



***The City of  
St. Charles School District***

**LEWIS & CLARK  
CAREER CENTER**



***High School  
Career & Educational  
Planning Guide  
2021-2022***

# **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 the 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 personal plan of study. It is the responsibility of each student to read carefully 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 which 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 are 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 your 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 8 credit classes are required to pass 7 credit bearing classes for 3.5 credits each semester to be eligible for competitive school activities the following semester.

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. Student competing in MSHAA 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.



# 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.

# MISSION AND VISION STATEMENTS OF ST. CHARLES HIGH SCHOOL



## **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.

# COLLECTIVE COMMITMENTS OF ST. CHARLES WEST HIGH SCHOOL



**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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# **CITY OF ST. CHARLES SCHOOL DISTRICT**

## **GRADUATION REQUIREMENTS**

<b>Category</b>	<b>Units of Credit</b>	<b>Class of 2021</b>	<b>Class of 2022</b>	<b>Class of 2023 and Beyond</b>
<b>Communication</b>	4	4	4	4
<b>Social Studies</b>	3	3	3	3
<b>Mathematics</b>	3	3	3	3
<b>Science</b>	3	3	3	3
<b>Fine Arts</b>	1	1	1	1
<b>Practical Arts</b>	1	1	1	1
<b>PE</b>	1	1	1	1
<b>Computers</b>	0.5	0.5	0.5	0.5
<b>Personal Finance</b>	0.5	0.5	0.5	0.5
<b>Health</b>	0.5	0.5	0.5	0.5
<b>Electives</b>	10.5	8.5	9.5	10.5
<b>Total</b>	28	26	27	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 and Clark Career Center

**Students must pass the Missouri Constitution Test, U.S. Constitution Test, and Civics Test. EOC's are also required for certain classes.**

## **Other General Information**

1. **Seniors must be responsible for graduation requirements.** If there is any doubt whether 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, Clothing and Textiles 4, and AP Studio Art.
3. Course selection should be given careful consideration. Students will not be allowed to change classes unless there is a justifiable reason.

# City of Saint Charles School District

## Graduation Class of 2022

### CUM LAUDE HONORS SYSTEM

<p><b>Summa Cum Laude</b></p> <p>4.1 Cumulative GPA</p> <p>10 semesters utilizing any combination of the following:</p> <ul style="list-style-type: none"> <li>❖ <b>Advanced Placement Courses</b></li> <li>❖ <b>College Level Courses</b></li> <li>❖ <b>Fourth Year of a World Language</b></li> </ul> <p><i>(10 semesters = 5 full year courses)</i></p>	<p><b>Magna Cum Laude</b></p> <p>4.0 Cumulative GPA</p> <p>4 semesters utilizing any combination of the following:</p> <ul style="list-style-type: none"> <li>❖ <b>Advanced Placement Courses</b></li> <li>❖ <b>College Level Courses</b></li> <li>❖ <b>Fourth Year of a World Language</b></li> </ul> <p><i>(4 semesters = 2 full year courses)</i></p>	<p><b>Cum Laude</b></p> <p>3.7 Cumulative GPA</p> <ul style="list-style-type: none"> <li>❖ <b>NO Advanced Placement Courses</b></li> <li>❖ <b>NO College Level Courses</b></li> <li>❖ <b>No Fourth Year of a World Language</b></li> </ul>
	<p><b>Magna Cum Laude</b></p> <p>3.8 Cumulative GPA</p> <p>8 semesters utilizing any combination of the following:</p> <ul style="list-style-type: none"> <li>❖ <b>Advanced Placement Courses</b></li> <li>❖ <b>College Level Courses</b></li> <li>❖ <b>Fourth Year of a World Language</b></li> </ul> <p><i>(8 semesters = 4 full year courses)</i></p>	<p><b>Cum Laude</b></p> <p>3.6 Cumulative GPA</p> <p>6 semesters utilizing any combination of the following:</p> <ul style="list-style-type: none"> <li>❖ <b>Advanced Placement Courses</b></li> <li>❖ <b>College Level Courses</b></li> <li>❖ <b>Fourth Year of a World Language</b></li> </ul> <p><i>(6 semesters = 3 full year courses)</i></p>



# City of Saint Charles School District

## Graduation Class of 2023, 2024, and 2025

### 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 earns 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 in order 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, Gifted English 1 & 2, Honors US History, Honors Geometry, Honors Algebra 2, Honors Pre-Calculus, Honors Biology, Honors Chemistry, and Honors Physics

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

**AP Courses:** AP Language and Composition, AP Literature and Composition, AP World History, AP European History, AP Government and Politics, AP Psychology, AP Biology, AP Chemistry/Lab, AP Physics, AP Spanish 5, AP French 5, AP German, AP Studio Art, AP Music Theory, AP Computer Science Principles, AP Spanish 4, AP French 4, AP German 4

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

**CAPS:** Technology Solutions, Healthcare Academy, Global Business/Entrepreneurship,

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

# **STANDARDS BASED GRADING**

Further information can be found on the district website <http://www.stcharlessd.org>

## **WEIGHTED GRADES**

The Board of Education approved weighted grades at the high school level. Weighted grades are number 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. All courses are listed on page 6.

## **GRADE LEVEL CLASSIFICATIONS**

In order 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 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 in order to continue receiving benefits.

## **CREDIT RECOVERY**

Should students find themselves in a situation where they have fallen short on 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 upon course availability)
- YES (Youth Experiencing Success) program at the Success Campus (based upon entrance criteria and 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 upon course availability)
- Additional credit recovery options may be available after school hours (based upon course availability)

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 that 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**

Since virtual instruction can be an effective education option for some students, there may be courses available either through a District-approved virtual option or through the Missouri Course Access Program (MoCAP). The St. Charles School District has partnered with the LAUNCH program for MoCAP approved virtual education options. Please see the following websites for further information about MoCAP and course lists. <https://fueledbylaunch.com/> More information or questions about virtual courses, visit our website at <https://www.stcharlessd.org/virtual-instruction> or contact your student's School Counselor.

SCSD will also offer virtual courses taught by district teachers for the 2021-2022 school year. Students interested in the SCSD virtual course offerings will need to fill out an application for Virtual Learning. This application can be found on your high school's enrollment website. Each applicant will be reviewed to determine if virtual education is in their best educational interest. Criteria considered includes previous success in the virtual learning environment, GPA, and the ability to be self-directed and complete work independently. Other characteristics or reasons can also be considered that suggest that the applicant would do as well as or better in the virtual environment than they are currently in the in-person classroom. The following will also be considered when applying:

### Student Skills Necessary for Success in Virtual Courses

- Student has demonstrated time-management skills that indicate the student is capable of submitting assignment 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.

Virtual courses are subject to availability. Some virtual courses may be offered as All-Access courses based upon student enrollment and staffing. The following courses will be potential virtual course offerings. English 1, Honors English 1, English 2, Honors English 2, English 3, English 4, AP Literature, AP Language, Adv. College Credit Comp and Lit, Algebra 1, Geometry, Honors Geometry, Geometry Lab, Algebra 2, Honors Algebra 2, Algebra 2 Lab, Honors Pre-Calculus, College Algebra, Calculus, Physical Science, Biology, Honors Biology, Chemistry, Honors Chemistry, Applied Science, AP Biology, AP Chemistry, US History, Honors US History, World Civilizations, AP World History, Government, AP US Government and Politics, College US History, Intro to Art 1, World Art, Photography, Drawing & Painting 1 & 2, AP Studio Art, Concert Band, Jazz Band, Orchestra, Mixed Choir, Treble Choir, Concert Choir, Madrigal Choir, AP Music Theory, Child Development 1, Accounting 1, Fashion Design & Merchandising, Food Fundamentals, Cooperative Career Education Internship, Housing & Interior Design, Human Relations, Marketing, Marketing Internship, Short Film Video Production, PLTW Intro to Engineering, PLTW Principles of Engineering, PLTW AP Computer Science A, PLTW Civil Engineering Architecture, Physical Education, Fitness Walking, Health, Personal Finance, Business Applications, Sociology, Psychology 1 & 2, Contemporary Issues, Law & You, Economics, Environmental Science, Forensics, Creative Writing 1 & 2, Creative Writing 1 & 2, French 1-5, Spanish 1-5, German 1-5.

## **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 guidance 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 guidance office at the end of each semester. Students interested in dual enrollment are advised that dual enrollment may affect MSHSAA eligibility.

## **DUAL ENROLLMENT – EARLY COLLEGE**

The St. Charles School District (SCSD) is proud to partner with Saint Charles Community College (SCC) to offer the Early College Program (ECP) to students at all SCSD high schools. The Early College Program offers high school students an opportunity to earn transferable college credits while still enrolled in high school. Beginning in a student's senior year, students may enroll in the Early College Program and replace part of their traditional high school course schedule with on-campus courses using textbooks and curriculum taught by SCC professors. Please speak with your guidance counselor for further details.

## **DUAL CREDIT**

SCSD is partnering with Missouri Southern 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 qualify for Free and Reduced Lunch status during the current school year. Details regarding the process for obtaining credit will be provided through the Guidance Department and the instructor. Please contact your guidance counselor with any questions.

## **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, 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, to develop accountability, and to develop perseverance
- ◆ Extensive preparation the faculty and administration must make in hiring teachers, making assignments, balancing classes, preparing facilities, allocating budgets, 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 not 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 in order to have a workable schedule. In order 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
<b>Communication Skills</b>					
29	English 1	9	Year	1	None
29	Honors English 1	9	Year	1	Yes
29	Gifted English 1	9	Year	1	Yes
29	English 2	10	Year	1	None
30	Honors English 2	10	Year	1	Yes
30	Gifted English 2	10	Year	1	Yes
30	English 3	11	Year	1	None
30	AP Literature and Composition	11-12	Year	1	None
31	English 4	12	Year	1	None
31	AP Language and Composition	11-12	Year	1	None
31	Advanced College Credit: Composition	12	Sem	0.5	Yes
32	Advanced College Credit: Literature Studies	12	Sem	0.5	Yes
32	Speech 1	9-12	Sem	0.5	None
32	Speech 2	9-12	Sem	0.5	Yes
32	Debate	9-12	Sem	0.5	Yes
32	Creative Writing 1	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
33	Yearbook Production	10-12	Year	1	Yes
33	English Career & College Readiness 9-10	9-10	Year	1	Yes
33	English Career & College Readiness 11-12	11-12	Year	1	Yes
<b>World Language</b>					
34	French 1	9-12	Year	1	None
34	French 2	9-12	Year	1	Yes
34	French 3	10-12	Year	1	Yes
34	French 4	11-12	Year	1	Yes
34	French 5	12	Year	1	Yes
34	German 1	9-12	Year	1	None
34	German 2	9-12	Year	1	Yes
35	German 3	10-12	Year	1	Yes
35	German 4	11-12	Year	1	Yes
35	German 5	12	Year	1	Yes
35	Spanish 1	9-12	Year	1	None
35	Spanish 2	9-12	Year	1	Yes
35	Spanish 3	10-12	Year	1	Yes
35	Spanish 4	11-12	Year	1	Yes
35	Spanish 5	12	Year	1	Yes
<b>Social Sciences</b>					
36	US History	9	Year	1	None
36	Honors US History	9	Year	1	Yes
36	World Civilization	10	Year	1	Yes
36	Government	11	Year	1	None
36	Cultural Geography	10-12	Sem	0.5	None
37	Law & You	11-12	Sem	0.5	Yes
37	Sociology	11-12	Sem	0.5	None
37	Psychology 1	11-12	Sem	0.5	None
37	Psychology 2	11-12	Sem	0.5	None

