerequisite
	Industrial Technology				
56	(PLTW) Principles of Engineering	10-12	Year	1	Yes
56	(PLTW) Civil Engineering and Architecture	10-12	Year	1	None
56	PLTW Capstone Engineering	11-12	Year	1	Yes
56	Robotics	9-12	Sem	0.5	None
56	Advanced Robotics	10-12	Year	1	Yes
56	School Improvement Team	10-12	Sem	0.5	Yes
	Physical Education/ Health				
57	Physical Education	9-12	Sem	0.5	None
57	Health	9-12	Sem	0.5	None
57	Fitness Walking	9-12	Sem	0.5	Yes
57	Strength Training	9-12	Sem	0.5	Yes
57	Core Conditioning	9-12	Sem	0.5	Yes
57	Team Sports	9-12	Sem	0.5	Yes
57	Recreational Games	10-12	Sem	0.5	Yes
58	Outdoor Education	10-12	Sem	0.5	Yes
58	Sports Officiating	10-12	Sem	0.5	Yes
	General Electives				
58	Academic Lab	9-12	Sem	No Credit	None
58	Office Aide	12	Sem	No Credit	None
58	Teacher Aide	12	Sem	No Credit	None
58	Youth Engaged in Leadership and Learning	9	Sem	0.5	Yes
59	Advanced Leadership Lab	10-12	Sem	0.5	Yes
59	Gifted Exploration & Expansion	9-10 & 11-12	Sem	0.5	Yes
59	Students as Mentors	12	Sem	0.5	Yes
59	ACT Prep Skills	11-12	Sem	0.5	Yes
59	Career Opportunities	9-11	Sem	0.5	None
59	Live, Learn, Lead, Elite	9-12	Sem	0.5	None
	CAPS				
61	Global Business and Entrepreneurship	11-12	Year	3	Yes
61	Healthcare	11-12	Year	3	Yes
61	Technology Solutions	11-12	Year	3	Yes
	Lewis & Clark Career Center				
63	Precision Manufacturing Tech	11-12	1 or 2 Year	3	Yes
63	Welding	11-12	2 Year	3	None
63	Auto Collision Repair	11-12	2 Year	3	None
63	Auto Service Technology	11-12	2 Year	3	None
63	Power Equipment Technology	11-12	1 or 2 Year	3	Yes
64	Lewis and Clark Cyber Academy	11-12	1 or 2 Year	3	None
64	Computer Software Development 1 and 2	11-12	1 or 2 Year	3	None
64	Brick & Stone Masonry	11-12	2 Year	3	None
64	Building Trades	11-12	2 Year	3	Yes
64	Electrical Trades	11-12	2 Year	3	Yes
65	Heating, Ventilation & Air Conditioning (HVAC)	11-12	2 Year	3	None
65	Early Childhood Careers	11-12	1 or 2 Year	3	Yes
65	Health Occupations & Health Related Occupations	11-12	1 Year	3	Yes
65	Dental Assisting	11-12	1 or 2 Year	3	None
66	Applied Retail and Business Skills	11-12	1 or 2 Year	3	Yes
66	Law Enforcement	11-12	1 and/or 2 Year	3	Yes

College Admissions

MISSOURI PUBLIC FOUR-YEAR COLLEGES AND UNIVERSITIES

The Coordinating Board for Higher Education has approved the following MINIMUM-recommended 16-unit core curriculum requirements for admission to all public four-year colleges and universities. The recommended core curriculum will affect all first-time, full-time degree-seeking college students who graduate from high school.

- English/ Language Arts - 4 units
- Social Studies - 3 units
- Mathematics - 4 units*
- Science - 3 units
- Fine Arts - 1 unit
- Physical Education - 1 unit
- Health Education - 0.5 unit
- Personal Finance - 0.5 unit
- Electives - 7 units**

*Although high schools require 3 units of mathematics, it is recommended students take a math class each year throughout high school. It is particularly important for students to take a mathematics course in grade 12.
**At least two units of foreign language are highly recommended for college-bound students.

Colleges and universities are free to add additional requirements; which may be revised annually. Students should contact individual colleges to keep informed of any possible changes which may affect their admission status. Additionally, admissions officers at individual schools will focus on:

- Overall grade point average
- Results of ACT or SAT standardized test scores

COMMUNITY COLLEGE AND TECHNICAL SCHOOLS

Students who are preparing to attend a two-year college or technical school after graduation should include classes in communication skills such as speaking, writing, and computer technology. As many classes as possible should be taken to prepare the students for their areas of concentration. Utilize the ICAP to take courses specific to this path.

UNIVERSITY OF MISSOURI SYSTEM REQUIREMENTS

University of Missouri—Columbia
University of Missouri—Kansas City
University of Missouri—Rolla
University of Missouri—St. Louis

The University of Missouri has a uniform minimum admissions policy for freshman applicants to its four campuses. A student can prepare to enter any one of the campuses by taking the core courses described below. For certain programs, however, the student should take additional courses. Applicants who have completed the required core courses are admitted based on their rank in the high school class and performance on standardized examinations such as the American College Testing Program (ACT) or the Scholastic Aptitude Test(SAT).

Regular admission of first-time college students (entering freshmen) you must complete a minimum of 17 units (one unit = one year) of the following coursework:

- ENGLISH: 4
- MATHEMATICS: 4 Units
- SCIENCE: 3 Units
- SOCIAL STUDIES: 3 Units
- FINE ARTS: 1 Unit
- WORLD LANGUAGE: 2 Units

NATIONAL COLLEGIATE ATHLETE ASSOCIATION (NCAA) INFORMATION FOR STUDENT-ATHLETES

Many college athletic programs are regulated by the National Collegiate Athletic Association (NCAA), an organization founded in 1906 that has established rules on eligibility, recruiting, and financial aid. The NCAA has three membership divisions--Division 1, Division II, and Division III. Institutions are members of one or another division according to the size and scope of their athletic programs and whether they provide athletic scholarships. Students who are planning to enroll in college as freshmen and wish to participate in Division I or Division II athletics must be certified by the NCAA Initial-Eligibility Clearinghouse. The Clearinghouse was established as a separate organization by the NCAA member institutions in January 1993. The Clearinghouse ensures consistent interpretation of initial eligibility requirements for all prospective student-athletes at all member institutions.

Students who want to participate in Division 1 or Division II athletics should be aware of the requirements and certification process. For more information go to:

1. For D-1 and D-II eligibility requirements, such as core courses, test scores, and core GPA average, go to www.ncaa.org
2. For information on NAIA eligibility requirements go to www.playnia.org
3. For Junior College (NJCAA) eligibility requirements go to www.njaa.org

IMPORTANT: Some courses do not meet NCAA guidelines so contact your counselor for more information.

IMPORTANT: NCAA will NOT accept test scores on an official transcript. To have your scores sent directly to NCAA you need to put 9999 as a score recipient.

College Credit and AP Courses

College Composition 1 & 2 (3 credits each)
College U.S. History 1 & 2 (3 credits each)
Calculus (5 credits)
College Algebra (3 credits)
AP Biology (4 credits)

Advanced Placement Courses

The following Advanced Placement and college credit courses are available to students in our high schools, subject to enrollment numbers.

- AP English Language and Composition
- AP Literature and Composition
- AP World History
- AP European History
- AP Government and Politics
- AP Psychology
- AP Biology
- AP Chemistry
- AP Physics
- AP Statistics
- AP Spanish 5
- AP French 5
- AP German 5
- AP Art and Design
- AP Computer Science A
- AP Computer Science Principles

St. Charles School District highly encourages all Advanced Placement students to take the AP course exams.

College Credit and AP courses are rigorous courses that may entail summer reading requirements.

The Advanced Placement (AP) Program

The following information is provided by AP Central powered by College Board. For more information please visit www.apcentral.collegeboard.org.

The Advanced Placement® Program (AP) enables willing and academically prepared students to pursue college-level studies while still in high school. The AP Program develops college-level courses that high schools can choose to offer and corresponding AP Exams that are administered once a year.

Fast Facts

- AP courses are available in seven subject categories.
- Each AP course is modeled on a comparable introductory college course in the subject.
- Each course culminates in a standardized college-level assessment or AP Exam.
- AP Exams are given in May each year at testing locations all over the world.
- Schools must be authorized by the AP Course Audit to offer approved AP courses and use the "AP" designation.

Benefits

Taking AP courses and exams can help students:

- **Stand out on college applications.** AP courses on a student's transcript show that they've challenged themselves with the most rigorous courses available to them. And success on an AP Exam shows that they're ready for college-level coursework.
- **Earn college credit and/or skip introductory courses in college.** Most four-year colleges and universities in the United States—as well as many institutions in more than 100 other countries—grant students credit, placement, or both for qualifying AP Exam scores. Search credit policies by college.

How It Works

Teachers Design Their Own AP Courses

The AP Program does not supply syllabi for AP courses. We supply a detailed set of expectations about what content a college-level course in that subject should cover. AP teachers design their own syllabi with these standards in mind. (They can also choose to use existing, approved syllabi.) We review each course design through a process called the AP Course Audit before authorizing your school to call the course "AP." The fact that teachers design their own AP courses—within guidelines that ensure that each course meets standards for college-level instruction—makes AP flexible and accessible for students and schools.

AP Exams Assess Knowledge and Skills Learned in the Course

Each AP course concludes with an AP Exam. These assessments are designed by the same expert committee that developed the course. AP Exams are scored on a scale of 1 to 5 by college and university professors and experienced AP teachers. Many U.S. colleges offer credit for AP Exam scores of 3 or higher. The exams are administered at authorized schools and test centers. Most high schools that offer AP courses choose to administer AP Exams to their own students as well as external AP students. Schools that opt not to administer AP Exams can refer students to another AP testing location.
Learn how AP Exams are developed and scored.

Which Students Should Take AP?

All students who are willing and academically prepared to accept the challenge of a rigorous academic curriculum should be considered for admission to AP courses. College Board encourages the elimination of barriers that restrict access to AP courses for students from ethnic, racial, and socioeconomic groups that have been traditionally underrepresented in the AP Program. Schools should make every effort to ensure that their AP classes reflect the diversity of their student population. Certain AP courses have prerequisites. For example, students taking AP Physics 1 should have completed geometry and be taking Algebra 2 or an equivalent course. Check the individual course pages to see this information.

Imagine a classroom of students working together to solve real-world problems - students who are disappointed to hear the bell ring because they're so engaged in their work. Image a teacher who can focus more time and energy on inspiring students. This is what happens every day in PLTW classrooms.

Project Lead The Way (PLTW) is the nation's leading provider of science, technology, engineering, and math (STEM) programs. Through world-class curricula, high-quality teacher professional development, and outstanding partnerships, PLTW is helping students develop the skills needed to succeed in the global economy.
For more information about Project Lead the Way (PLTW) and the program sequences, please visit the website: http://www.pltw.org.

SCSD offers PLTW courses in Computer Science, Biomedical Science, and Engineering.
Students enrolled in PLTW courses can earn dual credit through many colleges and universities. Please visit https://www.pltw.org/experience-pltw/student-opportunities for more information.

Below is a list of PLTW courses offered within each pathway. Please refer to the course descriptions for specific information regarding prerequisites and credits.

PLTW Program	1st Course	2nd Course	3rd Course	4th Course
Engineering	Introduction to Engineering Design	Principles of Engineering AP Computer Science Principles Civil Engineering & Architecture	Principles of Engineering AP Computer Science Principles Civil Engineering & Architecture	Capstone Engineering
Biomedical Science	Principles of Biomedical Science	Human Body Systems	Medical Interventions	Capstone Biomedical
Computer Science	Computer Science Essentials	Cybersecurity AP Computer Science Principles	AP Computer Science Principles AP Computer Science A	AP Computer Science A

A+ Schools Program

Both St. Charles High School and St. Charles West High School have been designated by the Department of Elementary and Secondary Education as A+ Schools. This program provides scholarship funding to eligible high school graduates who meet the A+ criteria and then attend a participating public community college, vocational/technical school, or certain private vocational/technical schools in the state of Missouri. Funding provided by this program can be applied to tuition and some general fees but is subject to legislative appropriation.

To gain eligibility upon graduation, students must attend an A+ designated school for 2 years before graduation, maintain a 95 percent attendance record, maintain a 2.5 grade point average, exhibit a record of good citizenship, complete 50 hours of unpaid tutoring and/or mentoring, and have achieved a score of proficient or advance on the Algebra I EOC or a higher level DESE approved end-of-course exam in the field of mathematics. If a student meets all of the eligibility requirements for their high school graduating class except the EOC exam requirement, they may establish eligibility by achieving a combined ACT math sub-score and high school GPA per the following scale: a 17+ math sub-score with a 2.5+ GPA, a 16+ math sub-score with a 2.8+ GPA, or a 15+ math sub-score with a 3.0+ GPA.

To enroll in the A+ program, students must enter into a written agreement with their home school. Enrollment forms can be found in the office at either high school. For questions, please contact the A+ office at either school.

Achieve the Missouri Seal of Biliteracy

The City of St. Charles School District will recognize students who are proficient in two or more languages.

Requirements:
Students who demonstrate proficiency in English and one or more world languages will be eligible to receive this honor.

- An overall GPA of 3.0 in English Language Arts (ELA) for the Seal of Biliteracy or an overall GPA of 4.0 in ELA for the Distinguished Seal of Biliteracy
- A score of proficiency or advanced in ELA on a district-approved standardized assessment (such as the English II EOC or the English component of the ACT)
- A score of proficiency on an assessment aligned with the American Council of the Teaching of Foreign Languages Proficiency guidelines (such as the AP exam or another similarly aligned assessment-APPLL/other test)
- A demonstration of sociocultural competence as it relates to English and a language other than English. A community service project utilizing both languages (agreed upon between you and your world language teacher)

Benefits of earning a SoBL:

- Immediate and accurate information for employers about students' skills in multiple languages
- Earn college credit at State Universities – some who have already announced the award are
    - Missouri State (Springfield): 12 hours
    - Missouri Southern State (Joplin): 12 hours
    - University of Central Missouri (Warrensburg): 12 hours
- Endorsement and recognition of the work and achievement involved by companies such as
    - Ameren
    - Mastercard
    - Midwest BankCentre
    - St. Louis Regional Chamber of Commerce

Start preparing now:

- Study for your English II EOC during your sophomore year OR prep for your ACT English section
- Sign up for the 3rd or 4th year of your chosen world language
- Information is available through the counseling office on the community service components and the options for testing world language proficiency

What's New
2025-2026

NEW COURSES

- Entrepreneurship
- Social Media Marketing
- School Improvement Team

COURSE CHANGES

Previous Course Title	New Course Title
Creative Graphic Design	Digital Art and Design
AP Studio Art	AP Art and Design
Business Applications	Computer Applications
Digital Video	Video Editing and Broadcast Essentials
Visual Design	Visual Design Essentials
Design & Machine Processes	Woodworking & Material Processes
Advanced Design & Machine Processes	Advanced Woodworking & Material Processes
Graphic and Electronic Media	Intro to Digital Tech
Engineering Design and Development	PLTW Capstone Engineering
PLTW Biomedical Innovations	PLTW Capstone Biomedical

COURSES AVAILABLE TO FRESHMAN

Students must meet the required prerequisites for some courses as specified in the course descriptions.

Communication Arts
English 1
Honors English 1

Social Studies
U.S. History
Honors U.S. History

Mathematics
Algebra 1
Algebra 1 Math Lab
Geometry
Honors Geometry

Science
Physical Science
Honors Biology

Physical Education
Physical Education
Health
Fitness Walking
Strength Training
Core Conditioning
Team Sports

World Language
French 1
French 2
German 1
German 2
Spanish 1
Spanish 2

Fine Arts
Introduction to Art
World Art
Ceramics/Sculpture
Drawing/Painting
Digital Art and Design
Concert Band
Jazz Band
Orchestra
Mixed Choir
Treble Choir
Concert Choir
Theatre 1
Theatre 2
Actor's Studio

Practical Arts
Fashion Design and Construction 1
Fashion Design and Construction 2
Food Fundamentals
Adv. Foods: Baking and Pastry Arts
Adv. Foods: Regional & International Foods
Child Development 1
Child Development 2
Health and Wellness
Computer Applications
Introduction to Business
Visual Design Essentials
(PLTW) Computer Science Essentials
(PLTW) Cybersecurity
Home Repairs
Woodworking and Material Processes
Intro to Digital Tech
Live Video Production Technology
Short Film Video Production Technology
(PLTW) Introduction to Engineering Design
Robotics

Electives
Speech 1
Speech 2
Debate
Journalism
English Career & College Readiness 9-10
(PLTW) Principles of Biomedical Science
Academic Lab
Youth Engaged In Leadership & Learning
Career Opportunities
Live, Learn, Lead, Elite
Personal Finance (Required Course)

COURSES AVAILABLE TO SOPHOMORES

Sophomores may select from any courses listed for freshmen and any additional courses listed below so long as prerequisites have been met.