Page #	Title of Course	Grade	Duration	Credit	Prerequisite
	<b>Social Sciences</b>				
37	Contemporary Issues	11-12	Sem	0.5	None
37	Economics	11-12	Sem	0.5	None
37	College US History I & 2	11-12	Year	1	Yes
38	AP World History	10-12	Year	1	None
38	AP European History	10-12	Year	1	None
38	AP United States Government & Politics	11-12	Year	1	None
38	AP Psychology	11-12	Year	1	None
	<b>Mathematics</b>				
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	9-12	Year	1	Yes
39	Honors Geometry	9-12	Year	1	Yes
39	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 & 2	11-12	Sem	0.5	Yes
40	AP Statistics	10-12	Year	1	Yes
40	College Algebra	11-12	Year	1	Yes
40	Honors Pre-Calculus	11-12	Year	1	Yes
41	Calculus	12	Year	1	Yes
	<b>Science</b>				
41	Physical Science	9-12	Year	1	None
41	Honors Biology 1	9-12	Year	1	Yes
41	Biology 1	10-12	Year	1	None
42	Chemistry	11-12	Year	1	Yes
42	Honors Chemistry 1	10-11	Year	1	Yes
42	Physics	11-12	Year	1	Yes
42	Honors Physics 1	11-12	Year	1	Yes
42	Biology 2– Human Biology	11-12	Year	1	Yes
42	Environmental Science	11-12	Sem	0.5	Yes
43	AP Biology	11-12	Year	1	Yes
43	AP Chemistry/AP Chemistry Lab	11-12	Year	1	Yes
43	AP Physics	12	Year	1	Yes
42	Applied Science	11-12	Year	1	Yes
42	Forensic Science	11-12	Sem	0.5	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	10-12	Year	1	Yes
44	Science Research	10-12	Year	1	Yes
44	PLTW Biomedical Innovation	12	Year	1	Yes
	<b>Fine Arts</b>				
44	Introduction to Art 1	9-12	Sem	0.5	None
44	World Art	9-12	Sem	0.5	None
44	Photography	11-12	Sem	0.5	Yes
44	Ceramics/Sculpture 1	9-12	Sem	0.5	Yes
45	Ceramics/Sculpture 2	9-12	Sem	0.5	Yes
45	Drawing/Painting 1	9-12	Sem	0.5	Yes
45	Drawing/Painting 2	9-12	Sem	0.5	Yes
45	Creative Graphic Design	10-12	Sem	0.5	Yes

45	AP Studio Art	11-12	Year	1	Yes
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Page #	Title of Course	Grade	Duration	Credit	Prerequisite
<b>Fine Arts</b>					
46	Concert Band	9-12	Year	1	None
46	Jazz Band	9-12	Year	1	None
46	Orchestra	9-12	Year	1	Yes
46	Mixed Choir	9-12	Year	1	Yes
46	Treble Choir	9-12	Year	1	Yes
47	Concert Choir	9-12	Year	1	Yes
47	Chamber Choir/Madrigal Choir	10-12	Year	1	Yes
47	AP Music Theory	10-12	Year	1	Yes
47	Theatre 1	9-12	Sem	0.5	None
47	Theatre 2	9-12	Sem	0.5	Yes
47	Actor's Studio	9-12	Sem	0.5	Yes
48	Technical Theatre	9-12	Sem	0.5	Yes
<b>Family and Consumer Science</b>					
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
49	Advanced Foods: Baking and Pastry Arts	9-12	Sem	0.5	Yes
49	Advanced Foods: International Foods	9-12	Sem	0.5	Yes
49	Advanced Foods: Introduction 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
50	Career Pathways for the Teaching Profession 2	11-12	Sem	0.5	Yes
50	Human Relations	11-12	Sem	0.5	None
50	Housing & Interior Design	10-12	Sem	0.5	None
50	Health & Wellness	9-12	Sem	0.5	None
50	Adaptive FACS	9-12	Sem	0.5	None
<b>Business Education</b>					
51	Business Applications	9-12	Sem	0.5	None
51	Introduction to Business	9-10	Sem	0.5	None
51	Visual Design (Photoshop)	9-12	Sem	0.5	None
51	Multimedia (Premiere Pro/After Effects)	10-12	Sem	0.5	None
51	Digital Media (In Design)	10-12	Sem	0.5	None
51	Web Design	10-12	Sem	0.5	None
51	Business Law	10-12	Sem	0.5	None
52	Business Management	10-12	Sem	0.5	None
52	Accounting I	10-12	Year	1	None
52	Accounting II	11-12	Year	1	Yes
52	Broadcast Media	11-12	Year	1	Yes
<b>Cooperative Career Education/Marketing</b>					
52	Cooperative Career Education	11-12	Year	1	None
52	Co-Op Career Education Internship	11-12	Year	1	Yes

Page #	Title of Course	Grade	Duration	Credit	Prerequisite
<b>Computer Science</b>					
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	10-12	Year	1	Yes
<b>Marketing Education</b>					
53	Marketing 1	10-12	Year	1	None
53	Sports and Entertainment Marketing	10-12	Sem	0.5	Yes
54	Travel and Tourism Marketing	10-12	Sem	0.5	Yes
54	Marketing Internship	11-12	Year	1	Yes
54	Merchandising Lab	11-12	Year	1	Yes
<b>Industrial Technology</b>					
54	Home Repairs	9-12	Sem	0.5	None
54	Design and Machining Process	9-12	Year	1	None
55	Advance Design & Machine Processes	10-12	Year	1	Yes
55	Graphic & Electronic Media	9-12	Sem	0.5	None
55	Live Video Production Technology	9-12	Year	1	Yes
55	Short Film Video Product. Technology	9-12	Year	1	Yes
55	(PLTW) Intro to Engineering Design	9-12	Year	1	None
55	(PLTW) Principles of Engineering	10-12	Year	1	Yes
55	(PLTW) AP Computer Science Principles	10-12	Year	1	Yes
56	(PLTW) Civil Engineering Architecture	10-12	Year	1	Yes
56	Robotics	9-12	Sem	0.5	None
56	Advanced Robotics	10-12	Year	1	Yes
56	PLTW Engineering Design & Dev.	11-12	Year	1	Yes
<b>Physical Education/ Health</b>					
56	Physical Education	9-12	Sem	0.5	None
56	Health	9-12	Sem	0.5	None
56	Fitness Walking	9-12	Sem	0.5	Yes
56	Strength Training	9-12	Sem	0.5	Yes
57	Core Conditioning A	9-12	Sem	0.5	Yes
57	Core Conditioning B	9-12	Sem	0.5	Yes
57	Team Sports	9-12	Sem	0.5	Yes
57	Recreational Games	10-12	Sem	0.5	Yes
57	Outdoor Education	10-12	Sem	0.5	Yes
<b>General Electives</b>					
57	Academic Lab	9-12	Sem	0.5	None
57	Office Aide	12	Sem	0.5	None
57	Teacher Aide	12	Sem	0.5	None
58	Youth Engaged in Leadership and Learning	9	Sem	0.5 or 1	Yes
58	Advanced Leadership Lab	10-12	Sem	0.5 or 1	Yes
58	Gifted Exploration & Expansion	9-10 & 11-12	Sem	0.5	Yes
58	Students As Mentors	12	Sem	0.5	Yes
58	ACT Prep Skills	10-12	Sem	0.5	Yes
59	ACT English & Reading	10-12	Sem	0.5	Yes
59	ACT Math & Science	10-12	Sem	0.5	Yes
59	Career Opportunities	9-11	Sem	0.5	None
59	Live, Learn, Lead, Elite	9-12	Sem	0.5	None
<b>CAPS</b>					
60	Global Business and Entrepreneurship	11-12	Year	3	Yes
60	Healthcare	11-12	Year	3	Yes
60	Technology Solutions	11-12	Year	3	Yes



Page #	Title of Course	Grade	Duration	Credit	Prerequisite
<b>Lewis &amp; Clark Career Center</b>					
62	Precision Machine Technology	11-12	1 and/or 2 Year	3	Yes
62	Combination Welding	11-12	2 Year	3	Yes
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 and/or 2 Year	3	Yes
64	Computer Maintenance & Networking	11-12	1 Year	3	None
64	Software Development 1	11-12	1 Year	3	Yes
64	Software Development 2	11-12	1 Year	3	Yes
65	Brick & Stone Masonry	11-12	2 Year	3	None
65	Building Trades—Carpentry	11-12	2 Year	3	None
65	Electrical Trades	11-12	2 Year	3	Yes
65	Heating, Ventilation & A/C (HVAC)	11-12	2 Year	3	Yes
66	Early Childhood Careers	11-12	1 and or 2 Year	3	Yes
66	Health Occupations & Health Related Occupations	11-12	1 year	3	Yes
67	Applied Retail and Business Skills	11-12	1 and or 2 Year	3	Yes
67	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:** 4 units, one of which may be speech or debate; 2 units emphasizing composition or writing skills are required.
- ◆ **Social Studies:** 3 units
- ◆ **Mathematics:** 3 units Algebra I and higher
- ◆ **Science:** 3 units (not including General Science), one of which must be a lab course.
- ◆ **Visual/Performing Arts:** 1 unit (fine art courses in visual arts, music, dance and theater.)
- ◆ **Electives:** 3 units, selected from world language and/or combinations of the above courses. (Two units of world language are strongly recommended.)

**\* 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 STANDIZED 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 on the basis of 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) requires completion of at least 17 units of credit (1 unit = 1 year in class) as follows:

- ◆ Four (4) units of English, one of which may be speech or debate. Two units emphasizing composition or writing skills are required.
- ◆ Four (4) units of mathematics (Algebra 1 or higher). Engineering and science majors should include at least one semester of trigonometry.
- ◆ Three (3) units of science (not including general science), one of which must be a laboratory course. The three science units must include units from at least two of the following areas: physical science, biology, physics, chemistry and earth sciences.
- ◆ Three (3) units of social studies.
- ◆ One (1) unit of fine arts, to be taken in visual arts, music, dance or theater.
- ◆ Two (2) units of a single world language.

# **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 I, 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 I or Division II athletics should be aware of the requirements and certification process. For more information go to:

1. For D-I and D-II eligibility requirements, such as core courses, test scores and core GPA average, go to [www.ncaa.org](http://www.ncaa.org)
2. For information on NAIA eligibility requirements go to [www.playnia.org](http://www.playnia.org)
3. For Junior College (NJCAA) eligibility requirements go to [www.njaa.org](http://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 AVAILABLE FOR STUDENTS OF CITY of ST. CHARLES SCHOOL DISTRICT**

**Students may need to travel between schools to take these course selections:**

College Composition 1 & 2 (3 credits each) (St. Charles West only)  
College U.S. History 1 & 2 (3 credits each) (Both schools)

Calculus (5 credits) (Both schools)  
College Algebra (3 credits) (Both Schools)  
College Composition 1 & 2 (3 credits each) (St. Charles High only)

## **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 Studio Art  
AP Music Theory  
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 Advanced Placement (AP) Program is a cooperative educational endeavor between secondary schools, colleges, and universities. It exposes high school students to college-level material through involvement in an AP course, and it gives them the opportunity to show what they mastered by taking an AP Exam. Colleges and universities can then grant credit, placement, or both to students who have done so.