Communication Arts
English 2
Honors English 2
Creative Writing 1

Social Studies
World Civilization
AP World History
AP European History

Mathematics
Geometry Lab
Algebra 2
Algebra 2 Lab
Honors Algebra 2

Science
Biology
Honors Chemistry

Physical Education
Recreational Games
Outdoor Education
Sports Officiating

World Language
French 3
German 3
Spanish 3

Fine Arts
Adv. Ceramics/Sculpture
Adv. Drawing/Painting
Chamber/Madrigal Choir
Honors Music Theory
Technical Theatre

Practical Arts
Fashion Design and Construction Studio
Housing & Interior Design
Digital Media
Video Editing and Broadcast Essentials
Web Design
Business Management
Accounting 1
Entrepreneurship
(PLTW) AP Computer Science Principles
(PLTW) AP Computer Science A
Marketing 1
Adv. Woodworking and Material Processes
(PLTW) Principles of Engineering
(PLTW) Civil Engineering Architecture
Advanced Robotics
School Improvement Team

Electives
Creative Writing 2
Cultural Geography
Newspaper Production
Yearbook Production
(PLTW) Human Body Systems
Science Research
Advanced Leadership Lab

COURSES AVAILABLE TO JUNIORS

Juniors may select from any courses listed for freshmen and sophomores and any additional courses listed below so long as prerequisites have been met.

Communication Arts

English 3
AP English Lit and Comp
AP Lang and Comp

Social Studies

Government
AP Psychology
College U.S. History 1 & 2
AP U.S. Government

Mathematics

Integrated Math 1 & 2
College Algebra
AP Statistics
Honors Pre-Calculus

Science

Chemistry
Physics
Honors Physics
Biology 2 - Human Biology
Environmental Science
Applied Science
Forensic Science
AP Chemistry/AP Chemistry Lab
AP Biology
AP Physics
(PLTW) Medical Interventions

World Language

French 4
German 4
Spanish 4

Fine Arts

Photography
AP Art and Design

Practical Arts

Fashion and Design Merchandising
Adv. Foods: Intro to Foodservice Industry
Career Pathways for the Teaching Profession 1
Career Pathways for the Teaching Profession 2
Human Relations
Accounting 2
Broadcast Media
Sports and Entertainment Marketing
Social Media Marketing
Cooperative Career Education
Co-Op Career Education Internship
Marketing Internship
Merchandising Lab
(PLTW) Capstone Engineering
Lewis and Clark Courses
CAPS Courses

Electives

ACT Prep Skills
Law & You
Sociology
Psychology 1
Psychology 2
Contemporary Issues
Economics
English Career & College

COURSES AVAILABLE TO SENIORS

Seniors may select from any courses listed prior and any additional courses listed below so long as prerequisites have been met.

Communication Arts

English 4
Advanced College Credit: Composition
Advanced College Credit: Literature

Science

AP Physics
(PLTW) Capstone Biomedical

Mathematics

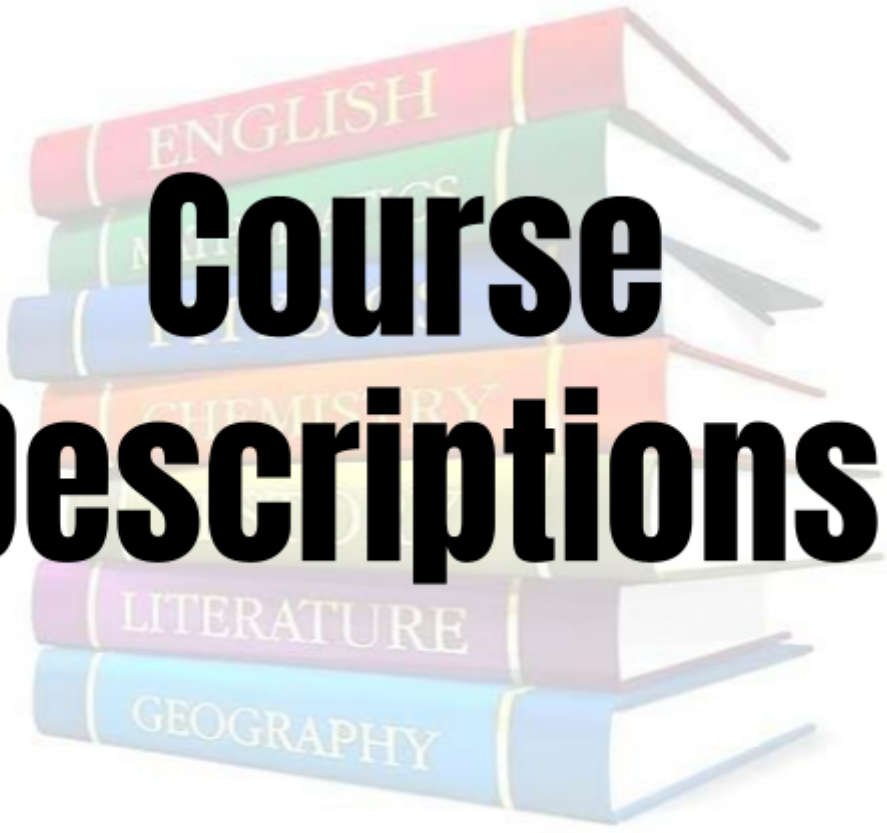
Calculus

World Language

AP French 5
AP German 5
AP Spanish 5

Electives

Office Aide
Teacher Aide
Students as Mentors



Course Descriptions

English Language Arts

ENGLISH 1 (English Language Arts)

Credit: 1
Grade: 9
Prerequisite: none
Description: This course is designed to lay the foundation for successful high school reading and writing and satisfies the English graduation requirement. English 1 will further the students' reading, writing, language, speaking, and listening skills. Reading instruction will utilize literary and informational texts. Writing may include instruction in narrative, informative, or argumentative techniques, and students will use research to construct formal essays. The study of language will encompass vocabulary acquisition and use as well as conventions of standard English. Speaking and listening will include both formal and informal presentations.

HONORS ENGLISH 1 (English Language Arts)

Credit: 1
Grade: 9
Prerequisite: permit to enroll
Description: This course is designed to lay the foundation for successful high school reading and writing and satisfies the English graduation requirement. Advanced English 1 will further the students' reading, writing, language, speaking, and listening skills. Reading instruction will utilize literary and informational texts. Writing may include instruction in narrative, informative, and argumentative techniques. Students will use research to construct a formal essay. The study of language will encompass vocabulary acquisition and use as well as conventions of standard English. Speaking and listening will include both formal and informal presentations. ***NOTE:*** *This course will exceed the expectations for English 1 with a more in-depth rigorous curriculum. The course will prepare students for success in Advancement Placement and college-level English courses.*

ENGLISH 2 (English Language Arts)

Credit: 1
Grade: 10
Prerequisite: none
Description: This course satisfies the graduation requirement and consists of instruction in world literature, writing, word study, research, and speaking/listening. Literature will include selections of fiction, nonfiction, poetry, drama, and mythology. The emphasis will be on the analysis and evaluation of text. Strategies for improving comprehension of fiction and nonfiction texts will be stressed. Key writing concepts include the study of stylistic devices, multiple modes of discourse, and evaluation of argumentation. Students will produce analytical, expository, and persuasive essays and a research paper. Students will evaluate various types of media. Students will continue to strengthen their vocabulary., This course will contain formal and informal speaking and listening opportunities. Students will be required to take an End of Course (EOC) exam provided by the state of Missouri at the completion of English 2.

HONORS ENGLISH 2 (English Language Arts)

Credit: 1
Grade: 10
Prerequisite: permit to enroll
Description: This course satisfies the graduation requirement and consists of instruction in literature, nonfiction, writing, language study, research, and speaking and listening. Literature will include selections of fiction, nonfiction, poetry, and drama. The emphasis will be on the analysis and evaluation of text. Key writing concepts include various modes of discourse and students will produce analytical, expository research, and persuasive essays. Students will evaluate various types of media, strengthen their vocabulary, and participate in informal and formal speaking and listening activities**.** Students will be required to take an "End of Course" exam provided by the State of Missouri at the completion of English 2**.**
NOTE*: This course will exceed the expectations for English 2 with a more in-depth and rigorous curriculum. The course will prepare students for success in Advancement Placement and college-level English courses.*

ENGLISH 3 (English Language Arts)

Credit: 1
Grade: 11
Prerequisite: none
Description: English 3 continues to expand and reinforce the students' skills of analysis and evaluation of literature, writing, word study, research, and speaking and listening. Reading nonfiction, fiction, drama, and poetry the students will examine key concepts including thorough knowledge of the writing process, organizational structure, meaning, aesthetic impact, and grammatical conventions. Students will use multiple interpretations of written works to evaluate each version compared to the primary source. Students will gather and integrate research; develop a variety of written and oral techniques appropriate to the task, purpose, and audience; and support claims while using effective evidence.

AP ENGLISH LITERATURE AND COMPOSITION (English Language Arts)

NOTE: This class will fulfill the requirement of the 3rd or 4th year of English. Students are expected to take the AP course exam.
Credit: 1
Grade: 11-12
Prerequisite: none
Description: This is a college-level course, which prepares students for the Advanced Placement Literature and Composition exam. Students should be aware of the rigor, intensity, and scope that this course will demand. This course will further develop students' abilities as skilled analysts of a broad range of prose written in a variety of periods, disciplines, and rhetorical contexts. Students will study, analyze, and write from a variety of literary genres. The main emphasis will be writing critical essays under time constraints with emphasis on point of view, imagery, figurative language, syntax, style, structure, and diction. These essays should demonstrate what is expected at the end of a college freshman course in English. Students will enhance vocabulary, grammar, and research skills as well as speaking and listening skills.

AP LANGUAGE AND COMPOSITION (English Language Arts)

NOTE: This class will fulfill the requirement of the 3rd or 4th year of English. Students are expected to take the AP course exam.
Credit: 1
Grade: 11-12
Prerequisite: none
Description: This is a college-level course, which prepares students for the Advanced Placement Language and Composition exam. Students should be aware of the rigor, intensity, and scope that this course will demand in developing students' abilities as skilled analysts of a broad range of prose written in a variety of periods, disciplines, and rhetorical contexts. The course emphasis is on nonfiction literature and students will focus on the writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. Students will compose a variety of modes and for a variety of purposes. Students will also enhance vocabulary, grammar, and research skills as well as speaking and listening skills

ENGLISH 4 (English Language Arts)

Credit: 1
Grade: 12
Prerequisite: none
Description: English 4 focuses on senior-level writing and reading skills in preparation for a postsecondary setting. Writing skills will include research, argumentation, coherent text development, audience, and purpose. Students will apply formal or informal tone as appropriate for the audience, task, and purpose through various writing and speaking activities. Reading skills will include comprehension, textual evidence, themes, key ideas, and details, as well as multiple interpretations of various works.

ADVANCED COLLEGE CREDIT: COMPOSITION (English Language Arts)

NOTE: *Students may earn three hours of college credit by successfully completing this course and remitting a fee to the university for the course.*
Credit: 0.5
Grade: 12
Prerequisite: none if taken for high school credit only; if taken for 3 credit hours from a university, students must have a 3.0 cumulative GPA and be permitted to enroll
Description: This course introduces students to writing for the university setting, by focusing on the elements of rhetoric that govern communication (audience, purpose, discourse community, and context). Writing and discussion will focus on rhetorical strategies necessary for writing, and thinking tools that university work will require. Students will also examine how to compose arguments and incorporate research methods into writing.

ADVANCED COLLEGE CREDIT: LITERATURE (English Language Arts)

NOTE: *Students may earn three hours of college credit by successfully completing this course and remitting a fee to the university for the course.*
Credit: 0.5
Grade: 12
Prerequisite: none if taken for high school credit only; if taken for 3 credit hours from a university, Advanced College Credit: Composition is required as well as the student must have a 3.0 cumulative GPA and permit to enroll
Description: Focusing on close reading and literary analysis, the course will offer theme-based literary analysis and discuss the role of English as a discipline. Analysis will focus on literature's distinctive and even privileged way of knowing and experiencing the world around us. The course will demonstrate that literature offers a broad window into vital social questions that affect humanity and reveal the powerful role literature and literary study play in the creation of the whole person.

CREATIVE WRITING 1.0 (English Language Arts)

Credit: 0.5
Grade: 10-12
Prerequisite: none
Description: Students will use original ideas and individuality to increase fluency and develop as writers. Students will experiment with prose and poetry formats to produce a significant body of writing including background research. Students will maintain and update a writer's portfolio; and brainstorm, edit, critique, and conference with the teacher and peers. Students will read examples by professional writers and expand their writing abilities with a variety of genres. Since this course requires several major writings, students should have a strong desire to express themselves through the written word.

SPEECH 1 (Elective)
Credit: 0.5
Grade: 9-12
Prerequisite: none
Description: Speech 1 is designed to help the student develop better speaking and listening skills. Students will be able to recognize the importance of effective speech communication in everyday life. Developing confidence and improving presentational skills will be explored through speech writing and the delivery of a variety of speeches. Students will learn to accept and give constructive criticism. A course in public speaking will better prepare students for required college oral communication courses.

SPEECH 2 (Elective)
Credit: 0.5
Grade: 9-12
Prerequisite: Speech 1
Description: Speech II students will utilize the public speaking techniques learned in Speech I. In addition, they will practice the art of storytelling for an elementary audience, create and perform an original radio broadcast, debate current issues, and perform a variety of specialized public speeches. A full year of public speaking will better prepare students for the rigor of college-level communication courses.

DEBATE (Elective)
Credit: 0.5
Grade: 9-12
Prerequisite: Speech 1 or permit to enroll
Description: Students will explore the role of debate in depth. Through participation in a variety of debate formats, students will understand the importance of constructing a valid argument, finding appropriate supporting evidence, and evaluating and refuting the arguments of their opponent. Students interested in pursuing a degree in law or politics or simply interested in improving their own personal discourse are highly encouraged to enroll in Debate.

CREATIVE WRITING 2 (Elective)
Credit: 0.5
Grade: 10-12
Prerequisite: Creative Writing 1.0
Description: Students will continue to develop original ideas and individuality to advance as writers. Students will enhance their prose and poetry skills to produce and prepare for the publication of individual, original writings including background research. Students will continue to maintain a writer's portfolio; and brainstorm, edit, critique, and conference with teacher and peers. Students will read examples by professional writers and expand their writing skills. Since this course requires several major writings, students should have a strong desire to express themselves through the written word. Students will learn the techniques of positive feedback and encouragement as an integral part of the writing process.

JOURNALISM (Elective)
Credit: 0.5
Grade: 9-12
Prerequisite: none
Description: This semester-long course is designed to provide the student with journalism skills as a pre-requisite necessary for enrollment in Newspaper Production or Yearbook Production. The course emphasizes basic instruction in journalistic writing, photography, and design. Topics covered include journalism law and ethics, news writing, interviewing, photojournalism, publication layout, and desktop publishing software.

NEWSPAPER PRODUCTION (Elective)
NOTE: *This course may be repeated for credit*
Credit: 1
Grade: 10-12
Prerequisite: Journalism recommended; permit to enroll
Description: This full-year course is designed to provide journalism students with advanced training in journalistic writing, photography, design, and advertising as they work to produce a news publication. Students will learn the roles and responsibilities of planning, working within a budget, and meeting deadlines as they coordinate the production of the news publication. Students will sell advertising, conduct interviews, and complete photography assignments, as well as explore journalism career opportunities.

YEARBOOK PRODUCTION (Elective)
NOTE: *This course may be repeated for credit.*
Credit: 1
Grade: 10-12
Prerequisite: Journalism and/or permit to enroll
Description: This full-year course is designed to provide journalism students with advanced training in journalistic writing, photography, design, and advertising as they work to produce the school's yearbook. Students will learn the roles and responsibilities of planning, working within a budget, and meeting deadlines as they coordinate the production of the yearbook. Students will sell advertising, conduct interviews, and complete photography assignments, as well as explore journalism career opportunities.

ENGLISH: CAREER COLLEGE READINESS (Elective)
NOTE: *This course may be repeated for credit.*
Credit: 1
Grade: 9-10
Prerequisite: permit to enroll
Description: This course is designed for students who are currently enrolled in English 1 and/or English 2 and who may need individualized support and instruction. English: College/ Career Readiness is an opportunity to improve the reading, writing, and language skills necessary to prepare for future coursework in English and success in a post-secondary setting.

ENGLISH: CAREER COLLEGE READINESS (Elective)
NOTE: *This course may be repeated for credit.*
Credit: 1
Grade: 11-12
Prerequisite: permit to enroll
Description: This course is designed for students who are currently enrolled in English 3 and/or English 4 and may need individualized support and instruction. English: College/ Career Readiness is an opportunity to improve the reading, writing, and language skills necessary to prepare for future coursework in English and success in a post-secondary setting.

World Language

FRENCH 1 (World Language)
Credit: 1
Grade: 9-12
Prerequisite: none
Description: Students will learn the primary skills necessary to develop a thorough basis of grammatical, literary, and oral understanding of the French language. The areas of reading, writing, speaking, and listening will be the cornerstones of the course, as students prepare to immerse themselves in the language and culture as the course progresses.

FRENCH 2 (World Language)
Credit: 1
Grade: 9-12
Prerequisite: French 1
Description: Students will further develop skills learned in the previous course. This course will focus on expanding skills in listening, speaking, writing, and reading. Students will learn more about descriptions, travel, cuisine, grammar, clothes, illnesses, culture, and history. French culture will become a larger focus as students continue to explore the influence that the French have had on the rest of the world.

FRENCH 3 (World Language)
Credit: 1
Grade: 10-12
Prerequisite: French 2
Description: Students will further develop skills learned in the two previous courses. Classes will mostly be spent conversing in French. Emphasis will be on expression both written and oral. Students will expand their studies in the areas of grammar, clothes, nature/environment, daily routines, as well as other topics. Studies will deepen the knowledge of French cultures, history, and geography with a particular focus on units over the French Revolution, French Impressionism, and French-speaking cultures.
Students will read poetry and some literature while furthering their ability to interpret these selections.

FRENCH 4 (World Language)
Credit: 1
Grade: 11-12
Prerequisite: French 3
Description: Students will further develop skills learned in the previous three courses. Classes will be conducted almost exclusively in French. Emphasis will be on French expression, both written and oral. Famous French authors will be studied along with the most advanced forms of French grammar. Students will also explore French politics, as well as those of other French-speaking countries. French cinema and French history will also be topics explored during the year.

AP FRENCH 5 (World Language)
Credit: 1
Grade: 12
Prerequisite: French 4
Description: Students, after an in-depth study of French grammar, will focus on Francophone culture, current events, media, film, theatre, and literature. Students will study classic and contemporary Francophone literature and use their language skills, both oral and written, to analyze each selection. This course will be conducted entirely in French.

GERMAN 1 (World Language)
Credit: 1
Grade: 9-12
Prerequisite: none
Description: Students will learn the primary skills necessary to develop a thorough basis of grammatical, literary, and oral understanding of the German language. The areas of reading, writing, speaking, and listening will be the cornerstones of the course, as students prepare to immerse themselves in the language and culture as the course progresses.

GERMAN 2 (World Language)
Credit: 1
Grade: 9-12
Prerequisite: German 1
Description: Students will further develop skills learned in the previous course. This course will focus on expanding skills in listening, speaking, writing, and reading. Students will learn more about descriptions, travel, cuisine, grammar, clothes, illnesses, culture, and history. German culture will become a larger focus as students continue to explore the influence that the Germans have had on the rest of the world.

GERMAN 3 (World Language)
Credit: 1
Grade: 10-12
Prerequisite: German 2
Description: Students will further develop skills learned in the two previous courses. The goals of this course imply increased competence in the four basic skills and a more systematic manner for understanding the history, geography, and culture of the country through the study of modern literature.

GERMAN 4 (World Language)
Credit: 1
Grade: 11-12
Prerequisite: German 3
Description: Students will further develop skills learned in the previous three courses. German IV places more emphasis on reading and understanding the spoken language of native speakers. Students will work with selections written by Germans and will increase their ability to use self-expression.

AP GERMAN 5 (World Language)
Credit: 1
Grade: 12
Prerequisite: German 4
Description: Students will continue their study of German culture, history, and society. In this course, students will be expected to read, write, and speak in German while using primary sources such as German literature, radio, and television in an effort to better understand German culture while strengthening communication skills both oral and written, Topics in the course may vary based upon the interests of students enrolled in the course.

SPANISH 1 (World Language)
Credit: 1
Grade: 9-12
Prerequisite: none
Description: Students will learn the primary skills necessary to develop a thorough basis of grammatical, literary, and oral understanding of the Spanish language. The areas of reading, writing, speaking, and listening will be the cornerstones of the course, as students prepare to immerse themselves in the language and culture as the course progresses.

SPANISH 2 (World Language)
Credit: 1
Grade: 9-12
Prerequisite: Spanish 1
Description: Students will further develop skills learned in the previous course. This course will focus on expanding skills in listening, speaking, writing, and reading. Students will learn more about descriptions, travel, cuisine, grammar, clothes, illnesses, culture, and history. Spanish culture will become a larger focus as students continue to explore the influence that the Spanish have had on the rest of the world.

SPANISH 3 (World Language)
Credit: 1
Grade: 10-12
Prerequisite: Spanish 2
Description: The emphasis shifts more toward reading and writing while maintaining and increasing oral skills. The student continues to learn new grammar structures and practices using these new skills in a variety of ways.

SPANISH 4 (World Language)
Credit: 1
Grade: 11-12
Prerequisite: Spanish 3
Description: The emphasis of this course continues to be more on reading and writing with important literature, observation and analysis of media presentations, writing paragraphs, and a review of major grammatical points. Conversational skills continue to be emphasized.

AP SPANISH 5 (World Language)
Credit: 1
Grade: 12
Prerequisite: Spanish 4
Description: This course introduces students to the study of Spanish and Latin American literature while continuing to enhance conversational and writing skills using the language. Students will participate in literary analysis for various readings of poems, short stories, and dramatic works of well-known Spanish and Latin American authors from different historical periods. Class discussions and assignments for this course will be entirely in Spanish.

Social Studies

U.S. HISTORY (Social Studies)
Credit: 1
Grade: 9 – required course
Prerequisite: none
Description: U.S. History is a study of our nation and its social, economic, and political development from Reconstruction to the present day. Emphasis is placed on the democratic advances made by the American people.

HONORS U.S. HISTORY (Social Studies)
Credit: 1
Grade: 9
Prerequisite: recommendation of an instructor to enroll
Description: The course is recommended for college-bound students who enjoy reading and discussion. The material is covered at an advanced level requiring research, analysis, and participation in class discussions and projects. Honors US History is a study of our nation and its social, economic, and political development from Reconstruction to the present time. Emphasis is placed upon Imperialism, the Great War, the Great Depression, World War II, the Cold War era, the 1980s, and the 21st century. This course is a continuation of 8th-grade American History that covers the Colonial period through the Civil War.

WORLD CIVILIZATION (Social Studies)

NOTE: Students may take A.P. World History or A.P. European History sophomore year in lieu of the World Civilization graduation requirement.
Credit: 1
Grade: 10 – required course
Prerequisite: none
Description: This course is a study of human development from Absolutism to present day. Special attention is focused on early world influences, political/social/economic revolutions, nationalism, imperialism, and global conflict.

AP WORLD HISTORY (Social Studies)

Credit: 1
Grade: 10-12
Prerequisite: none
Description: This year-long course is for students who enjoy reading and want to learn more about the history of areas other than the United States and Europe. This course covers the period from 1000 C.E. to the present with an emphasis on cultural, technological, and institutional change in a global context. The goal is to give students an understanding of the forces that have shaped the world today. The material is covered at a college level requiring research, analysis, and participation in class discussions and projects. At the end of the year, students may elect to take the AP Exam for college credit through the College Board. There is a charge for the exam. Students may take either A.P. World History or AP European History sophomore year in lieu of the World Civilization graduation requirement.

AP EUROPEAN HISTORY (Social Studies)

Credit: 1
Grade: 10-12
Prerequisite: none
Description: AP European History is a full-year course that investigates questions in European cultural, diplomatic, economic, intellectual, political, and social history. This course is recommended for college-bound motivated students who enjoy reading and discussion. The material is covered at a college level requiring research, analysis, and participation in class discussions and projects. At the end of the year, students may elect to take the AP Exam for college credit through the College Board. There is a charge for this exam. Students may take either A.P. European History or AP World History sophomore year in lieu of the World Civilization graduation requirement.

GOVERNMENT (Social Studies)

NOTE: Students may take A.P. Government and Politics junior year in lieu of the Government graduation requirement.
Credit: 1
Grade: 11 – required course
Prerequisite: none
Description: The history, institutions, branches, functions, electoral processes, and citizens' roles associated with the governments of the local area, the State of Missouri, and the United States are presented in this course. The course includes an emphasis on the rights and responsibilities of citizenship, as well as a study of the principles and provisions of the Missouri and US Constitutions.
The Constitution examinations and the course must be passed according to Missouri law in order for a student to receive a graduation diploma. Students will be required to take an "End of Course" exam provided by the State of Missouri at the completion of Civics.

AP UNITED STATES GOVERNMENT AND POLITICS 1 & 2 (Social Studies)

Note: Students may take AP U.S. Government and Politics junior year in lieu of the Government graduation requirement
Credit: 1
Grade: 11-12
Prerequisite: none
Description: This course will give students an analytical perspective on the government and politics in the United States. This course involves the study of constitutional underpinnings, civil liberties, and civil rights, political culture, and socialization, citizen participation and influence, political institutions, and policymaking that are the foundation of modern U.S. government and politics. The course includes a study of the principles and provisions of the Missouri and United States Constitutions. The Constitution examination(s) and the course must be passed according to Missouri law in order for a student to receive a graduation certificate. Students will be required to take an "End of Course" exam provided by the State of Missouri at the completion of AP United States Government and Politics. Students taking this class may participate in the national constitutional issues competition "We the People." At the end of the year, students may elect to take the AP Exam for college credit through the College Board.

CULTURAL GEOGRAPHY (Elective)

Credit: 0.5
Grade: 10-12
Prerequisite: none
Description: This course will discuss ideas, traditions, and ways of life around the world and how they differ widely from one country to another. Students will learn how some of these cultural differences can be traced to geography.

LAW & YOU (Elective)

Credit: 0.5
Grade: 11-12
Prerequisite: passed U.S. History and currently enrolled in Government
Description: This course is dedicated to empowering young people through law-related education. Students will learn practical information about the law, democracy, and human rights through strategies that promote problem-solving, critical thinking, cooperative learning, improved communication and conflict-resolution skills, and the ability to participate effectively in society.

SOCIOLOGY (Elective)

Credit: 0.5
Grade: 11-12
Prerequisite: none
Description: Sociology is the study of peoples' relationships and what results from them, such as crime, marriage, cults, etc. The course is helpful to those students entering the working world or preparing for college. It invites students to learn from each other and a variety of other sources.

PSYCHOLOGY 1 (Elective)

Credit: 0.5
Grade: 11-12
Prerequisite: none
Description: Psychology 1 is an introduction to the study of human behavior. This semester course begins by looking at the major approaches to studying human behavior. During this semester the student will examine how humans learn, think, and remember. The physiology of behavior is considered in the study of the nervous system, human states of consciousness (dreams, hypnosis, meditation...), and human awareness. The semester concludes with the study of human growth and development from infancy through early childhood.

PSYCHOLOGY 2 (Elective)

Credit: 0.5
Grade: 11-12
Prerequisite: none – Psychology 1 is not required to take Psychology 2 as they contain separate and distinct content
Description: Psychology 2 is a study of man's interpersonal relationships and adjustments in society from adolescence to old age. During the semester the student will explore personality types and theories including some individualized personality testing. The course further examines how man adapts to life's conflict/stresses and introduces the student to various aspects of psychological disturbance and mental breakdown - anxiety, phobias, depression, suicide, schizophrenia, chemical dependency, and personality disorders, among others.

AP PSYCHOLOGY (Social Studies)

Credit: 1
Grade: 11-12
Prerequisite: none
Description: The AP Psychology course is year-long and designed to introduce students to the systematic and scientific study of the behavioral 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. They also learn about the ethics and methods that psychologists use in their science and practice. Students are strongly encouraged to take the AP exam at the end of the course. There is a fee associated with the exam.

CONTEMPORARY ISSUES (Elective)

Credit: 0.5
Grade: 11-12
Prerequisite: none
Description: This course is designed to increase student interest in contemporary problems and issues. Students will use primary and secondary materials to form opinions and propose solutions to problems. Topics will include state and local issues as well as national and world. Students will complete research papers and participate in class discussions and debates.

ECONOMICS (Elective)

Credit: 0.5
Grade: 11-12
Prerequisite: none
Description: This course is a study of our system of production and distribution of goods and services, and the facilities such as money, banking, credit, labor unions, etc., which help up to get the things we want. Economic systems will be compared with an emphasis on "free enterprise."

COLLEGE U.S. HISTORY 1 & 2 (Social Studies)
University Designation: HSX-260-46 HISTORY OF THE US UNTIL 1865 HSX-261-46 HISTORY OF THE US SINCE 1865
Credit: 1
Grade: 11-12
Prerequisite: 3.0 cumulative GPA required; the recommendation of an instructor is required for enrollment
Description: College U.S. History is designed for the college-bound student and will provide an in-depth study into various aspects of our nation's history. Units to be studied include the Young Democracy, Sectionalism, Civil War and Reconstruction, Western Expansion, Industrial Revolution, and Twentieth Century Diplomacy. Stress will be placed on independent readings and class discussions based on the views of historical participants and historians. Students may earn three hours of college Social Science credit each semester by successfully completing the course and remitting a fee to the University.

Mathematics

ALGEBRA 1 (Math)
Credit: 1
Grade: 9-12
Prerequisite: none
Description: The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the earlier grades. Students will explore many examples of functions, compare key characteristics of these functions, and translate between graphical, numerical, and symbolic representations of them. They will create and solve equations and inequalities, and systems of equations involving linear and quadratic expressions, extend the laws of exponents to rational exponents and compare/contrast linear, exponential, and quadratic functions.

ALGEBRA 1 MATH LAB (Elective)
NOTE: *This unit of credit does not count towards the mathematics minimum credits required for graduation.*
Credit: 1
Grade: 9-12
Prerequisite: students must be enrolled simultaneously in Algebra 1 and have a teacher's recommendation to enroll
Description: This course is designed for students who are currently enrolled in Algebra 1 that may need additional time, support, and instruction to be successful in mastering the Algebra 1 concepts. The objectives of the Algebra 1Math Lab include the development of the foundation in Algebra and the remediation of basic skills.

GEOMETRY (Math)
Credit: 1
Grade: 9-12
Prerequisite: Algebra 1 and the recommendation of an instructor to enroll
Description: The focus of Geometry includes using critical thinking, perseverance, collaboration, problem-solving, and communication throughout the course to develop a deep understanding of logic and reasoning, angle relationships, perpendicular lines, parallel lines and planes, triangles, quadrilaterals, similar polygons, circles, construction, coordinate geometry, transformations, right triangle trigonometry, areas of 2D figures, and surface areas and volumes of 3D solids.

GEOMETRY LAB (Elective)
NOTE: *This unit of credit does not count toward the minimum credits required for graduation in mathematics.*
Credit: 1
Grade: 10-12
Prerequisite: student must be enrolled simultaneously in Geometry and have a teacher's recommendation to enroll
Description: This course is designed for students who are currently enrolled in Geometry and may need additional support, and instruction to be successful in mastering the Geometry concepts. The objectives of the Geometry Math Lab include the development of a foundation in Geometry and the remediation of basic skills.

HONORS GEOMETRY (Math)
Credit: 1
Grade: 9-10
Prerequisite: A or B in Algebra 1 and the recommendation of an instructor to enroll
Description: Honors Geometry is a rigorous proof-based course covering traditional Geometry topics at a deeper level. The course is designed to develop spatial reasoning, logic, and precise mathematical language. All units in this course will tie together geometric and previous advanced algebraic content knowledge such as systems of equations, factoring, and solving quadratic equations. The intent of this course is to prepare students for advanced coursework and mathematics study at the college level.

ALGEBRA 2 (Math)

Credit: 1
Grade: 10-12
Prerequisite: Algebra 1, Geometry, and the recommendation of an instructor to enroll
Description: Algebra 2 includes a more advanced study of the functions introduced in Algebra 1. The number system will be extended to include complex numbers. The course will include advanced operations, solving, graphing, and writing the following: systems of equations, polynomial, radical, exponential, logarithmic, and rational functions. The purchase of a graphing calculator is strongly recommended.

ALGEBRA 2 LAB (Elective)

NOTE: *This unit of credit does not count toward the minimum credits required for graduation in mathematics. It does count toward elective credits.*
Credit: 1
Grade: 10-12
Prerequisite: students must be enrolled simultaneously in Algebra 2 and have a teacher's recommendation to enroll
Description: This course is designed for students who are currently enrolled in Algebra 2 that may need additional time, support, and instruction to be successful in mastering the Algebra 2 concepts. The objectives of the Algebra 2 Math Lab include the development of the foundation in Algebra 2 and the remediation of basic skills.

HONORS ALGEBRA 2 (Math)

Credit: 1
Grade: 10-12
Prerequisite: A in Algebra 1, A or B in Geometry, and the recommendation of an instructor to enroll
Description: Honors Algebra 2 is a challenging course, which includes a more advanced study of the functions introduced in Algebra Students will also extend their knowledge of functions to include polynomial, rational, radical, exponential, and logarithmic functions. Students will work in-depth to model real-world situations, and analyze and graph these functions, in addition to solving equations over the set of complex numbers. Emphasis will be placed on the relationships between quadratic, polynomial, and rational functions, as well as using more technology to analyze these functions. The intent of this course is to prepare students for advanced coursework and mathematics study at the college level. The purchase of a graphing calculator is strongly recommended.