**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 require deep understanding of curriculum. Demonstrating that understanding can involve much reading, writing, analysis, laboratory experience, computation, and/or critical thinking. Courses may include graded summer assignments (reading, writing, skill review) that help ensure students have the best opportunity for success in the course.**

AP exams are governed by the College Board. Exams are generally held at St. Charles High School or St. Charles West High School. The cost of each exam for the 2021-2022 school year is \$95, but the cost is subject to change per the College Board.

According to a College Board press release in February 2018, “Over the last 10 years, both the number of U.S. public high school graduates who’ve taken an Advanced Placement® (AP®) exam and the number who have scored a 3 or higher on at least one AP Exam have increased by about 70%.” Students take AP courses and exams for several reasons, including the challenge, prestige, money and time saved, and future opportunities that can result. The associated cost savings can be as much as \$2,500 per course. The entering college student with AP recognition can take advanced courses, explore different subject areas, enter honors and other special programs, pursue double majors, and may complete undergraduate requirements early.

A student who earns a score of 3 or better on an AP Exam is generally considered qualified to receive credit for an equivalent course at one of the 2,900 colleges and universities that give credit for AP Exams. Unfortunately, college and university policies regarding Advanced Placement grades are not consistent. Students seeking college credit through AP are advised to obtain the college’s AP policy in writing, or to look for it on the institution’s website. Questions to ask include: What placement, exemption, and credit are granted for satisfactory performance on an AP Exam? What minimum AP Exam grade qualifies for this treatment? Is there any other requirement to receive credit and/or placement?

Quoted information:

“More Students Than Ever Are Participating and Succeeding in Advanced Placement.” *College Board*, The College Board, 21 Feb.

2018, [www.collegeboard.org/releases/2018/more-students-than-ever-are-participating-and-succeeding-in-advanced-placement](http://www.collegeboard.org/releases/2018/more-students-than-ever-are-participating-and-succeeding-in-advanced-placement).

# **A DESCRIPTION OF EACH AP COURSE EXAM FOLLOWS:**

## **Art History:**

The AP Art History exam is a 3 hour exam covering a full-year introductory college course in the history of art that includes “a specific set of 250 works of art in 10 content areas, from global prehistory... [to] global works from the present.” It consists of 60 minutes of multiple-choice questions and 120 minutes of free response questions of which there are two 30-minute essay questions and four 15-minute essay questions. “Essay questions often include images of works of art as stimuli.”

## **Biology:**

The AP Biology exam is a 3 hour examination covering a full-year introductory college course in biology with laboratory. It includes 90 minutes of multiple-choice questions and 90 minutes of approximately 6 free response (both short and longer) essays that encompass broader topics. Both sections of the exam test the student’s understanding of biology through inquiry-based investigations” covering “evolution, cellular processes—energy and communication, genetics, information transfer, ecology, and interaction.” Both sections may include questions based on the objectives of 12 AP Biology laboratory investigations.

## **Calculus AB, Calculus BC:**

The 3 hour 15 minute Calculus AB examination covers differential and integral calculus topics that are typically included in an introductory Calculus 1 college course. The three-hour fifteen-minute Calculus BC exam covers the Calculus AB topics as well as advanced topics in integral calculus, sequences, and series. The Calculus BC topics are typically included in a two-semester sequence (Calculus 1 and 2) at the college level. Each examination has a 105 minute multiple-choice section and a 90 minute free-response section. Students may take only one calculus examination in a given year. A College Board-approved graphing calculator is required for the exam.

## **Chemistry:**

The AP Chemistry course acts as an introductory college course in chemistry with laboratory. The exam covers student “understanding of chemistry through inquiry-based investigations... [on] topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.” The 3 hour 15 minute exam includes 90 minutes of multiple-choice questions with a broad coverage and 105 minutes of free response questions (three long answer and four short answer responses) that assess “experimental design, quantitative/qualitative translation, analysis of authentic lab data, creating or analyzing atomic or molecular views, and following a logical/analytical pathway to solve a problem.” Students are permitted to use a College Board approved scientific or graphing calculator on the free response section.

## **Computer Science Principles:**

The AP Computer Science Principles assessment consists of 2 parts. The first part consists of 2 performance tasks (create and explore) that are worth 40% of the AP score and are uploaded to a digital portfolio by April 30. The second part consists of an end-of-course exam worth 60% of the AP score. It is a 2 hour examination that consists of single-select multiple choice questions and multiple-select multiple choice questions over topics like “creativity, abstraction, data and information, algorithms, programming, the internet, and global impact.”

## **Computer Science A:**

The AP Computer Science A assessment exam is a 3 hour examination that aligns “to a first-semester, college level course in computer science.” It consists of 2 parts worth 50% each: a 40-question multiple choice section and 4-question free response section. This course focuses on java and “It focuses on “fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing.” Understanding of algebraic processes and English are recommended prerequisites.

**English Literature and Composition:**

The AP English Literature and Composition exam is a 3 hour examination that “aligns to an introductory college-level literary analysis course.” The AP English Literature and Composition exam “focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama).” It includes a 60-minute multiple choice section and a 120-minute free response section where students provide “literary analysis for a given poem . . . [and] passage of fiction” and “an analysis that examines a specific concept, issue, or element in a work of literary merit selected by the student.”

**English Literature and Composition:**

The AP English Literature and Composition exam is a 3 hour examination that “aligns to an introductory college-level literary analysis course.” The AP English Literature and Composition exam “focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama).” It includes a 60-minute multiple choice section and a 120-minute free response section where students provide “literary analysis for a given poem . . . [and] passage of fiction” and “an analysis that examines a specific concept, issue, or element in a work of literary merit selected by the student.”

**European History:**

The AP European History covers “European history from approximately 1450 to the present” and incorporates five themes; “Interaction of Europe and the World, Poverty and Prosperity, Objective Knowledge and Subjective Visions, States and Other Institutions of Power, and individual and Society.” The 3 hour 15 minute exam corresponds to a full-year introductory college course in European history and includes 55 minutes of multiple-choice questions, 50 minutes for short answer questions, 55 minutes for a document based question, and 35 minutes for a long essay selected by the student from given choices.

**French:**

The AP French Language exam is an approximately 3 hour examination that “emphasizes communication . . . by applying interpersonal, interpretive, and presentational skills in real-life situations.” It focuses on “six themes: Beauty and Aesthetics; Contemporary Life; Families and Communities; Global Challenges; Personal and Public Identities; [and] Science and Technology.” The exam includes an approximately 95-minute multiple choice section involving print and audio texts and an approximately 80-minute section with free response writing and speaking (“Interpersonal Writing, Presentational Writing, Interpersonal Speaking, [and] Presentational Speaking.”

**German:**

The AP German Language exam is an approximately 3 hour examination that “emphasizes communication . . . by applying interpersonal, interpretive, and presentational skills in real-life situations.” It focuses on “six themes: Beauty and Aesthetics; Contemporary Life; Families and Communities; Global Challenges; Personal and Public Identities; [and] Science and Technology.” The exam includes an approximately 95-minute multiple choice section involving print and audio texts and an approximately 80-minute section with free response writing and speaking (“Interpersonal Writing, Presentational Writing, Interpersonal Speaking, [and] Presentational Speaking.”

**Government and Politics-United States:**

The AP United States Government and Politics exam is equivalent to one semester of college level politics and covers the following major content areas: “Constitutional Underpinnings; Political Beliefs and Behaviors; Political Parties, Interest Groups, and Mass Media; Institutions of National Government; Public Policy; and Civil Rights and Civil Liberties.” It consists of a 2 hour 25 minute examination with 45 minutes of multiple-choice questions and 100 minutes of free-response questions.



**Music Theory:**

The AP Music Theory exam is a 3 hour examination covering two semesters of introductory college music theory over “topics such as musicianship, theory, musical materials, and procedures.” Additionally, it “evaluates students’ understanding of musical structure and compositional procedures.” It consists of approximately 80 minutes of multiple choice questions (some of which are based on aural stimuli) and approximately 80 minutes of free response exercises (including a sight-singing section).

**Physics:**

The AP Physics C: Mechanics exam is a 90 minute examination that covers the one semester of calculus- based, college physics and includes the following topics: “kinematics; Newton’s laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; [and] oscillations and gravitation.” The exam consists of a 45-minute multiple choice section and a 45-minute free response section. The students are permitted the use of a College Board approved scientific and/or graphing calculator for the entire exam.

**Psychology:**

The AP Psychology exam is a 2 hour examination that “introduces students to the systematic and scientific study of human behavior and mental processes.” It focuses on the following topics: “History and Approaches; Research Methods; Biological Bases of Behavior; Sensation and Perception; States of Consciousness; Learning; Cognition; Motivation and Emotion; Developmental Psychology; Personality; Testing and Individual Differences; Abnormal Behavior; Treatment of Abnormal Behavior; [and] Social Psychology.” The exam includes a 70-minute multiple choice section worth 2/3 of the exam score and a 50-minute free response section worth 1/3 of the exam score.

**Spanish:**

The AP Spanish Language exam is an approximately 3 hour examination that “emphasizes communication by applying interpersonal, interpretive, and presentational skills in real-life situations.” It focuses on “six themes: Beauty and Aesthetics; Contemporary Life; Families and Communities; Global Challenges; Personal and Public Identities; [and] Science and Technology.” The exam includes an approximately 95-minute multiple choice section involving print and audio texts and an approximately 80-minute section with free response writing and speaking (“Interpersonal Writing, Presentational Writing, Interpersonal Speaking, [and] Presentational Speaking.”

**Statistics:**

The 3 hour Statistics examination covers the topics of “exploring data, sampling and experimentation, anticipating patterns, and statistical inference.” The exam is equivalent to a one semester introductory, non-calculus based college course in statistics.” The examination has a 90 minute multiple-choice section (with 40 questions) and a 90 minute free-response section (with 6 questions). A College Board-approved graphing calculator with statistic functionality is required for the exam.

**Studio Art:**

Instead of taking a written examination, AP Studio Art candidates are required to produce a portfolio (2-D Design, 3-D Design, or Drawing) for evaluation that generally “correspond[s] to the most common college foundation courses.” Each portfolio is evaluated for Quality (for which actual art work is submitted and represents the students best work); Concentration (“a sustained, deep, and multiperspective” individual project); and Breadth (demonstration of a wide range of experience). Students are expected to document their process throughout with digital images and artistic choice explanation.

**World History:**

The AP World History exam is a 3 hour 5 minute examination covering two semesters of introductory college history courses. The course focuses on the following themes and concepts: “Technological and Environmental Transformations; Organization and Reorganization of Human Societies; Regional and Transregional Interactions; Global Interactions; Industrialization and Global Integration; Accelerating Global Change and Realignment.” The exam consists of a 55-minute multiple choice section and a 130-minute free response section which includes a “document based question, change over time question, [and] comparative essay.”