AP STATISTICS (Math)

Credit: 1
Grade: 11-12
Prerequisite: Algebra 1, Geometry, Algebra 2
Description: The AP Statistics course is a non-calculus-based college-level course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling, and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem-solving, and writing as they build conceptual understanding.

INTEGRATED MATH 1 (Math)

Credit: 0.5
Grade: 11-12
Prerequisite: Algebra 1, Geometry, Algebra 2
Description: Integrated Math 1 is a one-semester course in which students will build upon their Geometry and Algebra experience, and will introduce Trigonometry beyond that learned in a Geometry class. This class is designed to enhance students' mathematical skills in college and career readiness.

INTEGRATED MATH 2 (Math)

Credit: 0.5
Grade: 11-12
Prerequisite: Algebra 1, Geometry, Algebra 2
Description: Integrated Math 2 is a one-semester course in which students will learn multiple Problem Solving and Critical thinking techniques. This course emphasizes the teaching and learning of strategies that people will encounter in higher education and the workplace when solving problems. The student will develop specific problem-solving techniques such as systematic lists, matrix logic, looking for a pattern, using sub-problems, and working backward.

COLLEGE ALGEBRA (Math)

NOTE: Students may earn three hours of college credit by successfully completing this course and remitting a fee to the University.
University Designation: Math 10300-College Algebra
Credit: 1
Grade: 11-12
Prerequisite: If taken for 3 credit hours from a university, students must have a 2.5 cumulative GPA and be permitted to enroll
Description: College Algebra is a college-level course analyzing and solving polynomial, exponential, logarithmic, rational, piecewise, and absolute value functions, including but not limited to transformations, operations, compositions, and inverses. Other topics consist of rates of change, systems of equations and inequalities, matrix operations, and applications of discussed topics.

HONORS PRE-CALCULUS (Math)
Credit: 1
Grade: 11-12
Prerequisite: Algebra 1, Geometry, Algebra 2
Description: Pre-calculus is an advanced course emphasizing a wide variety of functions including polynomials, exponential, logarithm mic, rational, inverse, and trigonometric. Other topics include matrices, conic sections, complex and polar coordinates, sequences, and combinatorics. The intent of this course is to prepare students for Calculus and mathematics study at the college level. A graphing calculator is required.

CALCULUS (Math)
Note: Students may earn five hours of college credit with a minimum "C" average and remit a fee to the University
AP Credit: Students may also take the AP Calculus AB exam in May to receive college credit from their designated school depending on their score on the exam and the accepted score of the college/university.
University Designation: Math 1800-Analytic Geometry and Calculus 1
Credit: 1
Grade: 12
Prerequisite: C in pre-calculus and the recommendation of an instructor to enroll; 3.0 cumulative GPA required if taking for college credit
Description: This is an intensive full-year course in the calculus of a single variable. This course introduces differential and integral calculus. Topics will include an introduction to limits, continuity, derivatives, related rates, Newton's Method, the Mean-Value Theorem, Max-Min problems, the integral, the Fundamental Theorem of Integral Calculus, exponential and logarithmic functions, curve sketching, areas, volumes, and average values. Graphing calculators will be utilized throughout the course. A student may earn college credit for the successful completion of this course or by attaining the required score on the advanced placement test.

Science

PHYSICAL SCIENCE (Science)
Credit: 1
Grade: 9-12
Prerequisite: none
Description: Physical Science is an introductory science course designed to familiarize the student with concepts of matter, forces, and energy in the universe. Emphasis is on scientific literacy and hands-on investigation.

BIOLOGY 1 (Science)
Credit: 1
Grade: 10-12
Prerequisite: none
Description: Biology is the study of living systems and the interactions of organisms with their environment. This course consists of one semester of cellular biology with topics including body systems and cellular reproduction and one semester of ecology topics such as food webs and the interdependence of living organisms. Discussions, fieldwork, research, and laboratories will engage students in their learning. Students will be required to take an "End of Course" exam provided by the State of Missouri at the completion of Biology 1.

HONORS BIOLOGY 1 (Science)
Credit: 1
Grade: 9-10
Prerequisite: recommendation of an instructor
Description: This course is designed to prepare talented students for eventual enrollment in Advanced Placement Science while learning about life processes expressed in both the unity and diversity of life. The emphasis in this course is based on cellular and molecular processes, the relationship between structure and function in living systems, and ecological interactions. Students will be required to take an "End of Course" exam provided by the State of Missouri at the completion of Biology 1.

CHEMISTRY (Science)
Credit: 1
Grade: 11-12
Prerequisite: completion of Biology, Physical Science, and Algebra 1
Description: Chemistry is the study of the composition, properties, and structure of substances. Topics include atomic theory, the periodic table, and chemical reactions. Emphasis is on problem-solving and understanding the scientific method.

HONORS CHEMISTRY (Science)
Credit: 1
Grade: 10-12
Prerequisite: completion of Biology or Honors Biology, completion of Algebra 1, and the recommendation of an instructor
Description: Honors Chemistry is a challenging course covering traditional Chemistry topics more in-depth and at a faster pace than Chemistry. The intent of this course is to prepare students for eventual enrollment in Advanced Placement Science.

PHYSICS (Science)
Credit: 1
Grade: 11-12
Prerequisite: concurrent enrollment in Chemistry or Honors Chemistry and Algebra 2 or higher math course
Description: Physics is the study of forces and energy. This course will focus on motion and the causes of motion. There is an emphasis on laboratory activities and problem-solving.

HONORS PHYSICS (Science)
Credit: 1
Grade: 11-12
Prerequisite: Chemistry or Honors Chemistry, concurrent enrollment in Pre-calculus, and the recommendation of an instructor
Description: This course is designed to prepare students for AP Physics in their senior year. The first year will cover mechanics, which includes such topics as motion, forces, energy, and momentum. There is an emphasis on laboratory investigations and problem-solving.

BIOLOGY 2—HUMAN BIOLOGY (Science)
Credit: 1
Grade: 11-12
Prerequisite: completion of Honors Biology or Biology and Chemistry or Honors Chemistry (can be concurrently enrolled in Chemistry with instructor approval)
Description: This course will prepare students entering the medical career path. This course expands on the cellular level, expands on botany, as well as zoology. The human systems are studied extensively and are related to cat dissection. The curriculum will also cover forensics, ecology, anatomy, and physiology as well as microbiology.

ENVIRONMENTAL SCIENCE (Science)
Credit: 0.5
Grade: 11-12
Prerequisite: completion of Biology or Honors Biology and Chemistry (can be concurrently enrolled in Chemistry with instructor approval)
Description: Environmental Science is a one-semester class. Students will learn about the interactions between humans, animals, and the environment. Topics will include Environmental chemistry and environmental biology.

FORENSIC SCIENCE (Science)
Credit: 0.5
Grade: 11-12
Prerequisite: completion of Biology or Honors Biology and Chemistry (can be concurrently enrolled in Chemistry with instructor approval)
Description: Forensic Science is a one-semester class for students interested in careers in criminal justice. Topics include evidence collection, analysis, and evaluation.

APPLIED SCIENCE (Science)
Note: The course is not NCAA approved
Credit: 1
Grade: 11-12
Prerequisite: completion of Biology 1 and Physical Science; the recommendation of an instructor is required
Description: Applied Science students will study many of the same topics as General chemistry students with a reduction in the complexity of the mathematics involved. This course provides a survey of basic concepts and applications of chemistry with an emphasis on the role of chemistry in the real world. Discussion of these basic chemistry concepts and their application to everyday life will be explored.

AP CHEMISTRY (Science)
Credit: 1
Grade: 11-12
Prerequisite: completion of a Chemistry course, concurrent enrollment in AP Chemistry lab second semester
Description: AP Chemistry is a one-year course designed to prepare students for the AP Chemistry test. It is taught at the college level and is equivalent to the first two semesters of Chemistry for science majors. Topics include reaction kinetics, thermochemistry, and chemical equilibrium.

AP CHEMISTRY LAB

Credit: 0.5
Grade: 11-12
Prerequisite: enrollment in AP Chemistry
Description: AP Chemistry Lab is an introduction to science practices and techniques used in chemistry at a collegiate level.

AP PHYSICS (Science)

Credit: 1
Grade: 12
Prerequisite: completion of Honors Physics and concurrent enrollment in Calculus or permission of instructor
Description: This course will prepare students for the AP Physics C exam. Students who pass the exam can earn college credit hours. Students will continue their studies of mechanics, including rotation, as well as adding a calculus component.

AP BIOLOGY (Science)

Credit: 1
Grade: 11-12
Prerequisite: completion of Chemistry; concurrent enrollment in Chemistry
Description: This course is equivalent to a college-level introductory biology course. Student cultivates their understanding through inquiry-based investigations as they explore the following topics; evolution, cellular processes, energy and communication, genetics, information, ecology, and interactions.

SCIENCE RESEARCH (Elective)

NOTE: This unit of credit does not count toward fulfilling the minimum credits required for graduation in science. It does, however, count toward elective credit.
Credit: 1
Grade: 10-12
Prerequisite: recommendation of an instructor
Description: Each student chooses a topic of personal interest and investigates it in depth. The student may start with library research on the selected subject then the student will work with an expert mentor in a laboratory or other appropriate institution, to perform an experiment. It is expected that the student will present their findings in a written report and an oral presentation. Participation in a science symposium/fair in April is expected. Students must come up with an idea for the project and get the permission of a science instructor in that area to enroll. This course may be taken for more than one year if their search project can continue or be expanded.

(PLTW) PRINCIPLES OF BIOMEDICAL SCIENCE (Elective)

NOTE: *This unit of credit does not count toward fulfilling the minimum credits required for graduation in science. It does, however, count toward an elective credit.*
Credit: 1
Grade: 9-12
Prerequisite: none
Description: Students will explore concepts of biology and medicine to determine the factors that led to the death of a fictional person. While investigating the case, students will examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems. This is the introductory Project Lead the Way (PLTW) course in the Biomedical Science pathway.

(PLTW) HUMAN BODY SYSTEMS (Science)

Credit: 1
Grade: 10-12
Prerequisite: PLTW Principles of Biomedical Sciences
Description: Students experience real-world scenarios and cases to see medicine in action – as they diagnose and provide treatment and rehabilitation to patients at an outpatient center, keep clients safe and healthy on adventure medicine trips in remote locations, and work in a research center to design laboratory investigations to explore development and aging.

(PLTW) MEDICAL INTERVENTIONS (Science)

Credit: 1
Grade: 11-12
Prerequisite: PLTW Human Body Systems
Description: Students delve into activities like designing a prosthetic arm as they follow the life of a fictitious family and investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options, and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

(PLTW) CAPSTONE Biomedical (Elective)

Credit: 1
Grade: 12
Prerequisite: PLTW Medical Interventions
Description: PLTW Capstone is a capstone course for students who are completing any of PLTW's high school programs. It is an open-ended research course in which students work in teams to design and develop an original solution to a well-defined and justified open-ended problem. Teams draw on the knowledge, skills, and interests of each member, as they perform research to select, define, and justify a problem. Given this collaboration, team members leave the course with a broadened skillset and an appreciation for learning from their peers. After carefully defining the design requirements and creating multiple solution approaches, student teams select an approach, create, and test or model their solution prototype. As they progress through the problem-solving process, students work closely with experts and continually hone their organizational, communication, and interpersonal skills, creative and problem-solving abilities, and their understanding of the integration of processes such as the design process, experimental design, and the software development process. At the conclusion of the course, teams present and defend their original solution to an outside panel. PLTW Capstone is appropriate for upper grade-level students who are interested in any technical career path because the projects students work on can vary with student interest, and the curriculum focuses on collaborative problem solving and project management. Students should take PLTW Capstone as the final PLTW course, because it requires application of the knowledge and skills introduced during the PLTW foundation courses. This course is not designed to teach additional content, but to empower students to find resources—mentors, subject matter experts, research articles, peers, and teachers—to meet their needs, bolster their skills, and solve the problem they have selected.

Fine Arts

Art

INTRODUCTION TO ART (Fine Arts)

Credit: 0.5
Grade: 9-12
Prerequisite: none; course may NOT be taken concurrently with any other art course as it is a prerequisite for all other art courses
Description: This course is a foundation for all courses in the art department. Its purpose is to expose the student to basic art concepts and processes such as drawing, painting, sculpture, ceramics, etc. This course is a prerequisite for all intermediate courses in the art department (World Art, Drawing/Painting, Digital Art and Design, and Ceramics/Sculpture).

WORLD ART (Fine Arts)

Credit: 0.5
Grade: 9-12
Prerequisite: Introduction to Art
Description: This is a hands-on studio art course with a focus on Non-Western culture and art. It incorporates an appreciation for art history as well as an opportunity to learn how similar themes are present in artwork around the globe. Students will explore a variety of basic art media and techniques in both two-dimensional and three-dimensional art forms. Come travel the world and make some art!

PHOTOGRAPHY (Fine Arts)

Credit: 0.5
Grade: 11-12
Prerequisite: none
Description: Students will study digital photography as an art form. They will learn the technical skills necessary to successfully use DSLR cameras. Students will learn to produce photos that have proper exposure and composition.

CERAMICS/SCULPTURE (Fine Arts)

Credit: 0.5
Grade: 9-12
Prerequisite: Introduction to Art
Description: This course includes an exploration of basic sculptural and ceramic techniques, with an emphasis on design and sculptural composition. Students will learn to make art with a wide variety of materials and techniques such as plaster, wood, metal, clay, and mixed media.

ADVANCED CERAMICS/SCULPTURE (Fine Arts)

Credit: 0.5
Grade: 10-12
Prerequisite: Introduction to Art and Ceramics/Sculpture
Description: This course is a continuation of Ceramics and Sculpture. Students will experiment with hand-building and wheel-throwing ceramic forms. This course may be repeated for an elective credit.

DRAWING/PAINTING (Fine Arts)

Credit: 0.5
Grade: 9-12
Prerequisite: Introduction to Art
Description: This studio course gives students a thorough grounding in observational drawing and painting skills such as still life and portrait, expands students understanding of materials such as pencil, ink, acrylic and watercolor paint, and pastels, and gives students an understanding of effective visual communication through composition and concept while creating 2D artwork.

ADVANCED DRAWING/PAINTING (Fine Arts)

Credit: 0.5
Grade: 10-12
Prerequisite: Introduction to Art and Drawing/Painting
Description: This course is a continuation of Drawing/Painting. Students will continue to gain skills with a variety of materials and techniques while having increasing freedom to plan, design, and execute projects as they progress. This course may be repeated for an elective credit

DIGITAL ART AND DESIGN (Fine Arts)

Credit: 0.5
Grade: 9-12
Prerequisite: Introduction to Art
Description: This course is an introduction to creating art and graphic design using technology such as drawing tablets and design software. Students will learn about the applications of digital art in marketing and commercial design, how to translate their art skills into digital media, and how to effectively communicate visually with audiences through the application of the Principles of Design. This course may be repeated for an elective credit.

AP ART AND DESIGN (Fine Art)

Credit: 1
Grade: 11-12
Prerequisite: (per College Board) none, however, it is STRONGLY recommended that students have a minimum of 2 semesters of art with an A or A+ in order to be successful in this course.
Description: This is an intensive, college-level, year-long course preparing students to submit a portfolio for college credit. This is a highly student-directed course in which students plan, design, and complete artworks as part of an ongoing investigation into ideas, materials, and processes using practice, experimentation, and revision. This course may be repeated to fulfill all options for the AP portfolio exams. Please visit the Advanced Placement Art and Design website for more information.

INSTRUMENTAL MUSIC

CONCERT BAND (Fine Arts)

Credit: 1
Grade: 9-12
Prerequisite: enrollment in both semesters is required; approval of instructor required for enrollment
Note: Students are required to purchase supplies for this course
Description: The high school band is designed as a performing ensemble and strives to further refine the skills that students learn in middle school band. The emphasis during the first quarter is on marching band techniques. The emphasis during the second, third, and fourth quarters are on the development of the concert ensembles. This class is oriented towards performances, which include formal concerts, participation in civic and school-centered events, and various sorts of festivals. Students enrolled in this class will extensively explore music fundamentals and the development of instrumental music techniques and music as a form of artistic expression. A variety of literature will be studied and performed from different styles and periods of music history including original band music, orchestral transcriptions, and well-known and varied popular works for band. Students are encouraged to augment their training with private instructions, auditions for honors ensembles, and participate in solo and small ensemble festivals. The study of music in this class will benefit the student who wishes to pursue music as a career. Participation in this class will include performances, competitions, and rehearsals that occur outside the school day. Rental or purchase of your own instrument and supplies is required.
**Optional Honors Credit is available for grades 11-12. Course can only be taken for Honors Credit one time. The instructor will send out information regarding requirements for Honors during the first week of school.

JAZZ ENSEMBLE/JAZZ BAND (Fine Arts)

Credit: 1
Grade: 9-12
Prerequisite: dual enrollment in Concert/Marching band; instructor approval and/or demonstrate competency for guitar, bass guitar, and piano
Note: Students are required to purchase supplies for this course
Description: Students will be taught notation, phrasing, and improvisation within the jazz idiom. They will prepare and perform a variety of selections of traditional and contemporary jazz literature, develop improvisational skills, present several public performances, and participate in festivals. Members will attend occasional rehearsals in addition to regular rehearsals and are encouraged to audition for honors jazz ensembles. The recommended instrumentation includes saxophones, trumpets, piano, guitar, bass guitar, and drum set. Participation in this class will include performances, competitions, and rehearsals that occur outside the school day. Rental or purchase of your own instrument and supplies is required.

ORCHESTRA (Fine Arts)

Credit: 1
Grade: 9-12
Prerequisite: approval of instructor required for enrollment
Note: Students are required to purchase supplies for this course
Description: Students will rehearse and perform a variety of traditional and contemporary orchestral literature, and develop technical skills and musical ability. The orchestra will present several public performances and will also perform at the State Music Festival. The preparation and performance of solos and small ensembles are encouraged. Members of the orchestra are also encouraged to audition for the All-Suburban Orchestra and All-State Orchestra. Participation in this class will include performances and rehearsals that occur outside the school day. Participation in this class will include performances, competitions, and rehearsals that occur outside the school day. Rental or purchase of your own instrument and supplies is required.
**Optional Honors Credit is available for grades 11-12. Course can only be taken for Honors Credit one time. The instructor will send out information regarding requirements for Honors during the first week of school.

VOCAL MUSIC

MIXED CHOIR (Fine Arts)

Credit: 1
Grade: 9-12
Prerequisite: none
Description: Mixed Choir is a non-auditioned ensemble for students who want a choral/vocal experience and are interested in studying choral literature and learning more about the fundamentals of music and beginning vocal techniques. Students will study unison and 2-3-part choral literature from all historical and cultural periods and learn the fundamentals of reading music. Students will also study vocal technique and practice performance skills; which may include staging and movement. This choir may enter large ensemble and solo/small ensemble competitions at the district and state levels. Participation in this class will include performances and rehearsals that occur outside the school day.

CONCERT CHOIR (Fine Arts)

Credit: 1
Grade: 9-12
Prerequisite: approval of instructor required for enrollment
Description: Concert Choir is an auditioned ensemble for students who have some choral/vocal experience, and a solid foundation of fundamental reading skills. Students will study 3-4-part choral literature from all historical periods and learn the fundamentals of reading music. Students will also study vocal technique and practice performance skills; which may include staging and movement. This choir may participate in choral festivals and enter large ensemble and solo/small ensemble competitions at district and state levels. The course will culminate in a variety of performance-based assessments, some of which may occur outside of the school day. Participation in this class will include performances and rehearsals that occur outside the school day.
**Optional Honors Credit is available for grades 11-12. Course can only be taken for Honors Credit one time. The instructor will send out information regarding requirements for Honors during the first week of school.

TREBLE CHOIR (Fine Arts)

Credit: 1
Grade: 9-12
Prerequisite: approval of instructor required for enrollment
Description: Treble Choir is an auditioned ensemble of female voices. Students in this choir need to have some prior choral/vocal experience and a solid foundation of fundamental reading skills. Students will study challenging 3- and 4-part choral literature from all historical periods of music. Students will also study vocal technique and practice performing skills; may include staging and movement. This choir may enter large ensemble and solo/small ensemble competitions at the district and state levels. Participation in this class will include performances and rehearsals that occur outside the school day.
**Optional Honors Credit is available for grades 11-12. Course can only be taken for Honors Credit one time. The instructor will send out information regarding requirements for Honors during the first week of school. of school.

CHAMBER/MADRIGAL CHOIR (Fine Arts)

Credit: 1
Grade: 10-12
Prerequisite: approval of instructor required for enrollment
Description: Madrigal Choir is a small ensemble of auditioned students who have some choral/vocal experience, and a solid foundation of fundamental reading skills. Students will study challenging 4-part choral literature from all historical periods of music. Students will also study vocal technique and practice performing skills; which may include staging and movement. This choir may enter large ensemble and solo/small ensemble competitions at the district and state levels. This choir also performs in the community for civic organizations. Participation in this class will include performances and rehearsals that occur outside the school day.
**Optional Honors Credit is available for grades 11-12. Course can only be taken for Honors Credit one time. The instructor will send out information regarding requirements for Honors during the first week of school.

HONORS MUSIC THEORY (Fine Arts)

Credit: 1
Grade: 10-12
Prerequisite: approval of instructor required for enrollment
Description: The Honors Music Theory course will take the students through musical training in the areas of reading and analyzing notated music and aural skills. Students enrolled in Honors Music Theory will study the basic elements of music; melody, harmony, and rhythm, in music of the Common Practice period (1600-1900). Honors Music Theory will contain aural training, dictation, analysis, and compositional skills thus promoting total musical literacy.

THEATRE

THEATRE 1 – THEATRE HISTORY AND BASICS (Fine Arts)

Credit: 0.5
Grade: 9-12
Prerequisite: none
Description: Theatre 1 is designed to introduce students to the art of public performance. Students will gain confidence by performing original scenes for an audience of their peers. Through exploring a variety of performance styles such as pantomime, and improvisation students will learn how to create scenes and original characters. As beginning performers, they will also learn how to give and receive constructive criticism.

THEATRE 2 – THEATRE HISTORY AND ACTING BASICS (Fine Arts)

Credit: 0.5
Grade: 9-12
Prerequisite: Theatre 1
Description: In Theatre 2, students will build upon the performance skills developed in Theatre One. Students will perform a variety of both original and scripted scenes. Dramatic structure and theatre history are also explored through fun and interactive activities and scenes. Through self-reflection and performance evaluation, students will gain an appreciation for the art of public performance and its importance to our culture.

ACTOR'S STUDIO - ADVANCED PUBLIC PERFORMANCE (Fine Arts)

Note: Offered fall and spring semesters; the course can be taken an unlimited number of times
Credit: 0.5
Grade: 9-12
Prerequisite: Theatre 1 and 2; permit to enroll by form and/or audition; a student may enroll more than once as class activities will change each semester
Description: Actors Studio is an advanced acting class. The emphasis of this class is the creation of original theatrical work. Students will actively participate in playwriting, staging, directing, and acting. Through exploring every aspect of theatrical creation, students will produce and perform in an original theatrical performance. Students will also study global theatrical performance styles. This course will culminate in a public performance for an invited audience

TECHNICAL THEATRE - ADVANCED STUDY OF TECHNICAL THEATRICAL ELEMENTS (Fine Arts)

Note: Offered fall and spring semesters; the course can be taken an unlimited number of times
Credit: 0.5
Grade: 10-12
Prerequisite: Theatre 1 and 2; permit to enroll; a student may enroll more than once as class activities will change each semester
Description: Technical Theatre students will explore all of the backstage elements of theatrical production. Students will participate in the scenic, lighting, and costume design process. Properties mask and puppetry building will also be explored.
Students will understand how each technical element relates to play production. This course will culminate in the creation of a design portfolio containing all of these technical elements.

Practical Arts

FAMILY AND CONSUMER SCIENCE (FACS)

FASHION DESIGN AND CONSTRUCTION 1 (Practical Arts)
Credit: 0.5
Grade: 9-12
Prerequisite: none
Description: This is an entry-level course where students will be introduced to fashion and sewing. There will be a focus on the elements and principles of design and the role they play in fashion and selecting fabrics for sewing projects. Students will gain knowledge of how fibers and fabrics are created, as well as become familiar with the different types of fabric. Students will gain knowledge of a sewing machine, clothing care and repair of clothing items, and build basic clothing construction skills. Students will create a variety of sewing projects throughout the semester.

FASHION DESIGN AND CONSTRUCTION 2 (Practical Arts)
Credit: 0.5
Grade: 9-12
Prerequisite: Fashion Design and Construction 1
Description: This course is designed to extend skills gained in Fashion Design and Construction 1. Students will explore historical fashion, today's fashion, and personal fitting techniques. Creative construction techniques will also be applied, where students will expand upon their clothing construction knowledge. Students will be introduced to the fashion and textile industry, while still building their construction skills. As the course progresses projects will be tailored to meet the construction skills of each student.

FASHION DESIGN AND CONSTRUCTION STUDIO (Practical Arts)
Note: This course can be taken multiple times for credit
Credit: 0.5
Grade: 10-12
Prerequisite: Fashion Design and Construction 1 and 2; the recommendation of an instructor is required for enrollment
Description: The focus of this advanced class extends skills acquired in previous Clothing and Textile courses as well as allows students to demonstrate their knowledge of the fashion and textiles industry. Students will construct garments and sewing projects that require the use of advanced sewing techniques. This course is highly recommended for those wanting to explore career opportunities in the textiles, apparel, and design industry. Instructor permission to enroll.

FASHION DESIGN AND MERCHANDISING (Practical Arts)
Credit: 0.5
Grade: 11-12
Prerequisite: none
Description: This course is intended to introduce students to a variety of careers related to the fashion industry, as well as make them knowledgeable consumers within the appeal market. This course will cover entry-level business and fashion fundamentals. Topics will include the business functions of the fashion industry, including basic fashion concepts and marketing terminology, careers in the clothing and textile industry, fashion cycles, and the history of fashion. Students will also examine trending textiles, designers, the design process, and visual merchandising. This is not a clothing construction-based course (but you will be creating).

FOOD FUNDAMENTALS (Practical Arts)
Credit: 0.5
Grade: 9-12
Prerequisite: none
Description: This introductory semester course exposes students to the relationship between food science and nutrition principles for health and wellness. Activities include food selection, food preparation as well as the care and storage of
food. The main focus of the class is the study of food accomplished through written work and supported by lab experiences, class notes, written assignments, and evaluations. This class serves as the foundation for ALL upper-level Foods classes.

ADVANCED FOODS: REGIONAL AND INTERNATIONAL FOODS (Practical Arts)
Credit: 0.5
Grade: 9-12
Prerequisite: Food Fundamentals
Description: This semester-long course will continue with the principles introduced in Foods and Nutrition I and expand into creative cookery. Units on Regional Foods will expose students to different cultures and cuisines within our own country. Units on International Foods will expose students to multicultural themes fostering a greater appreciation for social differences. Exploring food choices in our society and the utilization of informed consumer practices will also be examined.

ADVANCED FOODS: BAKING AND PASTRY ARTS (Practical Arts)

Credit: 0.5
Grade: 9-12
Prerequisite: Food Fundamentals
Description: This semester-long course will continue with the principles introduced in Food Fundamentals and expand into creative baking. Units on quick bread, yeast bread, cakes, pies, and specialty desserts will help students understand the food science behind baking. Exploring food choices in our society and the utilization of informed consumer practices will also be examined.

ADVANCED FOODS: INTRODUCTION TO THE FOODSERVICE INDUSTRY (Practical Arts)

Credit: 0.5
Grade: 11-12
Prerequisite: Food Fundamentals, Baking, and Pastry Arts, and Regional and International Foods
Description: This semester course will continue with the principles introduced in the previous foods courses while expanding skills on a culinary level. Units like Introducing the Foodservice Industry will give a comprehensive look at culinary history and how different cuisines developed. Ingredient Preparation and Presentation will allow for creativity to develop in culinary artistry. This course will prepare students to go into the Culinary Industry as well as assist students to be able to create nutritious global cuisines. Instructor permission to enroll.

CHILD DEVELOPMENT 1 (Practical Arts)

Credit: 0.5
Grade: 9-12
Prerequisite: none
Description: Child Development 1 is an introductory course that explores human development from conception to age three. The course prepares individuals to understand children's physical, intellectual, emotional, and social growth and development. The students will participate in a variety of hands-on activities and will be able to observe the growth and development of children.
Students interested in parenting skills and careers related to children will find the class useful.

CHILD DEVELOPMENT 2 (Practical Arts)

Credit: 0.5
Grade: 9-12
Prerequisite: Child Development 1
Description: Child Development 2 is an instructional program that provides advanced study in child development and guidance; including the physical, social, emotional, and intellectual development of preschool-age children. The students will operate a preschool lab for one quarter where they will identify, plan, and demonstrate through examples best practices and developmentally appropriate activities to use when working with preschool-age children. Actual experience in supervising children provides the opportunity to explore careers related to child development and generate employment skills. This course may be eligible for college credit.

CAREER PATHWAYS FOR THE TEACHING PROFESSION 1 (Practical Arts)

Credit: 0.5
Grade: 11-12
Prerequisite: Child Development 1 and 2 are highly recommended to take before this course; instructor permission required
Description: This advanced course will enable students to experience occupational environments associated with child development and teaching careers involving the educational instruction of children. It examines the qualities and skills necessary for working effectively with students in educational settings. Students will receive practical experience with children in community preschools, daycare centers, and elementary & secondary school settings. This course is highly recommended for those wanting to explore careers working with children.

CAREER PATHWAYS FOR THE TEACHING PROFESSION 2 (Practical Arts)

Credit: 0.5
Grade: 11-12
Prerequisite: Career Pathways for the Teaching Profession 1; Child Development 1 &2 are highly recommended to take before enrolling in Career Pathways for the Teaching Profession 1 &2; instructor permission required
Description: This advanced course extends skills acquired in previous Child Development and Career Pathways for the Teaching Profession courses. The Career Pathways for the Teaching Profession focuses on the theory and practice of learning and teaching; the principles of educational psychology; the art of teaching; the planning and administration of educational activities; school safety and health issues; and the social foundations of education. It examines the qualities and skills necessary for working effectively with children in educational settings. This course focuses on educational policy regarding educational systems. Students will receive practical experience working with children in community preschools, daycare centers, and elementary, and secondary school settings. This course is highly recommended for those wanting to explore careers working in an educational setting.

HUMAN RELATIONS (Practical Arts)

Credit: 0.5
Grade: 11-12
Prerequisite: none
Description: This course will prepare individuals to understand the function of the family and the importance of strong family values, goals, cultures, and traditions. They will investigate family dynamics and how they are ever-changing in our global society. Families that spend time together are more equipped to handle a crisis if one arises. It allows individuals to study how heredity and environment play a crucial role in how they develop into the person they become. They will learn how to have a healthy dating relationship which in turn helps them establish a healthy marital relationship later in life. Learning to balance all of their responsibilities and maintain a healthy lifestyle will ensure they meet their goals and become productive members of society.

HOUSING AND INTERIOR DESIGN (Practical Arts)

Credit: 0.5
Grade: 10-12
Prerequisite: none
Description: This course combines the principles of interior design and the factors related to securing a living environment. The main focus will be to create and design interior spaces that are functional, aesthetically pleasing, safe, and secure. Additional influences such as current housing trends and architectural elements will be explored by examining universal design housing features that meet the needs of all people, including those with special needs. This course is recommended for those interested in interior design and the housing industry as well as those interested in having the knowledge to do minor improvements such as "do it yourself" projects on their own.

HEALTH AND WELLNESS (Practical Arts)

Note: This class fulfills the Health graduation requirement
Credit: 0.5
Grade: 9-12
Prerequisite: none
Description: This is an instructional program that prepares individuals to understand the related aspects of health and wellness with special emphasis on nutrition, emotional health, and physical health; the relationship of the health of an individual to the wellness of the family; the prevention of illness; and the basic care of the ill, including the elderly, the young child, and individuals with disabilities.

BUSINESS EDUCATION

COMPUTER APPLICATIONS (Practical Arts)

Note: meets computer course graduation requirement
Credit: 0.5
Grade: 9-12
Prerequisite: none
Description: This course provides students with hands-on experience in a variety of industry-leading software applications commonly used in business, education, and everyday life. The focus is on developing proficiency in essential tools such as word processing, spreadsheets, presentations, and internet applications. By the end of the course, students will be equipped with the skills needed to efficiently use computer applications for various tasks in professional, academic, and personal settings. No prior experience is required, making it suitable for beginners and individuals seeking to enhance their technological literacy.

INTRODUCTION TO BUSINESS (Practical Arts)

Credit: 0.5
Grade: 9-12
Prerequisite: none
Description: Get ready to dive into the fast-paced world of modern business. In this course, you'll explore the many dynamic functions that drive today's companies and industries. From navigating the challenges of a rapidly changing society to making impactful decisions in real-world business environments, this class will empower you with the knowledge and skills to thrive in the business world. Are you ready to discover how businesses really work and how YOU can make a difference? Let's get started!

VISUAL DESIGN ESSENTIALS (Practical Arts)

Credit: 0.5
Grade: 9-12
Prerequisite: Computer Applications or instructor approval
Description: Through an exciting activity-based curriculum, students will explore key image editing and illustration techniques. Students will learn how to use industry-leading software to manipulate photos, create graphic images, and design professional documents and files for various media platforms. Projects include creating posters, flyers, and banners that reflect today's industry standards. Additionally, students will be introduced to vector graphics expanding their design capabilities across both raster and vector-based applications.