# **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 or 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.

In order to gain eligibility upon graduation, students must attend an A+ designated school for three consecutive years prior to 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 successfully complete the end of course exam in the area of Algebra or a subsequent mathematics end of course exam or qualifying ACT Math score.

In order 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!

**Beginning this year, 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 up to
  - 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 2 EOC during your sophomore year OR prep for your ACT English section
- ✓ Sign up for the 3<sup>rd</sup> or 4<sup>th</sup> year of your chosen World Language
- ✓ Be on the lookout for information near the end of this year or early next year for information on the community service components and the options for testing WL proficiency

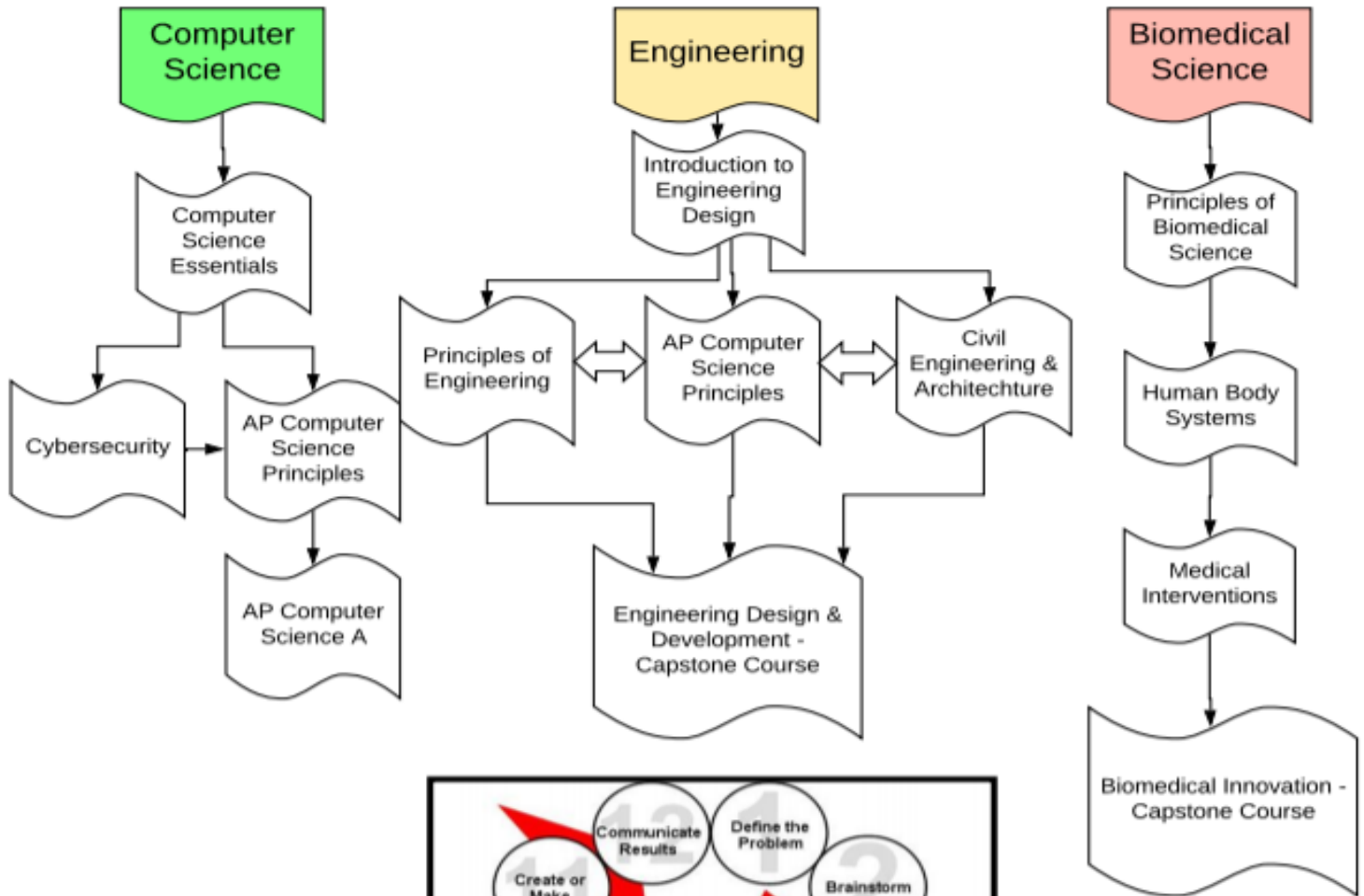
# **What's NEW**

## **2021-2022**

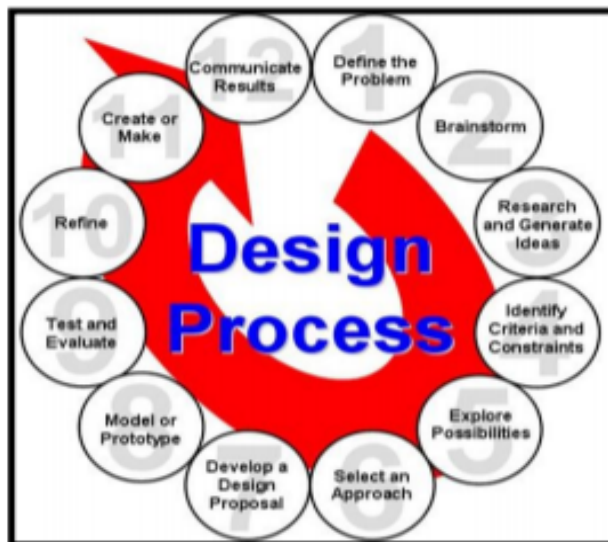
- ❖ **Virtual courses are subject to availability. Some virtual courses may be offered as All-Access courses based upon student enrollment and staffing. The following courses will be potential virtual course offerings:**
  - English 1, Honors English 1, English 2, Honors English 2, English 3, English 4, AP Literature, AP Language, Adv. College Credit Comp and Lit, Creative Writing 1 & 2
  - Algebra 1, Geometry, Honors Geometry, Geometry Lab, Algebra 2, Honors Algebra 2, Algebra 2 Lab, Honors Pre-Calculus, College Algebra, Calculus
  - Physical Science, Biology, Honors Biology, Chemistry, Honors Chemistry, Applied Science, AP Biology, AP Chemistry, Environmental Science, Forensics
  - US History, Honors US History, World Civilizations, AP World History, Government, AP US Government and Politics, College US History, Sociology, Psychology 1 & 2, Contemporary Issues, Law & You, Economics
  - Intro to Art 1, World Art, Photography, Drawing & Painting 1 & 2, AP Studio Art
  - Concert Band, Jazz Band, Orchestra, Mixed Choir, Treble Choir, Concert Choir, Madrigal Choir, AP Music Theory
  - Child Development 1, Fashion Design & Merchandising, Food Fundamentals, Housing & Interior Design, Human Relations
  - Short Film Video Production, PLTW Intro to Engineering, PLTW Principles of Engineering, PLTW AP Computer Science A, PLTW Civil Engineering Architecture
  - Physical Education, Fitness Walking, Health  
Personal Finance, Business Applications, Accounting 1, Cooperative Career Education Internship
  - Marketing, Marketing Internship
  - French 1-5, Spanish 1-5, German 1-5
  
- ❖ **Lewis and Clark new course - Law Enforcement**
  
- ❖ **New course - PLTW Cybersecurity**
  
- ❖ **Re-designed course - Creative Writing 1 will count towards 0.5 credit for the 4<sup>th</sup> year English requirement.**
  
- ❖ **Practical Arts - Name Change**
  - ❖ Fashion Design and Construction 1 replaces Clothing 1
  - ❖ Fashion Design and Construction 2 replaces Clothing 2
  - ❖ Fashion Design and Construction Studio replaces Clothing 3
  - ❖ Fashion Design and Merchandising replaces Clothing 4
  - ❖ Food Fundamentals replaces Foods 1
  - ❖ Advanced Foods: Baking and Pastry Arts replaces Food 2
  - ❖ Advanced Foods: International Foods replaces Foods 2
  - ❖ Advanced Foods: Introduction to Foodservice Industry replaces Foods 3
  - ❖ Career Pathways for the Teaching Profession 1 replaces Child Development 3
  - ❖ Career Pathways for the Teaching Profession 2 replaces Child Development 4



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. Imagine a teacher who can focus more time and energy on inspiring students. This is what happens every day in PLTW classrooms.



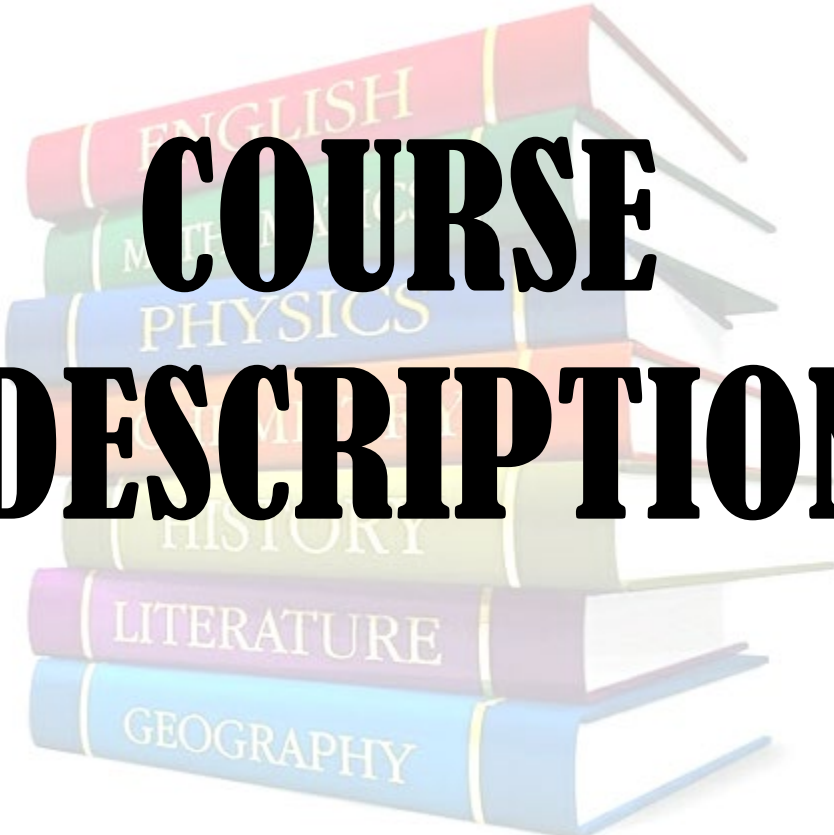
Computer Science Essentials, Computer Science Principles, and Computer Science A are also integrated into the Lewis and Clark Software Development Courses.



PLTW | Computer Science

PLTW | Engineering

PLTW | Biomedical Science



# **COURSE DESCRIPTION**

# **COMMUNICATION ARTS**

## **ENGLISH CREDIT OPTIONS FOR FRESHMAN**

All ninth-grade students will be required to complete one full year (1 credit) of one of the following courses in order to meet graduation requirements: English 1, Honors English 1 or Gifted English 1.

### **ENGLISH 1**

**(Communication Arts) 1 unit; 9; Prerequisite: None**

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. Students will be required to take an "End of Course" exam provided by the State of Missouri at the completion of English 1.

### **HONORS ENGLISH 1**

**(Communication Arts) 1 unit; 9; Prerequisite: Permit to enroll**

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 and rigorous curriculum. The course will prepare students for success in Advancement Placement and college level English courses.**

### **GIFTED ENGLISH 1**

**(Communication Arts) 1 unit; 9; Prerequisite: Students must be identified as gifted through the district gifted identification protocol and have permit to enroll**

This course will exceed expectations for English 1 while simultaneously meeting the affective needs of the gifted. The course will prepare students for success in Advancement Placement and college level English courses. Gifted 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.

## **ENGLISH CREDIT OPTIONS FOR SOPHOMORES**

All tenth-grade students will be required to complete one full year (1 credit) of one of the following courses in order to meet graduation requirements: English 2, Honors English 2, or Gifted English 2.

### **ENGLISH 2**

**(Communication Arts) 1 unit; 10; Prerequisite: None**

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 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” exam provided by the State of Missouri at the completion of English 2.

## **HONORS ENGLISH 2**

**(Communication Arts) 1 unit; 10; Prerequisite: Permit to enroll**

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 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.*

## **GIFTED ENGLISH 2**

**(Communication Arts) 1 unit; 10; Prerequisite: Students must be identified as gifted through the district gifted identification protocol and have permit to enroll**

This course will exceed expectations for English 2 while simultaneously meeting the affective needs of the gifted. The course will prepare students for success in Advanced Placement and college level English courses. 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 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.

## **ENGLISH CREDIT OPTIONS FOR JUNIORS**

**All eleventh-grade students will be required to complete one full year (1 credit) of one of the following courses in order to meet graduation requirements: English 3, Advanced Placement Language and Composition, or Advanced Placement Literature and Composition.**

### **ENGLISH 3**

**(Communication Arts) 1 unit; 11; Prerequisite: None**

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 and 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 task, purpose, and audience; and support claims while using effective evidence.

### **AP ENGLISH LITERATURE & COMPOSITION**

**(Communications Arts) 1 unit; 11 or 12; Prerequisite: None**

**NOTE:** *This class will fulfill the requirement of the 3rd or 4th year of English. Students are expected to take the AP course exam.*

This is a college level course, which prepares the 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, research skills as well as speaking and listening skills.

### **AP LANGUAGE AND COMPOSITION**

**(Communication Arts) 1 unit; 11-12; Prerequisite: None**

***NOTE: This class will fulfill the requirement of the 3rd or 4th year of English. Students are expected take the AP course exam.***

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, research skills as well as speaking and listening skills.

## **ENGLISH CREDIT OPTIONS FOR SENIORS**

**All twelfth-grade students will be required to complete one full year (1 credit) of the following courses in order to meet graduation requirements: English 4, Advanced Placement Language and Composition, Advanced Placement Literature and Composition, Advanced College Credit: Composition, or Advanced College Credit: Literature, and/or Creative Writing 1.**

### **ENGLISH 4**

**(Communication Arts) 1 unit; 12; Prerequisite: None**

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 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**

**(Communication Arts) 1/2 unit; 12; Prerequisite: None if taken for High School credit only.**

**If taken for 3 credit hours from the University, students must have a 3.0 cumulative GPA as required and permit to enroll. NOTE: *Students may earn three hours of college credit by successfully completing this course and remitting a fee to the University for the course.***

This course introduces students to writing for the purposes of 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**

**(Communication Arts) 1/2 unit; 12; Prerequisite: Advanced College Credit: Composition. If taken for 3 credit hours from a University, students must also have a 3.0 cumulative GPA as required permit to enroll. This course may also be taken for High School credit only.**

**NOTE: Students may earn three hours of college credit by successfully completing this course and remitting a fee to the University for the course.**

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 plays in the creation of the whole person.

## **CREATIVE WRITING 1**

**(Communication Arts) 1/2 unit; 10-12; Prerequisite: None**

Students will use original ideas and individuality to increase fluency and to 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 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.

## **ELECTIVE ENGLISH COURSES**

***\*The following courses do not fulfill the English Graduation Requirements***

### **SPEECH 1**

**(Elective) 1/2 unit; 9-12; Prerequisite: None**

Speech I 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 deliver 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) 1/2 unit; 9-12; Prerequisite: Speech 1**

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) 1/2 unit; 9-12; Prerequisite: Speech 1 Permit to enroll**

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, Politics or simply interested in improving their own personal discourse are highly encouraged to enroll in Debate.

### **CREATIVE WRITING 1 (ALSO FOURTH YEAR ENGLISH OPTION)**

**(Elective) 1/2 unit; 10-12; Prerequisite: None**

Students will use original ideas and individuality to increase fluency and to 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 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.

## **CREATIVE WRITING 2**

**(Elective) 1/2 unit; 10-12; Prerequisite: Creative Writing 1**

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 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) 1/2 unit; 9-12; Prerequisite: None**

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) 1 unit; 10-12; Prerequisite: Permit to enroll. Journalism recommended.**

**NOTE: This course may be repeated for credit.**

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) 1 unit; 10-12; Prerequisite: Journalism and/or permit to enroll. NOTE: This course may be repeated for credit.**

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) 1 unit; 9-10; Prerequisite: Permit to enroll NOTE: This course may be repeated for credit.**

This course is designed for students who are currently enrolled in English 1 and/or English 2 who may need individualized support and instruction. English: College/ Career Readiness is an opportunity to improve the reading, writing and language skills necessary to pre- pare for future course work in English and success in a post-secondary setting.

## **ENGLISH: CAREER COLLEGE READINESS**

**(Elective) 1 unit; 11-12; Prerequisite: Permit to enroll NOTE: This course may be repeated for credit.**

This course is designed for students who are currently enrolled in English 3 and/or English 4 who may need individualized support and instruction. English: College/ Career Readiness is an opportunity to improve the reading, writing and language skills necessary to pre- pare for future course work in English and success in a post-secondary setting.

# **WORLD LANGUAGE**

## **FRENCH 1**

**(World Language) 1 unit; 9-12; Prerequisite: None**

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) 1 unit; 9-12; Prerequisite: French 1**

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) 1 unit; 10-12; Prerequisite: French 2**

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) 1 unit; 11-12; Prerequisite: French 3**

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.

## **FRENCH 5**

**(World Language) 1 unit; 12; Prerequisite: French 4**

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) 1 unit; 9-12; Prerequisite: None**

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) 1 unit; 9-12; Prerequisite: German 1**

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) 1 unit; 10-12; Prerequisite: German 2**

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 understand the history, geography, and culture of the country through the study of modern literature.

### **GERMAN 4**

**(World Language) 1 unit; 11-12; Prerequisite: German 3**

Students will further develop skills learned in the previous three courses. German IV places more places more emphasis on reading and on understanding the spoken language of native speakers. Students will work with selections written by Germans and will increase their ability to use self-expression.

### **GERMAN 5**

**(World Language) 1 unit; 12; Prerequisite: German 4**

Students will continue their study of the 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) 1 unit; 9-12; Prerequisite: None**

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) 1 unit; 9-12; Prerequisite: Spanish 1**

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) 1 unit; 10-12; Prerequisite: Spanish 2**

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) 1 unit; 11-12; Prerequisite: Spanish 3**

The emphasis of this course continues to be more toward 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.

### **SPANISH 5**

**(World Language) 1 unit; 12; Prerequisite: Spanish 4**

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 reading of poems, short stories and dramatic works of well-known Spanish and Latin American authors from different historical periods. Class discussion and assignments for this course will be entirely in Spanish.

# **SOCIAL STUDIES**

## **SOCIAL STUDIES CREDIT OPTIONS FOR FRESHMEN**

### **U.S. HISTORY**

**(Social Studies) 1 unit; 9; required; prerequisite: None**

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.

**OR**

### **HONORS U.S. HISTORY**

**(Social Studies) 1 unit; 9; Prerequisite: signature of instructor to enroll**

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, Great War, Great Depression, World War II, Cold War era, 1980's and the 21st century. This course is a continuation of 8th grade American History that covers the Colonial period through the Civil War.

## **SOCIAL STUDIES CREDIT OPTIONS FOR SOPHOMORES**

### **WORLD CIVILIZATION**

**(Social Studies) 1 unit; 10; required; prerequisite: None**

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.

*(Please note: Students may take either A.P. World History or A.P. European History sophomore year in lieu of the World Civilization graduation requirement.*

## **SOCIAL STUDIES CREDIT OPTIONS FOR JUNIORS**

### **GOVERNMENT**

**(Social Studies) 1 unit; 11; required; prerequisite: None**

The history, institutions, branches, functions, electoral processes, and citizens' role 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. *(Please note: Students may take A.P. Government and Politics junior year in lieu of the Government graduation requirement.*

## **ELECTIVE SOCIAL STUDIES COURSES FOR GRADES 10, 11, and 12**

### **CULTURAL GEOGRAPHY**

**(Social Studies) 1/2 unit; 10-12; prerequisite: None**

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**

**(Social Studies) 1/2 unit; 11-12; prerequisite: Passed US History & currently enrolled in Government**

This course is dedicated to empowering young people through law-related education. Students will learn practical information about 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**

**(Social Studies) 1/2 unit; 11-12; prerequisite: None**

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**

**(Social Studies) 1/2 unit; 11-12; prerequisite: None**

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 is concluded with the study of human growth and development from infancy through early childhood.

## **PSYCHOLOGY 2**

**(Social Studies) 1/2 unit; 11-12; prerequisite: None; It is not necessary to have had Psychology 1 before taking Psychology 2. The courses are separate and distinct in content.**

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.

## **CONTEMPORARY ISSUES**

**(Social Studies) 1/2 unit; 11-12; prerequisite: None**

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**

**(Social Studies) 1/2 unit; 11-12; prerequisite: None**

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 emphasis on "free enterprise."

# **COLLEGE CREDIT COURSES**

## **COLLEGE U.S. HISTORY 1 & 2**

**HSX-260-46 HISTORY OF THE US UNTIL 1865**

**HSX-261-46 HISTORY OF THE US SINCE 1865**

**University designation**

**(Social Studies) 1 unit: 11 -12; Prerequisite: 3.0 cumulative GPA required; Signature of instructor is required for enrollment**

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.

### **AP WORLD HISTORY**

**(Social Studies) 1 unit; 10-12; prerequisite: None**

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 time period from 1000 C.E. to the present with emphasis upon 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 select 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) 1 unit; 10-12; prerequisite: None**

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 select 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.**

### **AP UNITED STATES GOVERNMENT AND POLITICS 1 & 2**

**(Social Studies) 1 unit; 11-12; prerequisite: None**

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 policy making 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. Class members taking this class may participate in the national constitutional issue's 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. Students may take AP U.S. Government and Politics junior year in lieu of the Government graduation requirement.**

### **AP PSYCHOLOGY**

**(Social Studies) 1 unit; 11-12; prerequisite: None**

The AP Psychology course is year-long 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.