VIDEO EDITING AND BROADCAST ESSENTIALS (Practical Arts)

Credit: 0.5
Grade: 10-12
Prerequisite: none
Description: Dive into the exciting world of video production with this hands-on curriculum designed to equip students with essential technical skills. Through a series of engaging projects, you'll explore video editing techniques using industry-leading software. Students will create a range of content, including commercials, how-to videos, short films, public service announcements (PSAs), and marketing campaigns. Additionally, you'll get an introduction to working with special effects, enhancing your storytelling abilities. Learn to work with state-of-the-art AV & broadcast equipment, including a variety of video cameras, microphones, etc…. No prior experience is necessary—just bring your creativity and enthusiasm.

DIGITAL MEDIA (Practical Arts)

Note: meets computer course graduation requirement
Credit: 0.5
Grade: 10-12
Prerequisite: none
Description: Explore the world of print design and layout with our dynamic, hands-on curriculum! Students will acquire key techniques to produce professional-quality documents for both print and digital media. Each lesson focuses on a specific task, enabling students to progressively build and refine their skills. Comprehensive guides accompany every activity, offering step-by-step instructions to ensure successful mastery of the technical aspects. This course is beginner-friendly, welcoming those eager to elevate their design abilities—no prior experience is required!

WEB DESIGN (Practical Arts)

Note: meets computer course graduation requirement
Credit: 0.5
Grade: 10-12
Prerequisite: none
Description: This course introduces the key principles and practices involved in designing visually appealing and functional websites. Students will cover topics from design theory and user experience (UX) to hands-on technical skills like HTML, CSS, and WYSIWYG (What You See Is What You Get) programs. Students will learn how to create websites that are both aesthetically pleasing and optimized for performance across various devices and platforms.

BUSINESS MANAGEMENT (Practical Arts)

Credit: 0.5
Grade: 10-12
Prerequisite: none
Description: Business Management is your first step toward mastering the skills needed to run a successful business! In this exciting class, you'll explore everything from how businesses are organized and the responsibilities they have to society, to the basics of economics and managing people. You'll dive into real-world concepts like international business, ethical decision-making, and effective communication. Whether you're looking to become a future leader or simply want to understand how businesses work, this course gives you the foundation to thrive in today's fast-paced business world!

ACCOUNTING 1 (Practical Arts)

Credit: 1
Grade: 10-12
Prerequisite: none
Description: Accounting is your gateway to mastering the financial backbone of every successful business! Through a blend of hands-on learning and cutting-edge computerized tools, you'll gain a deep understanding of how businesses track and manage their finances. Whether you're planning to go to college or jump straight into the workforce, this course equips you with essential skills for personal success and professional growth. Plus, if you dream of being an entrepreneur, accounting is the key to turning your ideas into reality by helping you manage cash flow, make smart financial decisions, and understand the numbers that drive your business forward!

ACCOUNTING 2 (Practical Art)

Credit: 1
Grade: 11-12
Prerequisite: Account 1
Description: Accounting 2 is a year-long, in-depth course designed for students eager to deepen their understanding of corporate accounting. Building on the fundamentals from Accounting 1, you'll dive into advanced topics like computerized journals, ledgers, financial statements, and tax procedures, all using the same tools professionals rely on. This course equips you with the essential skills to thrive in college business programs and prepares you for future careers in finance, accounting, or management. If you're serious about mastering the language of business, Accounting 2 is your next step toward success!

BROADCAST MEDIA (Practical Art)

Credit: 1
Grade: 11-12
Prerequisite: Video Editing & Broadcast Essentials and Instructor approval required
Description: This engaging year-long course covers various aspects of broadcasting, video editing, scriptwriting, and live streaming. Learn how to use multimedia technology and equipment found in top newsrooms while utilizing digital editing skills learned in previous computer classes. Throughout the course, students work individually and in teams to create a variety of projects, including live broadcasts to be shown to the school. Emphasis is placed on creativity, technical skills, storytelling, and collaboration.

PERSONAL FINANCE (Required)

Credit: 0.5
Grade: 9-12
Prerequisite: none
Description: 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.

ENTREPRENEURSHIP (Practical Arts)

Credit: 0.5
Grade: 10-12
Prerequisite: teacher/counselor approval; students may take this course more than once
Description: Entrepreneurship is your chance to turn big ideas into reality! In this dynamic course, you'll learn the ins and outs of starting and running your own business. From brainstorming ideas to building business plans and managing operations, you'll get real-world experience and the tools you need to become a successful entrepreneur. Whether you're dreaming of launching a startup, opening a local shop, or creating the next big brand, this course will guide you every step of the way. If you're ready to take charge of your future and make an impact, Entrepreneurship is the perfect place to start!

COOPERATIVE CAREER EDUCATION

Cooperative Career Education is a career education program based on the cooperative education method of instruction. Workplace readiness is the combined general knowledge, skills, and attitudes identified by employers as being fundamental for an individual's entry into employment. This program serves 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.

COOPERATIVE CAREER EDUCATION (Practical Arts)

Credit: 1
Grade: 11-12
Prerequisite: none
Description: Cooperative Career Education (CCE) is a full-year class for Juniors and Seniors who have or are seeking a career goal or interest. Students will cover a wide range of topics including occupational research, job-seeking skills, career preparation, money management, business applications, soft skills, effective communication skills, and the impacts of the global economy. The curriculum reflects current business trends and prepares students to meet the demands of the business world. Job shadowing is also a key unit that provides students with opportunities to see the workplace in action.

CO-OP CAREER EDUCATION INTERNSHIP (Practical Arts)

Credit: 1-2 units
Grade: 11-12
Prerequisite: must be dual-enrolled in Cooperative Career Education
Description: The Cooperative Career Education (CCE) Internship program is a workplace learning experience, which is an extension of the Cooperative Career Education classroom. Cooperative Career Education (CCE) training is designed for, and only for, students currently enrolled in the Cooperative Career Education (CCE) class. The CCE Internship provides on-the-job work experience that allows students to master academic and workplace skills. The work experience reinforces the importance of interpersonal skills, decision-making, problem-solving, critical thinking, and teamwork skills. Students must work 10 hours a week for one credit, and 20 hours per week for 2 credits (2 credit maximum)

COMPUTER SCIENCE

(PLTW) COMPUTER SCIENCE ESSENTIALS (Practical Arts)

Note: meets the computer graduation requirement
Credit: 1
Grade: 9-12
Prerequisite: none
Description: In Computer Science Essentials, students will start with visual, block-based programming and smoothly transition to text-based languages like Python®. They will apply computational thinking practices, enrich their vocabulary, and engage in collaborative projects, reflecting the methodologies of computing professionals. Ultimately, they'll develop products that tackle topics and challenges significant to them. Computer Science Essentials helps students create a strong foundation to advance to Computer Science Principles, Computer Science A, and beyond.

(PLTW) AP COMPUTER SCIENCE PRINCIPLES (Practical Arts)

Note: This course may be taken for practical arts, math, or science credit. For science or math credit, the request must be made at the beginning of the year to the student's counselor. Some colleges will not accept computer science as a math or science credit for admission. Be sure to check with your college(s) of choice before selecting this course as a math or science credit.
Meets the computer graduation requirement.
Credit: 1
Grade: 10-12
Prerequisite: PLTW Computer Science Essentials or instructor approval
Description: Students explore and become inspired by career paths that utilize computing, discover tools that foster creativity and collaboration, and use what they've learned to tackle challenges. Students create apps, automate tasks, find patterns in data, and interpret simulations. Students collaborate to create and present solutions that can improve people's lives. Students will have the option to take the AP exam at the end of the course. Please contact your preferred college(s) for more information on AP exam acceptance for college credit.

PLTW) AP COMPUTER SCIENCE A (Practical Arts)

Note: This course may be taken for practical arts, math, or science credit. For science or math credit, the request must be made at the beginning of the year to the student's counselor. Some colleges will not accept computer science as a math or science credit for admission. Be sure to check with your college(s) of choice before selecting this course as a math or science credit.
Credit: 1
Grade: 10-12
Prerequisite: PLTW AP Computer Science Principles or instructor approval
Description: This course provides students an introduction to college-level programming as well as the use of the Java programming language. This course covers essential topics for Java, as well as basic programming, such as variable creation and use, class creation and use, a variety of data structures and data storage. By the end, students will have a working understanding of Java and can create their own programs and apps. Students will have the option to take the AP exam at the end of the course. Please contact your preferred college(s) for more information on AP exam acceptance for college credit.

(PLTW) CYBERSECURITY (Practical Arts)

Credit: 1
Grade: 9-12
Prerequisite: none
Description: Students in Cybersecurity establish an ethical code of conduct while learning to defend data in today's complex cyberworld. Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

MARKETING EDUCATION

Marketing Education is designed to provide students with a foundation to immediately enter the workforce or to support future advanced coursework in marketing, business, entrepreneurship, and management. Students are expected to participate in DECA.

MARKETING 1 (Practical Art)

Credit: 1
Grade: 10-12
Prerequisite: none
Description: This course covers essential topics such as consumer behavior, advertising, market research, branding, and the marketing mix (Product, Price, Place, Promotion). Students will explore how businesses develop strategies to meet customer needs and compete in the global marketplace. Through interactive activities, case studies, and group projects, students will gain hands-on experience creating marketing plans, designing advertisements, and examining market research. The course also explores career opportunities in marketing, helping students develop critical thinking, creativity, and communication skills that are valuable in any business environment. DECA, "An Association of Marketing Students," is an integral part of the Marketing Program. It offers students the opportunity for leadership training, community service, travel to conferences, and competition on a district, state, and national level.

SOCIAL MEDIA MARKETING (Practical Art)

Credit: 0.5
Grade: 11-12
Prerequisite: Marketing 1
Description: Dive into the dynamic world of social media marketing in this engaging high school course! Students will explore the essential principles of marketing through popular social media platforms such as Instagram, TikTok, Facebook, and X. Throughout the course, learners will discover how to create compelling content, develop effective marketing strategies, and analyze audience engagement. Hands-on projects will allow students to design and execute their own social media campaigns, gaining practical experience in brand promotion and digital storytelling. By the end of the course, students will be equipped with the skills to leverage social media for personal branding, understand the impact of social media on consumer behavior, and prepare for future opportunities in the marketing field.

SPORTS AND ENTERTAINMENT MARKETING (Practical Art)

Credit: 0.5
Grade: 11-12
Prerequisite: Marketing 1 or concurrently enrolled with teacher/counselor approval
Description: The Sports and Entertainment Marketing course develops student understanding of the sports and entertainment industries, their impact on local communities, and products. Emphasis is placed on fundamental marketing concepts, career opportunities in sports and entertainment marketing, and methods used to segment sports and entertainment/event markets. Students will explore factors motivating consumers to participate in or attend sports and entertainment/events, pricing, branding, promotion, marketing-information management, and channel management. By the end of the course, students will gain valuable skills in communication, teamwork, and critical thinking, while understanding the business side of the industries they love. DECA, "An Association of Marketing Students," is an integral part of the Marketing Program. It offers students the opportunity for leadership training, community service, travel to conferences, and competition on a district, state, and national level.

MARKETING INTERNSHIP (Practical Art)

Credit: 1-2
Grade: 11-12
Prerequisite: Must be dual enrolled in a Marketing course (Marketing 1, Merchandising Lab, Sports and Entertainment, or Social Media Marketing)
Description: The Supervised Marketing Internship program is a workplace learning experience, which is an extension of the marketing education classroom. Supervised Marketing Internship training is designed for, and only for, students currently enrolled in an approved marketing course. The Supervised Marketing Internship program provides on-the-job work experience that gives students the opportunity to master academic and workplace skills. Students can make connections with real-world expectations in terms of accuracy of work, production, staying on task, and responsibility for work--all components that are emphasized in the marketing classroom setting. The work experience reinforces the importance of interpersonal skills, decision-making, problem-solving, critical thinking, and teamwork skills, which give students a forum to develop positive workplace experiences as they enter the workforce or prepare for continued education. The Supervised Marketing Internship program facilitates the transition from the classroom to the workplace. This program also gives students the opportunity to develop skills and attitudes not usually taught in other courses. Students will work a minimum of 10 hours a week for each credit hour (2 credit maximum) at an approved marketing job. DECA, "An Association of Marketing Students," is an integral part of the Marketing Program. It offers students the opportunity for leadership training, community service, travel to conferences, and competition on a district, state, and national level.

MERCHANDISING LAB (Practical Art)

Credit: 1-2
Grade: 11-12
Prerequisite: Marketing 1 or approval of instructor or counselor to enroll
Description: Retail Merchandising Lab gives the students an opportunity to handle cash/ credit operations, set up displays, prepare advertisements, use the computer to keep accurate accounting records, select and order merchandise to sell in the school store, as well as work with the public on a daily basis. Students must be honest, dependable, hardworking, and creative. DECA, "An Association of Marketing Students," is an integral part of the Marketing Program. It offers students the opportunity for leadership training, community service, travel to conferences, and competition on a district, state, and national level.

INDUSTRIAL TECHNOLOGY

HOME REPAIRS (Practical Arts)

Note: Students are required to purchase supplies for projects
Credit: 0.5
Grade: 9-12
Prerequisite: none
Description: Home Repairs provides the basic information needed to understand and use hand tools, power tools, fasteners, and assorted building materials for the repair and maintenance of your future home. You will gain knowledge of the structure of a home and the skills and techniques used in carpentry, plumbing, electricity, and other building trades. Proper maintenance of all housing systems will be stressed to prevent costly repairs. The lab fee covers a variety of materials for projects done in class.

WOODWORKING AND MATERIAL PROCESSES (Practical Arts)

Note: Students are required to purchase supplies for projects
Credit: 1
Grade: 9-12
Prerequisite: none
Description: Both boys and girls can learn the basic procedures for using common hand tools, portable power tools, and industrial-grade material processing tools. Each student is required to wear safety glasses in the lab. Problem-solving and decision-making are key components of this class. The first semester is reserved for learning safety procedures, materials, and hand and power equipment through bookwork, lectures, and producing an instructor-designed project. Second-semester students will develop and produce a project of their own design.

ADVANCED WOODWORKING AND MATERIAL PROCESSES (Practical Arts)

Note: Students are required to purchase supplies for projects
Credit: 1
Grade: 10-12
Prerequisite: Design and Machine or Home Repairs and the recommendation of an instructor
Description: This is an advanced lab class in which the student chooses from a variety of projects on an individual basis. These include, but are not limited to woodworking, school improvement projects, maintenance, landscaping, and building. About 95% of the student's grade will be based upon the actual construction of a series of projects. There are no specific required projects.
Students are to design and construct a project (s) of their own choosing. The total cost for the course will depend upon the amount of materials used. Students are required to pay for the materials to complete each project (unless it is a school improvement project).

INTRO TO DIGITAL TECH (Practical Arts)

Credit: 0.5
Grade: 9-12
Prerequisite: none
Description: This course is an introduction to many different technologies. Fun, interactive learning tools help promote science, technology, engineering, and math. This class offers design, visualization, and simulation capabilities so students can easily transition between 2D and 3D design environments, and fully experience their creative ideas digitally. The possibilities of software applications the students will be introduced to are engineering, architecture, video editing, and special effects. For further explanation see the Industrial Technology instructor. The lab fee covers materials for projects done in class.

LIVE VIDEO PRODUCTION TECHNOLOGY (Practical Arts)

Credit: 1
Grade: 9-12
Prerequisite: none
Description: This exciting class allows students to work in a live production environment similar to that of Cardinals or Blues television production. Students use teamwork and problem-solving skills to set up and run live game productions. Students will plan, film, and edit team intro videos, player profiles, and other video board content. They also get to display their own creative content on the video board during games and assemblies.

SHORT FILM VIDEO PRODUCTION TECHNOLOGY (Practical Arts)

Credit: 0.5
Grade: 9-12
Prerequisite: none
Description: This exciting class allows students to be creative with video projects ranging from commercials to music videos to film festival-quality short films. Students are in charge of projects from concept to completion. They develop storylines, characters, and scripts as well as plan shots, and film, and edit video, audio, and effects.

(PLTW) INTRODUCTION TO ENGINEERING DESIGN (Practical Arts)

Note: Students may need to purchase materials
Credit: 1
Grade: 9-12
Prerequisite: none
Description: Students will dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects like designing a new toy or improving on an existing product. They will work both individually and in teams to design solutions to a variety of problems using 3-D modeling software and use an engineering notebook to document their work. This is the introductory Project Lead the Way (PLTW) course in the Engineering pathway.

(PLTW) PRINCIPLES OF ENGINEERING (Practical Art)

Credit: 1
Grade: 10-12
Prerequisite: PLTW Intro to Engineering Design or instructor approval
Description: Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of materials and structures, automation, and motion. Students develop skills in problem-solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. Then, they apply what they know to take on challenges like designing a self-powered.

(PLTW) CIVIL ENGINEERING AND ARCHITECTURE (Practical Arts)

Credit: 1
Grade: 10-12
Prerequisite: none
Description: Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3-D architectural design software.