# **MATHEMATICS**

## **ALGEBRA 1**

**(Math) 1 unit; 9-12; Prerequisite: None**

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) 1 unit; 9-12; Prerequisite: Students must be enrolled simultaneously in Algebra 1 and have teacher recommendation to enroll NOTE: This unit of credit does not count toward fulfilling the minimum credits required for graduation in mathematics. It does, however, count toward elective credit.**

This course is designed for students who are currently enrolled in Algebra 1 that may need additional time, support, and instruction in order to be successful in mastering the Algebra 1 concepts. The objectives of the Algebra 1 Math Lab include the development of the foundation in Algebra and the remediation of basic skills.

## **GEOMETRY**

**(Math) 1 unit; 9-12; prerequisite: Algebra 1 and signature of instructor to enroll**

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) 1 unit; 9-12; Prerequisite: Students must be enrolled simultaneously in Geometry and have teacher recommendation to enroll. NOTE: This unit of credit does not count toward fulfilling the minimum credits required for graduation in mathematics. It does, however, count toward elective credit.**

This course is designed for students who are currently enrolled in Geometry that may need additional time, support, and instruction in order to be successful mastering the Geometry concepts. The objectives of Geometry Math Lab include the development of foundation in Geometry and the remediation of basic skills.

## **HONORS GEOMETRY**

**(Math) 1 unit; 9-12; prerequisite: A or B in Algebra I and signature of instructor to enroll**

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) 1 unit; 10-12; prerequisite: Algebra 1, Geometry and signature of instructor to enroll**

Algebra 2 includes a more advanced study of the functions introduced in Algebra 1. The number system will be extended to include the complex numbers. The course will include advanced operations, solving, graphing, and writing the following: systems of equations, polynomial, radical, exponential, logarithmic, and rational functions. Purchase of a graphing calculator is strongly recommended.

## **ALGEBRA 2 LAB**

**(Elective) 1 unit; 10-12; prerequisite: Students must be enrolled simultaneously in Algebra 2 and have teacher recommendation to enroll. NOTE: This unit of credit does not count toward fulfilling minimum credits required for graduation in mathematics. It does, however, count toward an elective credit.**

This course is designed for students who are currently enrolled in Algebra 2 that may need additional time, support, and instruction in order 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) 1 unit; 10-12; prerequisite: A in Algebra 1, A or B in Geometry and signature of instructor to enroll**

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, 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. Purchase of a graphing calculator is strongly recommended.

## **INTEGRATED MATH 1**

**(Math) 1/2 unit; 11, 12; Prerequisite: Algebra 1, Geometry, taken Algebra 2**

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) 1/2 unit; 11, 12; Prerequisite: Algebra 1, Geometry, taken Algebra 2**

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 in 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 backwards.

## **AP STATISTICS**

**(Math) 1 unit; 10-12; prerequisite: Algebra 1, Geometry, Algebra 2**

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.

## **HONORS PRE-CALCULUS**

**(Math) 1 unit; 11-12; prerequisite: Algebra 1, Geometry, Algebra 2**

Pre-calculus is an advanced course emphasizing a wide variety of functions including polynomials, exponential, logarithmic, 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.

# College Course Credit

## **COLLEGE ALGEBRA**

**Math 10300-College Algebra (University)**

**(Math) 1 Unit: 11-12; prerequisite: If taken for 3 credit hours from a University, students must have a 2.5 cumulative: GPA as required and permit to enroll. NOTE: Students may earn three hours of college credit by successfully completing this course and remitting a fee to the University for the course.**

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.

## **CALCULUS**

**Math 1800-Analytic Geometry and Calculus 1 (University)**

**(Math) 1 Unit; 12; prerequisite: "C" in Pre-Calculus and the signature of instructor to enroll. If taken for 5 credit hours from a University, students must have a 3.0 GPA as required from a university. College Credit: Students may earn five hours of college with a minimum "C" average and remitting 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.**

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, an 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) 1 unit; 9-12; prerequisite: None**

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.

## **HONORS BIOLOGY 1**

**(Science) 1 unit; 9-12; prerequisite: Signature of an instructor.**

This course is designed to prepare talented student for eventual enrollment in Advanced Placement Science while learning about life processes expressed in both the unity and diversity of life. 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.

## **BIOLOGY 1**

**(Science) 1 unit; 10-12; prerequisite: None**

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, field work, 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.

## **CHEMISTRY**

**(Science) 1 unit; 11-12; prerequisite: Completion of Biology and Physical Science**

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 1**

**(Science) 1 unit; 10-11; prerequisite: Completion of Biology or Honors Biology, concurrent enrollment in Algebra 2 and signature of instructor is required for enrollment**

Honors Chemistry is a challenging course covering traditional Chemistry topics. The intent of this course is to prepare talented students for eventual enrollment in Advanced Placement Science. It is designed for students who will be majoring in Science or Engineering in college.

## **PHYSICS**

**(Science) 1 unit; 11-12; prerequisite: Concurrent enrollment in Chemistry or Honors Chemistry and concurrent enrollment in Algebra 2 or higher math course**

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 1**

**(Science) 1 unit; 11-12; prerequisite: Chemistry or Honors Chemistry, concurrent enrollment in Pre-calculus and signature of instructor is required for enrollment**

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) 1 unit; 11-12; prerequisite: Completion of Honors Biology or Biology and Chemistry or Honors Chemistry (Students can be concurrently enrolled in Chemistry with instructor approval)**

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 the cat dissection. The curriculum will also cover forensics, ecology, anatomy and physiology as well as microbiology.

## **ENVIRONMENTAL SCIENCE**

**(Science) 1/2 unit; 11-12; prerequisite: Completion of Biology or Honors Biology (Students can be concurrently enrolled in Chemistry with instructor approval)**

Environmental Science is a one semester class. Students will learn about the interactions of humans, animals, and the environment. Topics will include Environmental chemistry and environmental biology.

## **FORENSIC SCIENCE**

**(Science) 1/2 unit; 11-12; prerequisite: Completion of Biology or Honors Biology; concurrent enrollment in Chemistry**

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) 1 unit; 11-12; prerequisite: Students must complete Biology 1 and Physical Science; Signature of instructor is required for enrollment (Note: Course is not NCAA approved)**

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 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) 1/2 unit; 11-12; Prerequisite: AP Chemistry NOT to meet AP requirements students must enroll 2nd semester in AP Chemistry Lab**

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, thermo chemistry, and chemical equilibrium.

## **AP CHEMISTRY LAB**

## **AP PHYSICS**

**(Science) 1 unit; 12; prerequisite: Concurrent enrollment in Calculus**

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) 1 unit; 11-12; prerequisite: completion of Chemistry; concurrent enrollment in Chemistry**

This course is equivalent to a college level introductory biology course. Students cultivate their understanding through inquiry-based investigations as they explore the following topics; Evolution, cellular processes energy and communication, genetics, information, ecology and interactions.

## **(PLTW) PRINCIPLES OF BIOMEDICAL SCIENCES**

**(Science Elective) 1 unit; 9-12; prerequisite: None 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.***

Students will explore concepts of biology and medicine to determine 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) 1 unit; 10-12; prerequisite: PLTW Principles of Biomedical Sciences.**

Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real-world cases, and often play the role of biomedical professionals to solve medical mysteries. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Through projects such as determining the identity of a skeleton using both forensic anthropology and DNA analysis, students examine the interactions of human body systems and apply what they know to solve real-world medical cases.

## **(PLTW) MEDICAL INTERVENTIONS**

**(Science) 1 unit; 10-12; prerequisite: PLTW Human Body Systems**

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.

## **SCIENCE RESEARCH**

**(Science Elective) 1 unit; 10-12; Prerequisite: Signature of instructor is required for enrollment; 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.**

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, 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 written report and an oral presentation. Participation in a science symposium/fair in April is expected. Student must come with an idea for the project and get the permission of a science instructor in that area in order to enroll. This course may be taken for more than one year if there search project can continue or be expanded.

## **(PLTW) BIOMEDICAL INNOVATION**

**1 unit; 10-12; prerequisite: PLTW Medical Interventions**

In this course, students build on the knowledge and skills gained from previous courses to design their own innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent project with a mentor or advisor from a university, medical facility, or research institution.

# **FINE ARTS/VISUAL ARTS**

## **INTRODUCTION TO ART 1**

**(Fine Arts) 1/2 unit; 9-12; prerequisite: None**

This course is a foundation for the advanced courses in the art department. Its purpose is to expose the student to basic art concepts and processes. Units of study include Introduction to Art and Aesthetics, Line, shape Form, Value, and Color, Space, and Texture and movement.

## **WORLD ART**

**(Fine Arts) 1/2 unit; 9-12; Prerequisite: Introduction to Art 1 or signature of instructor with approved portfolio**

Students will explore art techniques such as drawing and painting as well as get introduced to clay and sculptural methods. In addition, we will work with a variety of art materials such as fiber arts, printmaking, collage, and much more. While creating art, students will learn about what inspires artists from all over the world (i.e. Native-American, Asian, African, Hispanic, and more). This course offers a lot of choice and will continue to teach design concepts through art making while providing cultural learning opportunities. Come travel the world and make some art!

## **PHOTOGRAPHY**

**(Fine Arts) 1/2 unit; 11-12; prerequisite: None**

Students will study digital photography as an art form, as well as photojournalism. 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 1**

**(Fine Arts) 1/2 units; 9-12; prerequisite: Introduction to Art 1 or signature of instructor with approved portfolio**

This course includes an exploration of basic sculptural and ceramic techniques, with an emphasis on design and sculptural composition. A wide variety of materials and techniques including plaster, wood, metal, clay and mixed media are included in study units relating to sculpture.

## **CERAMICS/SCULPTURE 2**

**(Fine Arts) 1/2 unit; 9-12; prerequisite: Ceramics/Sculpture 1**

This course is a continuation of Ceramics and Sculpture 1. Students will experience hand building and wheel throwing ceramic forms. There is a continuing emphasis on plaster, wood, metal, clay and mixed media.

## **DRAWING/PAINTING 1**

**(Fine Arts) 1/2 unit; 9-12; prerequisite: Introduction to Art 1 and 2 or signature of instructor with approved portfolio**

Experiences with various drawing and painting media such as pencil, conte, chalk, pen and ink, watercolor and acrylic are included in this course with an emphasis on technique. Subject matter includes figure, portraits, landscape and still life. Most projects will be realistic in style.

## **DRAWING/PAINTING 2**

**(Fine Arts) 1/2 unit; 9-12; prerequisite: Drawing/Painting 1**

A continuation of Drawing/Painting 1, the course includes further involvement with various drawing and painting techniques and media. Projects emphasizing creativity and self-expression form major segments of the course work.

## **CREATIVE GRAPHIC DESIGN**

**(Fine Arts) 1/2 unit; 9-12; prerequisite: Introduction to Art 1**

The field of graphic design ranges from animation to advertising, game design to illustration. Graphic designers produce ideas and experiences with images, text and graphics, and all of these topics will be covered in this course. Students will learn how to use design elements and composition in creating digital artwork with programs and applications. Visual communication will be explored by studying the power of color, the impact of lettering, and the importance of design.

## **AP STUDIO ART**

**(Fine Art) 1-2 units; 9-12; prerequisite: two semesters of Art or permit to enroll through portfolio work. This course can be repeated to fulfill all options of AP Studio Art.**

This is an intense one to two-year program taken the junior and senior year for those who are serious in continuing their education in the field of art. The AP course will build a professional portfolio over the course of the program. Enhancing the quality of student work, developing a concentration based on a visual interest, and increasing breadth of experiences in visual art are the goals of the class. Class size will be limited to allow the teacher and students to work in close cooperation as college credit for AP Studio Art is based upon submission of a portfolio for evaluation

# **INSTRUMENTAL MUSIC**

## **CONCERT BAND**

**(Fine Arts) 1 unit; 9-12; prerequisite; None; enrollment in both semesters is required; approval of instructor required for enrollment**

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 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 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 ensembles festivals. Study of music in this class will benefit the student who wishes to pursue music as a career.

## **JAZZ BAND**

**(Fine Arts) 1 unit; 9-12; prerequisite; none; signature of instructor required for enrollment**

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 audition for honors jazz ensembles. The recommended instrumentation includes saxophones, trumpets, piano, guitar, bass guitar, and drum set.

## **ORCHESTRA**

**(Fine Arts) 1 unit; 9-12; prerequisite: signature of instructor required for enrollment**

Students will rehearse and perform a variety of traditional and contemporary orchestral literature, 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 is encouraged. Members of the orchestra are also encouraged to audition for the All-Suburban Orchestra and All-State Orchestra.

# **VOCAL MUSIC**

The choirs are open to students in grades 9 through 12. All choirs perform in public concerts throughout the year and provide the student with an opportunity to develop proper vocal technique through correct posture, breath control, basic diction principles, and a pleasant singing tone.

## **MIXED CHOIR**

**(Fine Arts) 1 unit; 9-12; prerequisite: signature of instructor required for enrollment**

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, including staging and movement. The course will culminate in a variety of performance-based assessments, some of which may occur outside of the school day.

## **TREBLE CHOIR**

**(Fine Arts) 1 unit; 9-12; prerequisite: signature of instructor required for enrollment**

Treble Choir is an auditioned ensemble of female's 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 literatures from all historical periods of music. Students will also study vocal technique and practice performing skills, including staging and movement. This choir enters large ensemble and solo/small ensemble competitions at the 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.



## **CONCERT CHOIR**

**(Fine Arts) 1 unit; 9-12; prerequisite: signature of instructor required for enrollment**

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, including staging and movement. This choir may participate in choral festivals and enters 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.

## **CHAMBER CHOIR/MADRIGAL CHOIR**

**(Fine Arts) 1 unit; 10-12; prerequisite: signature of instructor required for enrollment**

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, including staging and movement. This choir enters large ensemble and solo/small ensemble competitions at the district and state levels. This choir also performs in the community for civic organizations. The course will culminate in a variety of performance-based assessments, some of which may occur outside of the school day.

## **AP MUSIC THEORY**

**(Fine Arts) 1 unit; 10-12; prerequisite: signature of instructor required for enrollment**

The Advance Placement Music Theory course will take the students through a musical training comparative to that of a collegiate level training in the areas of reading and analyzing notated music and aural training. Students enrolled in AP Music Theory will study the basic elements of music; melody, harmony, and rhythm, in music of the Common Practice period (1600-1900). AP Music Theory will contain aural training, dictation, analysis, and compositional skills thus promoting total musical literacy. At the end of this course students will be prepared to take the AP Music Theory examination and enter a college music program

# **THEATRE**

## **THEATRE I - INTRODUCTION TO PUBLIC PERFORMANCE**

**(Fine Arts) 1/2 unit; 9-12; prerequisite: None**

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, 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 - ACTING AND THEATRE APPRECIATION**

**(Fine Arts) 1/2 unit; 9-12; prerequisite: Theatre I**

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) 1/2 unit; 9-12; prerequisite: Theatre I/Theatre II, Permit to Enroll**

**Form/Audition. Students may enroll in this course more than once as class activities will change each semester**

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) 1/2 unit; 9-12; prerequisite: Theatre I/ Theatre II, Permit to Enroll. Students may enroll in this course more than once as class activities will change each semester**

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 Sciences (FACS)**

### **FASHION DESIGN AND CONSTRUCTION 1**

**(Practical Arts) 1/2 unit; 9-12; Prerequisite: None**

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) 1/2 unit; 9-12; Prerequisite: Clothing and Textiles 1**

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) 1/2 unit; 10-12; Prerequisite: Fashion Design and Construction 1 and 2**

**Signature of instructor is required for enrollment \*\*This course can be taken multiple times for credit\*Instructor permission to enroll.**

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. \*\*This course can be taken multiple times for credit. \*\*

### **FASHION DESIGN AND MERCHANDISING**

**(Practical Arts) 1/2 unit; 11-12; No Prerequisite**

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) 1/2 unit; 9-12; Prerequisite: None**

This introductory semester course exposes students to the relationship of food science and nutrition principles to 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) 1/2 unit; 9-12; Prerequisite: Food Fundamentals**

This semester 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 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) 1/2 units; 9-12; Prerequisite: Food Fundamentals**

This semester course will continue with the principles introduced in Food Fundamentals and expand into creative baking. Units on quick breads, yeast breads, 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: FOODSERVICE INDUSTRY**

**(Practical Arts) 1/2 unit; Instructor permission to enroll, 11-12; Prerequisite: Food Fundamentals, Baking and Pastry Arts, & Regional and International Foods**

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 on 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) 1/2 unit; 9-12; prerequisite: None**

Child Development I is an introduction 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 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) 1/2 unit; 9-12; prerequisite: Child Development 1**

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 example best practices and developmentally appropriate activities to use when working with pre-school 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) 1/2 unit; 11-12; Prerequisite: Child Development 1 and 2 are highly recommended to take before this course \*\*\*Instructor permission to enroll**

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 qualities and skills necessary for working effectively with students in educational settings. Students will receive practical experience with children in community preschools, day care centers, and elementary & secondary school settings. This course is highly recommended for those wanting to explore careers working with children. \*\*\*Instructor permission to enroll.

## **CAREER PATHWAYS FOR THE TEACHING PROFESSION 2**

**(Practical Arts) 1/2 unit; 11-12; Prerequisite: Career Pathways for the Teaching Profession 1 is a required prerequisite; Child Development 1 and 2 are highly recommended to take before Career Pathways for the Teaching Profession 1 & 2**

**\*\*\*Instructor permission to enroll**

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 qualities and skills necessary for working effectively with children in educational settings. This course focuses on educational policy in regards to educational systems. Students will receive practical experience working with children in community preschools, daycare centers, elementary and secondary school settings. This course is highly recommended for those wanting to explore careers working in an educational setting. \*\*\*Instructor permission to enroll

## **HUMAN RELATIONS**

**(Practical Arts) 1/2 unit; 11-12; prerequisite: None**

This course will prepare individuals to understand the function of the family and the importance in 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 equip to handle a crisis, if one arises. It allows the 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 life style will ensure t h e y meet their goals and become productive members of society.

## **HOUSING AND INTERIOR DESIGN**

**(Practical Arts) 1/2 unit; 10-12; prerequisite: None**

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 as 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 as "Do it yourself" projects on their own.

## **HEALTH AND WELLNESS**

**(Practical Arts) 1/2 unit; 9-12; prerequisite: None. This class fulfills the Health graduation requirement**

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.

## **ADAPTIVE FACS**

**(Practical Arts) 1/2 unit; 9-12; No Prerequisite**

This course will prepare individuals by providing life skills in the Family and Consumer Sciences curriculum. This course will go through several units of study such as, Child Development, Housing, Personal Finance, Human Relationships, Foods and Nutrition, and Clothing. They will learn the basics of each of these areas.

# **BUSINESS EDUCATION**

## **BUSINESS APPLICATIONS**

**(Meets computer course graduation requirement) Practical Art 1/2 Unit; 9-12; prerequisite: none**

Business Applications will build upon the computer skills established in the elementary and middle school Technology Curricula. Students will learn Microsoft Office and Google programs including Word, Excel, PowerPoint, Google Docs, Google Sheets, and Google Slides. In addition, this course will cover Gmail etiquette, communication skills, and students will be introduced to the Adobe software suite. This course will give all students the tools necessary to achieve success in today's technological world.

## **INTRODUCTION TO BUSINESS**

**(Practical Arts) 1/2 unit; 9-10; prerequisite: none**

This is a study of basic business as applied in everyday living. Some of the units studied are our economic system, operation of businesses, marketing functions, entrepreneurship, using banking services, money management, credit and installment buying, planning careers, letters of application, resumes and interviews.

## **VISUAL DESIGN (PHOTOSHOP)**

**(Meets computer course graduation requirement) Practical Art 1/2 unit; 9-12; prerequisite: none**

This course prepares students for ACA (Adobe Certification Associate) in visual design using Photoshop. This activity-based curriculum teaches skills for image editing and illustration techniques. Learn how to manipulate photos, create graphical images, and design documents and files for use in today's technological world. Learn to create posters, flyers, banners. Students will be introduced to working with vector graphics using Adobe Illustrator as well.

## **MULTIMEDIA (PREMIERE PRO/AFTER EFFECTS)**

**(Meets computer course graduation requirement) Practical Art 1/2 unit; 10-12; prerequisite: none**

This course prepares students for the ACA (Adobe Certification Associate) Video Certification using Adobe Premiere Pro. This is an activity-based curriculum that teaches technical skills used for video production, editing, and effects. Students will complete a variety of related projects using various editing skills. Learn to create short films, public service announcements (PSAs), commercials, marketing campaigns and much more. Students will be introduced to working with special effects using Adobe After Effects.

## **DIGITAL MEDIA (IN DESIGN)**

**(Meets computer course graduation requirement) Practical Art 1/2 unit; 10-12; prerequisite: none**

This course prepares students for ACA (Adobe Certification Associate) in Print and Digital Media Publication. Adobe InDesign is an activity-based syllabus that teaches design and layout techniques for producing high quality documents for print and on-screen delivery. Each activity contains a small task within so students are learning and refining their skills as they complete each task. Each activity also contains student guides to use in order to learn the technical skills required to complete each task.

## **WEB DESIGN**

**(Meets computer course graduation requirement) Practical Art 1/2 unit; 10-12; prerequisite: none**

The Web Design course is a project-based course that teaches students how to use a variety of design software to organize, create and design their own web pages. Students will also learn some basic and advanced functions of the coding languages HTML and CSS. By the end of this course, students will be able to explain how web pages are developed, analyze and fix errors in existing websites, and create their very own multi-page websites.

## **BUSINESS LAW**

**(Practical Arts) 1/2 unit; 10-12; prerequisite: none**

Business Law is designed to introduce the student to subject matter including many legal principles, which are expressed in clear and understandable language. The student studies rights and duties of members in society, tort law (civil law), criminal law, and court systems. Students will also study concepts in contract law.

## **BUSINESS MANAGEMENT**

**(Practical Arts) 1/2 unit; 10-12; prerequisite: none**

This class is designed to introduce basic management principles and to acquaint the student with operating a business successfully. The student will study characteristics of business organization, social and ethical responsibilities of business, international environment, basic economic concepts, and various forms of business organization, effective business communication practices, management responsibilities, and human resource management.

## **ACCOUNTING I**

**(Practical Arts) 1 unit; 10-12; prerequisite: none**

The basic principles of accounting will be studied and a variety of accounting careers will be explored. Accounting is designed to study a wide range of accounting records that are used by businesses; computerized applications will be used along with traditional recording methods to give the student an in-depth understanding of the accounting process. It will help the student, college-bound or non-college bound, to be successful in personal and professional financial affairs.