(PLTW) CAPSTONE Engineering (Practical Art)

Credit: 1
Grade: 11-12
Prerequisite: PLTW Principles of Engineering, PLTW Civil Engineering and Architecture or PLTW AP Computer Science Principles (must have taken at least 2 of the 3 of the prerequisite courses)
Description: PLTW Capstone is a capstone course for students who are completing any of PLTW's high school programs. It is an open-ended research course in which students work in teams to design and develop an original solution to a well-defined and justified open-ended problem. Teams draw on the knowledge, skills, and interests of each member, as they perform research to select, define, and justify a problem. Given this collaboration, team members leave the course with a broadened skillset and an appreciation for learning from their peers. After carefully defining the design requirements and creating multiple solution approaches, student teams select an approach, create, and test or model their solution prototype. As they progress through the problem-solving process, students work closely with experts and continually hone their organizational, communication, and interpersonal skills, creative and problem-solving abilities, and their understanding of the integration of processes such as the design process, experimental design, and the software development process. At the conclusion of the course, teams present and defend their original solution to an outside panel. PLTW Capstone is appropriate for upper grade-level students who are interested in any technical career path because the projects students work on can vary with student interest, and the curriculum focuses on collaborative problem solving and project management. Students should take PLTW Capstone as the final PLTW course, because it requires application of the knowledge and skills introduced during the PLTW foundation courses. This course is not designed to teach additional content, but to empower students to find resources—mentors, subject matter experts, research articles, peers, and teachers—to meet their needs, bolster their skills, and solve the problem they have selected.

ROBOTICS (Practical Arts)

Credit: 0.5
Grade: 9-12
Prerequisite: none
Description: This course is an intro to robotics. We will be utilizing various robotics kits and materials. The objective is to introduce the student to basic programming as well as problem-solving strategies. This course will involve students in the development, building, and programming of a robot. Students will work hands-on in teams to design, build, program, and document their progress. Topics may include motor control, gear ratios, torque, friction, sensors, program loops, decision-making, and timing sequences.

ADVANCED ROBOTICS (Practical Arts)

Credit: 1
Grade: 10-12
Prerequisite: teacher approval
Description: Students will dive deeper into the field of robotics using various and more advanced robotic platforms. Students will work hands-on in teams to design, build, program, and document their progress. Students will use the robots they design, build, and program to compete in class competitions.

SCHOOL IMPROVEMENT TEAM (Practical Arts)

Credit: 0.5
Grade: 10-12
Prerequisite: Woodworking & Material Processes or Home Repairs or Instructor approval
Description: In this hands-on class, students will apply the skills acquired in the Home Repairs and Woodworking courses to undertake a variety of meaningful projects throughout the school. These projects will not only contribute to enhancing the school environment but also empower students to take ownership of their creations. Through collaboration with peers and meetings with school principals and various groups, students will engage in planning, designing, and executing projects that address real needs within the school. This experience will provide valuable opportunities to develop essential skills in problem-solving, communication, and project management, preparing students for future challenges in both academic and professional settings. Join us to make a tangible impact on your school community while gaining practical experience that extends beyond the classroom!

Physical Education

PHYSICAL EDUCATION (Required)

Credit: 0.5
Grade: 9-12
Prerequisite: none
Description: This course fulfills the Physical Education .5 credit for graduation. The Physical Education program is designed to improve the students' 4 elements of fitness. Cardiovascular endurance, muscular strength, muscular endurance, and flexibility will all be tested. Emphasis is placed on active participation and positive social interaction during fitness and sports activities.

HEALTH (Required)

Credit: 0.5
Grade: 9-12
Prerequisite: none
Description: This course provides an overview of mental and emotional health, healthy relationships, diseases, nutrition, and physical fitness. Our Health program will enhance the well-being of each student by bringing awareness to the overall development of our students into healthy and active adults. The course will give students the necessary knowledge and skills to make responsible health choices.

FITNESS WALKING (Physical Education)

Credit: 0.5
Grade: 9-12
Prerequisite: Physical Education
Description: This course fulfills the Physical Education .5 credit for graduation. This course is designed for students to improve cardio-vascular fitness by walking and is completely activity-based. Various walking activities and assessments will be used throughout the class. Students will be expected to walk 2-3 miles per class period (8-12 laps on the track). This class is outdoors; therefore, students should be prepared to walk in any type of weather.

STRENGTH TRAINING (Physical Education)

Credit: 0.5
Grade: 9-12
Prerequisite: Physical Education
Description: This course fulfills the Physical Education .5 credit for graduation. In our Strength Training course, students will gain a general understanding of resistance training and functional movement concepts. The students will be given the opportunity to increase their knowledge and experience with movements that will improve overall physical fitness and emotional health for all students throughout their lives.

CORE CONDITIONING (Physical Education)

Credit: 0.5
Grade: 9-12
Prerequisite: Physical Education
Description: This course fulfills the Physical Education .5 credit for graduation. The Core Conditioning course will provide students the opportunity to participate in power walking, yoga, Pilates, plyometrics, resistance training, boot-camps, individual app workouts, kick-boxing, and other lifetime fitness activities. Each student will assess and evaluate their personal fitness levels to set personal goals toward developing and monitoring a healthy level of fitness and lifestyle.

TEAM SPORTS (Physical Education)

Credit: 0.5
Grade: 9-12
Prerequisite: Physical Education
Description: This course fulfills the Physical Education .5 credit for graduation. Team Sports will provide fitness concepts and an introduction to a variety of sports/activities. This course will include the basic fundamentals of sports/activities, including skills, rules, and terminology.

RECREATIONAL GAMES (Elective)

NOTE: This is a fee-based course. Contact counselor for cost.
Credit: 0.5
Grade: 10-12
Prerequisite: Physical Education
Description: This course is an elective course that introduces students to bowling, golf, and other recreational activities. Students will travel by bus to a local bowling alley and golf driving range to learn the fundamentals of the activities, including rules and terminology.

OUTDOOR EDUCATION (Elective)

Notes: Students may not repeat the course; students must purchase their own fishing license
Credit: 0.5
Grade: 10-12
Prerequisite: Physical Education
Description: This is an elective course that provides basic information on hunting ethics, regulations, and safety without using firearms, archery skills, fishing skills and ethics, and fish identification. This will include multiple in-class fishing trips, camping, and outdoor survival methods. Students will participate in the Missouri Boater Safety Education course. Students will have the opportunity to attain their lifetime boater safety certification.

SPORTS OFFICIATING (Elective)

NOTE: This is a fee-based course. Contact counselor for cost.
Credit: 0.5
Grade: 10-12
Prerequisite: Physical Education
Description: This is an elective course that focuses on the professional philosophy and professional requirements for officiating sports for athletic contests. Students will be provided with training and practical experiences in officiating. This course will cover officiating football, basketball, wrestling, volleyball, soccer, and baseball/softball. This is a fee-based course where students take a certification exam for a sport of their choice to be MSHSAA certified.

General Electives

ACADEMIC LAB (NO CREDIT)

Note: Students may only take one office aide, teacher aide, or academic lab per semester
Credit: 0
Grade: 9-12
Prerequisite: none
Description: Academic Lab is a non-credit course for students in grades 9-12. Students use this time to study and work on homework. Students can expect to have a set period during the Academic Lab for sustained silent reading.

OFFICE AIDE (NO CREDIT)

Note: Students may only take one office aide, teacher aide, or academic lab per semester
Credit: 0
Grade: 12
Prerequisite: none
Description: All senior students wanting to be either an Office Aide or a Teacher Aide must fill out an application and attach it to the enrollment form.

TEACHER AIDE (NO CREDIT)

Note: Students may only take one office aide, teacher aide, or academic lab per semester
Credit: 0
Grade: 12
Prerequisite: none
Description: All senior students wanting to be either an Office Aide or a Teacher Aide must fill out an application and attach it to the enrollment form.

YOUTH ENGAGED IN LEADERSHIP AND LEARNING (YELL) (Elective)

Credit: 0.5
Grade: 9
Prerequisite: permit to enroll
Description: The content of the youth engaged in learning and leadership lab course provides the foundation for students transitioning to high school to be leaders within their school community. The course will focus on promoting communication skills with peers and adults, developing leadership and teamwork skills that will impact the individual as well as the school community, learning skills to demonstrate personal responsibility and accountability, and completing school community service hours. These skills will be taught to help participants develop a student's voice, become helpers to their peers, and serve as role models and ambassadors to other students within the school community. Through a variety of learning experiences and the application of these skills, students will demonstrate their confidence in serving as a leader not only within the school community but the greater community as well.

ADVANCED LEADERSHIP LAB (ALL) (Elective)

Credit: 0.5
Grade: 10-12
Prerequisite: permit to enroll
Description: The content of the advanced leadership lab course provides students with the opportunity to become leaders within their school community. The course will focus on promoting communication skills with peers and adults, developing leadership and teamwork skills that will impact the individual as well as the school community, learning skills to demonstrate personal responsibility and accountability, and completing school community service hours. These skills will be taught to help participants develop a student's voice, become helpers to their peers, and serve as role models and ambassadors to other students within the school community. Through a variety of learning experiences and the application of these skills, students will demonstrate their confidence in serving as a leader not only within the school community but the greater community as well.

GIFTED EXPLORATION & EXPANSION (Elective)

Credit: 0.5
Grade: 9-12
Prerequisite: student must be identified as gifted through the district gifted identification protocol and have the signature of a teacher
Description: This course is an elective designed to provide an in-depth exploration of post-high school opportunities, research and develop possible solutions to real-world challenges, allow expression of their giftedness within and without the school environment, and enter into mentorship programs. Students will explore their strengths/ weaknesses, personality styles, and interests in relationships to post-high school. In demonstrating their individuality, they will develop a personal portfolio. After researching real-world challenges, they will propose and implement possible solutions. Advocacy skills will be developed and academic/scholarship competitions explored by interested students. Mentorship will be based on student passion. Program expectations will advance commensurate with student growth. The curriculum will be individualized based on student needs, interests, and other academic course expectations. Students are encouraged to enroll in both semesters to allow for the development of long-term projects such as putting into action a solution that correlates with a real-world challenge. Students must meet the criteria for identification as gifted as established by the state of Missouri. Students may take this course more than once for elective credit.

STUDENTS AS MENTORS (Elective)

Credit: 0.5
Grade: 12
Prerequisite: A+ eligible, permit to enroll
Description: Students desiring eligibility for a two-year tuition incentive to a community college or technical school, through the A+ Program, must have tutoring/mentoring experience for a minimum of 50 hours. Students are eligible for this tuition incentive if they meet the criteria. This course gives students applying for the tuition incentive the opportunity to obtain tutoring/mentoring skills and to work with identified At-Risk students at district elementary, middle, and high schools. Students must **be enrolled in A+ and eligible for an A+ scholarship to participate** in the Students as Mentors class. Course credit is pass/fail. To receive passing credit, students must complete at least 50 hours of service and obtain a passing evaluation from a cooperating teacher. Mandatory training will occur before the beginning of each semester.

ACT PREP SKILLS (Elective)

Credit: 0.5
Grade: 11-12 (or 10 with teacher/counselor recommendation
Prerequisite: English 1, English 2, Algebra 1, and Geometry
Description: ACT Prep's purpose is to develop students' ACT test-taking skills with the goal of increasing test scores. Improved ACT scores can help with college admission and scholarship opportunities. Students will spend one-quarter of the semester preparing for the Mathematics and Science tests and the other quarter preparing for the English and Reading tests. Students will switch teachers halfway through the semester. Students will think systematically and practice test-taking strategies required for solving typical problems found on the ACT exam.

CAREER OPPORTUNITIES (Elective)

Credit: 0.5
Grade: 9-11
Prerequisite: none
Description: Career Opportunities is an activity-based course designed for college and non-college-bound students. Information is given to help students make more educated decisions on their career paths. Students choosing career pathways that Lead to a college education will begin exploring college options, scholarship opportunities, and other types of college funding. All students will receive an overview of the six areas in the world of work. Additionally, each individual will receive a vocational interest and personality interest inventory to help determine a direction. Audio-visual aids, field trips, hands-on activities, guest speakers, and job shadowing are options to help students explore different careers.

LIVE, LEARN, LEAD ELITE (Elective)

Credit: 0.5
Grade: 9-12
Prerequisite: none
Description: Live, Learn, Lead, Elite is a class designed to give students the tools to become happy and successful in all aspects and stages of life. The focus is on building young adults who embody a strong character, helping them realize the relevance of living a life of character and the importance of living as a person of integrity.

St. Charles County CAPS provides high school students in St. Charles County with a pre-professional, innovative, and entrepreneurial education through career-oriented experiences that are both hands-on and real-world. St. Charles County CAPS students are immersed in professional environments, engaging in curriculum developed by industry professionals and program instructors - ensuring that what is taught in the classroom is relevant to the workforce. Learning is enhanced by project work direct from industry partners who engage to mentor students and ensure timely, accurate, and real project results.

Learning at St. Charles County CAPS is real-time, real-world, and hands-on. Emphasis is placed on developing professional skills, such as communication and collaboration, which employers deem highly important to individual success.

Students attend the CAPS program for half of their school day and the other half is at their home school. The morning CAPS session is from 7:30 AM to 10 AM and the afternoon session is from 11:30 AM - 2 PM. Students who participate in St. Charles County CAPS must provide their own transportation to and from their home school and the business site. 95% attendance is expected to remain in the course.

A complete application is required to apply. The SCC CAPS application and deadline to apply can be found under Enrollment on the SCC CAPS website - scccaps.org. If you do not have access to complete the online application, see your counselor to complete a paper application.

See the course listing and descriptions on the next page.

www.scccaps.org

Course Strand: Entrepreneurship and Business Management

ENTREPRENEURSHIP AND BUSINESS MANAGEMENT

Location: Stauder Technologies and EDC

Description: This course strand is designed for students to create real startup ventures and solve real business needs. They will be mentored by real employers and gain marketable professional skills in an off-campus location. This course will provide students a challenging, innovative, authentic, experiential learning environment that allows them to discover personal passions. Students will develop professional skills that are necessary to thrive in collaborative, innovative, and fast-paced environments. Their growth mindset and confidence will increase. Students will learn startup principles and develop an entrepreneurial mindset. They will turn ideas into actions, by validating their ideas, perfecting a pitch, and seeking resources and opportunities for a product or service. Students will also work with organizations to work on projects that solve real needs. This course culminates in an instructor-student agreed-upon passion project and internship showcasing their work in this exciting field of study. Students must provide their own transportation to and from the business site. 95% attendance is expected to remain in the course.

Course Strand: Healthcare and Medical Professionals

HEALTHCARE AND MEDICAL PROFESSIONS

Location: St. Charles Ambulance District Headquarters & Francis Howell School District Administrative Building, SSM, Barnes-Jewish St. Peters and Progress West Hospitals, Mercy

Description: This course strand is ideal for students who intend to go into a medical field. Students will engage in the team approach of healthcare at hospitals and/or healthcare facilities, giving students actual experience with health practitioners. Students will have the opportunity to learn about a variety of careers in the medical field, from medical practitioners to hospital administrators. Students will participate in medical training and clinical presentations prior to participating in clinical observational rotation assignments. Students will develop professional skills that are necessary to thrive in collaborative, innovative, and fast-paced environments. Students will learn about Safety, HIPAA, CPR, and Basic First Aid competencies. In addition, students will develop a capstone project. Students must provide their own transportation to and from the business site. 95% attendance is expected to remain in the course.

Course Strand: Engineering, Applied Technology, Creative Media

CREATIVE MEDIA

Location: Lewis and Clark Career Center

Description: This course strand is designed for students interested in developing professional and technical skills required for careers in various areas of creative media. Students will be provided with a challenging, innovative, authentic, experiential learning environment that allows them to discover personal passions. Students will develop professional skills that are necessary to thrive in collaborative, innovative, and fast-paced environments. Students will have the opportunity to explore the following areas as they relate to creative media: video production, graphic design, audio production, and digital photography. Students will perform real-world projects for clients utilizing the expertise of diverse guest instructors, mentors, and business partners. Students will collaborate with mentors and business partners to produce client projects and design their own products or prototypes, as well as solve real-world problems. This course culminates in an instructor-student agreed-upon passion project and internship. Students must provide their own transportation to and from the business site. 95% attendance is expected to remain in the course.

ENGINEERING

Location: Lewis and Clark Career Center

Description: This course strand is designed for students who have a passion for the engineering design process, applying math, science, and engineering standards to hands-on projects. They will be mentored by real employers and gain marketable professional skills in an off-campus location. This course culminates in an instructor-student agreed-upon passion project and internship showcasing their work in this exciting field of study. Students must provide their own transportation to and from the business site. 95% attendance is expected to remain in the course.

APPLIED TECHNOLOGY

Location: Lewis and Clark Career Center

Description: This course strand is designed for students interested in developing professional and technical skills required for careers in various areas of information technology. Students will be provided with a challenging, innovative, authentic, experiential learning environment that allows them to discover personal passions. Students will develop professional skills that are necessary to thrive in collaborative, innovative, and fast-paced environments. Students will have the opportunity to explore the following areas as they relate to PCs and mobile devices: software engineering, web development, operating systems, hardware technologies, network design/technologies, management information systems, and emerging technologies. Students will perform real-world projects for clients utilizing the expertise of diverse guest instructors, mentors, and business partners. Students will collaborate with mentors and business partners to produce client projects and design their own products or prototypes, as well as solve real-world problems. This course culminates in an instructor-student agreed-upon passion project and internship. Students must provide their own transportation to and from the business site. 95% attendance is expected to remain in the course.

LEWIS AND CLARK CAREER CENTER (Practical Arts)

General information about student selections for Lewis and Clark Career Center

Enrollment is a competitive process at each sending school. Students who want to be considered for a technical program need to complete a Lewis & Clark application form and return it to their school counseling office. Student information is compiled regarding grades, attendance, discipline patterns, and aptitude testing. Students who have completed the entire application procedure will be rated. Enrollment is based on the cooperative decision of the enrollment team at each sending school. For priority consideration, students need to complete the application procedure including testing by the enrollment date set annually at each sending school. Applications received after enrollment will be considered on a space-available basis.

All classes at Lewis & Clark Career Center meet for three periods each day and earn three units of credit per year. Articulation agreements are in place in certain programs for qualified students who complete their program.

Students who complete the technical program with a minimum of 90% attendance and a 75% average over the length of the program will receive a silver certificate of completion. A gold certificate will be awarded to students who maintain 95% attendance and 95% academic average over the length of the program, with no discipline resulting in loss of class time, and leadership as determined by the instructor.

Students who attend Lewis & Clark Career Center follow the St. Charles District Code of Conduct and Grading Scale.

Grading Scale

A	B	C	D	F
100-90	89-80	79-70	69-60	59-0

Career Clusters

Advanced Manufacturing
Precision Machine Technology
Combination Welding

Automotive & Mechanical Tech.
Auto Collision Repair
Auto Service Technology
Power Equipment Technology

Construction Trades
Brick & Stone Masonry
Building Trades
Electrical Trades
Heating, Ventilation, & Air Conditioning

Education
Early Childhood Careers
(birth - 3rd grade)

Health Services
Health/Health Related Occupations
Dental Assisting

Information Technology
Lewis and Clark Cyber Academy
Computer Software Development

Hospitality
Applied Retail & Business Skills

Law & Public Safety
Law Enforcement

ADVANCED MANUFACTURING

PRECISION MANUFACTURING TECH (1 or 2 year program)

Credit: 3 per year
Prerequisite: C or better in Algebra 1
Description: The goal of this program is to supply the industry with a highly qualified workforce by graduating exceptional students that are highly motivated and skilled in the needs and requirements expected by the manufacturing community. Students will learn machine safety, blueprint reading, mechanical design, utilization of conventional machine techniques, and Computer Numerical Controlled (CNC) programming. The course will cover the following areas: Safety and OSHA, Blueprint Reading, Basic Mechanical Design, Machining Safety, Manufacturing Processes, Semi Precision Measurement, Precision Measurement, Layout, Metallurgy, and Heat Treat, Manufacturing Processes, Drill Press, Conventional Engine Lathe, Conventional Vertical Mill, Surface Grinder, Introduction to Computer Numerical Control Systems and Programming.

WELDING (2 year program)

Credit: 3 per year
Prerequisite: none
Description: Welding is the most common method for permanently bonding metal parts. Due to its strength welding is used to join beams and reinforcing rods. Students will design, engineer, build, and troubleshoot complex metal fabrication challenges. Program emphasis is on semi-automatic processes, shielded metal arc welding, gas tungsten arc welding, and structural welding. Students will also learn new welding developments such as microprocessor-based technology and exotic metal types. Welding can be physically demanding and requires long periods of standing and the ability to lift 50 pounds. Welders must have arm/hand steadiness and good manual dexterity. For success in this career, you should also have problem-solving skills, the ability to follow directions, and high school-level math and reading skills.

AUTOMOTIVE & MECHANICAL TECHNOLOGY

AUTO COLLISON REPAIR (2 year program)

Credit: 3 per year
Prerequisite: none
Description: The Auto Collision Repair Program focuses on the repair and appearance of the interior and exterior of vehicles. Students will learn how to assess, estimate, and repair using modern welding, sanding, masking, and painting techniques, and the same advanced equipment found in professional auto collision repair companies. Students can earn I-CAR certifications, the industry standard for the auto collision repair business. In year one of the two-year program, students will learn non-structural repair methods, including MIG welding, straightening and aligning sheet metal, applying and shaping plastic fillers, plastic panel identification, and plastic repair methods. Year two will concentrate on painting and refinishing. Students will learn proper paint preparation procedures, masking techniques, and detailing cars. Primer, sealer, and base coat/clear coat application will be covered along with paint defect identification and repair. Proper spray gun techniques will be taught and practiced with lots of hands-on spraying of primers, paints, and clears.

AUTO SERVICE TECHNOLOGY (2 year program)

Credit: 3 per year
Prerequisite: none
Description: This course is open to individuals who have an interest in auto service trades in terms of a career goal. It is recommended that students have course credit in general shop, general metals, and basic computer skills. Automotive instruction at Lewis & Clark consists of a two-year program that provides the student with the basic theory and skills needed to become an entry-level automotive technician and service today's automobiles. Classroom instruction is followed by shop activities related to the lecture. Customer cars are repaired in the same manner as in the professional shop under the instructor's supervision. Students will gain experience in shop management by writing repair orders, ordering parts, and issuing supplies and tools used in the trade. This course is ASE (Automotive Service Excellence) certified by NATEF (National Automotive Technician Education Foundation). Both NATEF and ASE are nationally recognized and provide certification for shops and technicians across the country. Both instructors for the course are ASE Master Certified Technicians. Areas of instruction include General maintenance, engine repair, brakes, steering and suspension, heating/air conditioning/electrical/ electronics, engine performance, and manual/automatic transmission. Instructional time is approximately 50% class and 50% lab.

POWER EQUIPMENT TECHNOLOGY (1 or 2 year program)

Credit: 3 per year; optional college credit can be purchased through The University of Central Missouri
Prerequisite: good reading skills are required, as students will need to be able to refer to service manuals for detailed directions.
Description: This program prepares juniors and/or seniors to diagnose and repair two- and four-cycle engines on equipment such as lawnmowers, chainsaws, rototillers, edgers, and trimmers. Power equipment instruction ranges from home-use equipment to commercial equipment. Students will learn to adjust, clean, lubricate, and when necessary, replace worn or defective parts such as spark plugs, ignition parts, valves, and carburetors. Other skills taught include engine replacement, deck repair, blade balancing, blade and chain sharpening, fuel injection, and electrical repair. Troubleshooting and problem-solving on all types of equipment are stressed.

INFORMATION TECHNOLOGY COURSES

LEWIS AND CLARK CYBER ACADEMY (1 or 2 year program)

Credit: 3 per year
Prerequisite: none
Description: This program is open to juniors and seniors who have an interest in computers and the Information Technology field. Students will discover computer hardware, operating system software, troubleshooting, maintenance, and repair. As part of the learning experience, students will build a computer, diagnose system errors and faults, and make computer repairs. Students will prepare to test for the TestOut PC Pro and Network Plus certifications with the option to take CompTIA's A+ and Network + certifications in Year A. In Year B, students will be preparing for the PC Testout Security Plus certification with the option to take CompTIA Security Plus. Students will have developed an awareness of the world of work in the Information Technology industry, explore career options in the associated fields, and relate personal skills, aptitudes, and abilities to future career decisions. Upon successful completion of the program, students will demonstrate mastery of the foundational skills and competencies essential for success in the rapidly changing computer industries.

COMPUTER SOFTWARE DEVELOPMENT 1 & 2 (1 or 2 year program)

Note: This class may be taken as a dual credit class with St. Charles Community College or State Technical College of Missouri. Separate admissions criteria apply. Consult a Lewis & Clark Career Center Counselor for more information.
Credit: 3 per year
Prerequisite: none
Description: The Computer Software Development program is a great fit for the analytical student who has a love for computers. Computer programmers use logic and reasoning to identify complex problems and create innovative solutions. Projected occupational demand is high, and the pay is very good. One year the emphasis will be on software development, where the Linux operating system will be utilized. Students will learn how to write and edit source code using programming languages including Java and Python and will design, create, and maintain PC software. The other year, students will concentrate on web development including Relational Database Design, SQL, HTML, CSS, and javascript. In both years, students will select a year-long project of their choice in nearly any area of computer science.

CONSTRUCTION TRADES

BRICK & STONE MASONRY (2 year program)

Credit: 3 per year
Prerequisite: none
Description: This program is designed to prepare students for an apprenticeship or entry-level jobs in masonry construction. Students will learn to lay brick and block in various bond patterns used in commercial and residential construction. The course will include construction techniques for building fireplaces and chimneys, arches, special wall openings, double-width and reinforced masonry, wall anchoring systems, flashings and prevention of water penetration, and masonry paving. Students will also gain knowledge of various types of stone construction, and tuck-pointing and will also earn an OSHA 10 certification. Students must be able to work at heights on scaffolds, lift and handle heavy materials, work in group situations as a team member, follow instructions, and accomplish all tasks in an accurate and safe manner.

BUILDING TRADES (2 year program)

Credit: 3 per year
Prerequisite: recommended that students have one year of industrial arts
Description: This course is open to juniors who show an interest and aptitude in the field of construction as a wage-earning occupation. Students earn an OSHA 10 card and the opportunity to pursue working on the ACT WorkKeys, an exam required by the Carpenters' Union. Students are familiarized with entry-level skills for the major trades involved in residential construction such as carpentry, siding, interior trim, drywall hanging, roofing, concrete work, and landscaping. Most of the program involves the actual building of a house in Lewis & Clark Career Center's own subdivision. Students not only gain experience in home construction but will also learn about subdivision construction. Houses are sold upon completion.

ELECTRICAL TRADES (2 year program)

Credit: 3 per year
Prerequisite: Algebra with a C or higher and read at or above grade level
Description: Students will learn basic electrical theory including, parallel and series circuits, how to apply Ohm's Law, and installation of single-phase transformers. This course will teach students to identify, install, and troubleshoot electrical wiring and associated devices that are commonly used in both residential and commercial environments. Upon completion of the course, students will be able to read and interpret electrical prints and participate in the wiring of a new house. They will also learn how to wire single-pole, three-way, and four-way switches; receptacles, lighting, ground fault circuit interrupters, arc fault circuit interrupters, and breakers. Students will be introduced to the National Electrical Code and how it applies to different types of wiring methods and will learn to hand bend electrical metallic tubing. Students will learn about OSHA and lockout tagout methods for working on or near electrical equipment. Students will also learn how to troubleshoot basic control circuits using multimeter and ladder diagrams. Interested students must be physically fit and capable of working under adverse weather conditions, as they will be working on a Lewis & Clark student-built house. Students will construct real circuits, so the ability to abide by strict safety rules is extremely important. An aptitude for math in general and algebra, in particuluar, is required as is an aptitude to read and produce technical documents and drawings.

HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) (2 year program)

Credit: 3 per year
Prerequisite: none
Description: HVAC students will learn to design, install, repair, and maintain residential and commercial refrigeration and heating/air conditioning systems. They will also learn duct systems fabrication, blueprint reading, electrical schematics, and operational sequence charts as they progress toward certification. Students will also get the opportunity to install ductwork, a furnace, and an air conditioning unit at the Lewis & Clark student-built house. Applicants should have a good mechanical aptitude and be able to understand both written and verbal instructions and should be in good physical condition and free from respiratory problems.

EDUCATION PRESCHOOL & ELEMENTARY CAREERS

EARLY CHILDHOOD CAREERS (1 or 2 year program)

Note: Students who have met all requirements and attended two years of the program will be eligible to test for the CDA (Child Development Associate) credential upon graduation.
Credit: 3 per year
Prerequisite: prior child development course recommended
Description: This course will prepare students for entry-level employment in the field of early childhood education while providing the foundations for study in higher education programs that lead to certification in early childhood or elementary education. Students will gain the leadership, employment, and communication skills necessary for success in Early Childhood Careers. Over the course of the program, students will explore career opportunities and identify personal traits needed for success in careers working with young children. They will be given opportunities to work directly with children ranging in age from birth to age 8 in various childcare and elementary school settings. Students will earn certification in infant, child, and adult First Aid/CPR. In addition, students will earn Missouri State certificates for up to 5 professional development hours. Students completing this program will be able to describe typical child development, demonstrate knowledge of creating safe and healthy learning environments, and be competent in lesson planning and implementation. Students will practice appropriate behavior management techniques and will learn about nutritional guidelines, state licensing expectations, and the legal and ethical responsibilities of childcare workers and/or classroom teachers. Students who have met all requirements and attended two years of the program will be eligible to test for the CDA (Child Development Associate) credential upon graduation.

HEALTH SCIENCES

HEALTH OCCUPATIONS & HEALTH RELATED OCCUPATIONS – College Credit (1 year program)

Note: Dual credit with State Technical College of MO is available. Consult Lewis & Clark Career Center Counselor for more information. Lewis & Clark is an approved CNA training facility and testing takes place through an outside agency such as SCCC or at a facility where a student may get hired. Meeting minimum state standards is a requirement to test for the CNA. See instructors for details.
Credit: 3
Prerequisite: it is recommended that students have earned at least a "C" or higher in Biology and have strong study habits as this course is intense in its preparation for clinical rotations. Successful students possess a strong work ethic and an interest in science and medicine.
Description: The Health/Health Related Occupations courses offer learning experiences for juniors and seniors in high school designed to create or further stimulate their interest in the many career opportunities available in the health field. This course is designed to be challenging and meet the needs of all learning styles. The student will learn beginning skills and the basic procedures needed for an entry-level job and a sound basis for continuing their education in the medical field. The first semester involves classroom theory, demonstrations, and practice. During the second semester, students begin to draw upon previously acquired knowledge and basic skills by applying them to various health services through supervised clinical observations and on-the-job training hours. Students must have an up-to-date immunization record, a negative TB test, a negative urine drug screen, and a flu vaccine, must register on the Family Safety Registry, and maintain a 75% average and 90% attendance to remain in the program and be placed in clinical rotations. Students are placed in clinical rotations Monday through Thursday and continue classroom work on Fridays.

DENTAL ASSISTING (1 or 2 year program)

Credit: 3 per year (1 science credit with waiver)
Prerequisite: none
Description: Dental Assisting will immerse students into a clinical experience in both the classroom and through rotations available during their junior and/or senior year. Our instruction will include real-world tools and equipment that allow students to conduct mock exams and perform X-rays, preventative and restorative practices, and emergency care. Students who successfully complete this course will be industry-ready. Students will assist chair-side during operative and specialty procedures, expose, develop, and mount x-rays, prepare and mix a variety of basic dental restorative materials, and identify and use basic types of dental and lab equipment including dental instruments.

HOSPITALITY

APPLIED RETAIL AND BUSINESS SKILLS (1 or 2 year program)

Credit: 3 per year
Prerequisite: ability to work in competitive employment
Description: This course is designed for juniors or seniors with special needs who have an interest in the retail industry. The program provides an active, hands-on, multimedia approach that emphasizes instructional strategies that are successful with special needs populations. The students take "ownership" of and operate a fully functional store and cafe on the Lewis & Clark campus. The students in the Applied Retail & Business Skills program rotate through the following stations at JC's, the school store: cashier, inventory control, maintenance, food preparation, and food manager. The classroom instruction includes lessons to inform and enhance training and skills learned through operations. Also included are lessons on self-awareness, social skills, communication skills, and employability skills. Second-year students have the opportunity to work in an internship in local school cafeteria kitchens and other community placements.

LAW AND PUBLIC SAFETY

LAW ENFORCEMENT (1 and/or 2 year program) Credit: 3 per year

Prerequisite: C or better in English 2
Description: The Law Enforcement program focuses on the core principles of criminal justice, the basic knowledge, skills, and standards taught at Missouri Peace Officers Standards and Training Program (POST) Certified Police Academies. Professionalism, character, and integrity are embedded into this program and serve as a foundation for every participant. The program also includes a strong emphasis on communication (verbal, non-verbal, and written) and teamwork. This course will include many opportunities for students to connect classroom experiences through practical application. Students will be involved with investigation techniques, law enforcement procedures and protocols, and courtroom etiquette. Physical training is a part of the Law Enforcement curriculum. Students should be able to: perform basic physical exercises and be generally physically fit; tolerate the loud sounds associated with law enforcement, such as sirens, bangs, and yelling/vocalizations; climb, lift, bend, and handle taxing physical activity; tolerate an environment including high places, small spaces, extreme temperatures, and dirty environments. A physical examination by a medical professional (such as a family physician) will be required for students enrolling in the law enforcement program Uniforms will be worn on "professional dress days" determined by the instructor.

KEY

Cross-Cutting Clusters	Sub-Clusters	Clusters	Cluster Groupings

Career Clusters

Pathways to College & Career Readiness