## **ACCOUNTING II**

**(Practical Art) 1 unit; 11-12; prerequisite: passing grade in Accounting I and recommendation by teacher**

This is a two-semester course emphasizing corporate accounting. Computerized procedures for journals, ledgers, financial statements and tax procedures will be used. This course will integrate accounting practices and related computer skills to prepare advanced students, both college-bound and vocational, for future employment.

## **BROADCAST MEDIA**

**(Practical Art) 1 unit; 11-12; prerequisite: Visual Design and Multimedia or concurrent and signature required for enrollment**

This year-long course focuses on guiding students to use the same digital video technology found in top newsrooms while utilizing the digital-editing computer skills learned in previous computer classes. The students will work in production teams to plan and develop stories, gather footage, edit broadcast quality video, and deliver the news. The students will help create a school/campus newsroom facility for reporting events in their community via the school, Internet, cable TV and DVD/Blu-Ray.

# **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) 1 unit; 11-12; Prerequisite: None**

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, how to find a job, money management, business applications, soft skills, effective communication skills, and the impacts of the global economy. CCE expands opportunities for all students and exposes them to a broad array of career

opportunities, work philosophies, and work environments. Job shadowing is also a key unit which provides students opportunities to see the workplace in action.

### **CO-OP CAREER EDUCATION INTERNSHIP**

**(Practical Arts) 1-2 units; 11-12; Prerequisite: must be dual enrolled in the Cooperative Career Education class.**

Internship is a work experience program designed to put the business student in a paying job. In cooperation with the school and the employer, the student will apply his/her business knowledge as taught in the related business class. Students will work a minimum of 10 hours a week for each credit hour (2 credit maximum) at an approved business job.

## **COMPUTER SCIENCE**

### **(PLTW) COMPUTER SCIENCE ESSENTIALS**

**(Meets computer graduation requirement) Practical Art 1 unit; 9-12; Prerequisite: None**

Students will learn the fundamentals of computer programming and build computational-thinking skills, then apply what they know to design solutions such as crowd sourcing apps for mobile devices using MIT App Inventor®. Students will also transfer the understanding of programming gained in App Inventor® to text-based programming in Python® and apply their knowledge to create algorithms for games of chance and strategy. This is the introductory Project Lead the Way (PLTW) course in the Computer Science pathway.

### **(PLTW) AP COMPUTER SCIENCE PRINCIPLES**

**(Practical Art) 1 unit; 10-12; Prerequisite: PLTW Computer Science Essentials OR PLTW Introduction to Engineering Design.**

Using Python® as a primary tool, 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 for mobile devices, automate tasks in a variety of languages, find patterns in data, and interpret simulations. Students collaborate to create and present solutions that can improve people's lives.

### **(PLTW) AP COMPUTER SCIENCE A**

**(Practical Art) 1 unit; 10-12; Prerequisite: PLTW AP Computer Science Principles**

Computer Science A focuses on further developing computational-thinking skills through the medium of Android™ App development for mobile platforms. The course utilizes industry-standard tools such as Android Studio, Java™ programming language, XML, and device emulators. Students collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and Web-based databases. This course aligns with the AP SC A course and is open to students who have completed both Computer Science Essentials and Computer Science Principles

### **(PLTW) CYBERSECURITY**

**(Practical Art) 1 unit; 10-12; Prerequisite: PLTW Computer Science Essentials**

Whether seeking a career in the growing field of cybersecurity or learning to defend their own personal data or a company's data, 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 a program designed to provide students with a foundation to immediately enter the world of work or to support future advanced coursework in marketing, business, entrepreneurship, and management. Students are expected to participate in DECA.*

## **MARKETING 1**

**(Practical Art) 1 unit; 10-12; Prerequisite: None**

This course emphasizes marketing principles and introduces students to marketing careers, one of the top career areas in the global economy. Topics covered include marketing, economics, careers, communications, selling, promotion, market planning, pricing, and marketing operations. Computer projects, presentations, and teamwork are an important part of this class. 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.

## **SPORTS AND ENTERTAINMENT MARKETING**

**(Practical Art) 1/2 unit; 10-12; Prerequisite: Either Marketing 1, or dual enrolled, or with teacher/counselor approval**

This course is designed to introduce the role of marketing applications in the sports and entertainment industries. Areas of study include: advertising, selling, pricing, distribution, communications, human relations, and product development. The marketing and management functions can be applied in amateur or professional sports or sporting events, entertainment or entertainment events, selling or renting of supplies and equipment (other than vehicles) used for recreational or sporting purposes, products and services related to hobbies or cultural events or businesses primarily engaged in satisfying the desire to make productive, or enjoyable use of leisure time. The course is project-based and will stress the importance of teamwork and the use of technology in order to complete assignments. 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.

## **TRAVEL AND TOURISM MARKETING**

**(Practical Art) 1/2 unit; 10-12; Prerequisite: Either Marketing 1 or dual enrolled, or with teacher/counselor approval**

This course is designed to introduce the role of marketing applications in the travel and tourism industries. The program prepares individuals to manage travel-related enterprises and related convention and/or tour services. It includes instruction in travel agency management, tour arranging and planning, convention and event planning, travel industry operations and procedures, tourism marketing and promotion strategies, travel counseling, travel industry law, international and domestic operations, and travel and tourism policy. The course is project-based and will stress the importance of teamwork and the use of technology in order to complete assignments. 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) 1-2 units; 11-12; Prerequisite: Must be dual enrolled in a Marketing/Business class. (Marketing 1, Business Management, Merchandising Lab, Sports and Entertainment, or Travel and Tourism.)**

Marketing Internship (11-12) is a work experience program designed to put the marketing education student in a paying marketing job. In cooperation with the school and the employer, the student will apply his/her marketing knowledge as taught in the related marketing class. Students will work a minimum of 10 hours a week for each credit hour (2 credit maximum) at an approved marketing job. The second year, students must have satisfactorily completed year 1 of Cooperative Marketing Education, have instructor's approval and be enrolled in a marketing or business class (as listed above). Students continue in paid marketing positions using the skills learned in the marketing class. Students work a minimum of 10 hours for each credit hour (2 credit maximum) at an approved marketing job with cooperation of their employers and the school. 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) 1 unit; 11-12; Prerequisite: Marketing 1, approval of instructor or counselor to enroll.**

Retail Merchandising Lab gives the students an opportunity to handle a cash/ credit operation, set-up displays, prepare advertisements, use the computer to keep accurate accounting records, select and order merchandise to sell in the 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) 1/2 unit; 9-12; Prerequisite: None; Students are required to purchase supplies for projects**

Home Repairs provides the basic information needed to understand and use hand tools, power tools, fasteners, and assorted building material 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.

### **DESIGN AND MACHINING PROCESS**

**(Practical Arts) 1 unit; 9-12; Prerequisite: None; Students are required to purchase supplies for projects**

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 is a key component of this class. First semester is reserved for learning safety procedures, materials, and hand and power equipment through bookwork, lecture and producing an instructor designed project. Second semester students will develop and produce a project of their own design.

### **ADVANCED DESIGN & MACHINE PROCESSES**

**(Practical Arts) 1 unit; 10-12; Prerequisite: Design and Machine Process or Home Repairs and signature of instructor required for enrollment; students are required to purchase supplies for projects**

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 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 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)

### **GRAPHIC AND ELECTRONIC MEDIA**

**(Practical Arts) 1/2 units; 9-10; Prerequisite: None**

Graphic and Electronic Media 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. **Credit may transfer toward a certificate or associate's degree at St. Charles Community College.**

### **LIVE VIDEO PRODUCTION TECHNOLOGY**

**(Practical Arts) 1 unit; 9-12; Prerequisite: Signature of instructor required for enrollment; students are required to participate in game productions**

This exciting class gives students the opportunity 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) 1 unit; 9-12; Prerequisite: Signature of instructor required for enrollment; students are required to participate in game productions**

This exciting class gives students the opportunity 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, film, and edit video, audio, and effects.

### **(PLTW) INTRODUCTION TO ENGINEERING DESIGN**

**(Practical Arts) 1 unit; 9-12; Prerequisite; None Students may need to purchase materials**

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) 1 unit; 10-12; Prerequisite; PLTW Intro to Engineering Design.**

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) AP COMPUTER SCIENCE PRINCIPLES**

**(Practical Art) 1 unit; 10-12; Prerequisite: PLTW Computer Science Essentials OR PLTW Introduction to Engineering Design.**

Using Python® as a primary tool, 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 for mobile devices, automate tasks in a variety of languages, find patterns in data, and interpret simulations. Students collaborate to create and present solutions that can improve people's lives.

### **(PLTW) CIVIL ENGINEERING AND ARCHITECTURE**

**(Practical Arts) 1 unit; 10-12; Prerequisite: PLTW Intro to Engineering Design or teacher approval**

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) ENGINEERING DESIGN AND DEVELOPMENT**

**(Practical Art) 1 unit; 11-12; Prerequisite: PLTW Principles of Engineering, PLTW Civil Engineering and Architecture, OR PLTW AP Computer Science Principles**

In this course, students identify a real-world challenge and then research, design, and test a solution, ultimately presenting their unique solutions to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing Engineering Design and Development ready to take on any post-secondary program or career.

## **ROBOTICS**

**(Practical Arts) 1/2 unit; 9-12; Prerequisite: None**

This is a beginning course in robotics. We will be utilizing various robotics kits and materials. The objective of this course 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) 1 unit; 10-12; Prerequisite: Teacher approved**

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 participate in various competitions throughout the course. Some after school participation, robot builds and weekend competitions will be required.

# **PHYSICAL EDUCATION**

## **PHYSICAL EDUCATION**

**(Required) 1/2 unit; 9-12; Prerequisite: None**

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, flexibility will all be tested. Student's cardiovascular fitness will be improved by doing the couch to 5k program. Personal fitness concepts and a variety of team sports/activities will be introduced.

## **HEALTH**

**(Required) 1/2 unit; 9-12; Prerequisite: None**

This course is to prepare students physically, mentally/emotionally and socially to reach and maintain a high quality of life.

## **FITNESS WALKING**

**1/2 unit; 9-12; Prerequisite: Physical Education**

This course fulfills the Physical Education .5 credit for graduation. This course is designed for students to improve cardio-vascular fitness by walking. This course is completely activity based and suggested for those who are self-motivated. 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**

**1/2 unit; 9-12; Prerequisite: Physical Education**

This course fulfills the Physical Education .5 credit for graduation. Strength training is designed to give the student high levels of strength training, speed and agility, aerobic activities, and stretching skills. The students will be given the opportunity to increase their knowledge on an array of fitness concepts. Students will be graded on the number of workouts completed, attitude and written tests.

## **CORE CONDITIONING A (aerobics/dance/fitness)**

**1/2 unit; 9-12; Prerequisite: Physical Education**

This course fulfills the Physical Education .5 credit for graduation. The core conditioning class will provide students the opportunity to participate in power walking, step aerobics, yoga, Pilates, hip hop, popular modern dances (2015- present) line and social dancing, salsa, along with other lifetime fitness activities. Each student will

assess and evaluate their personal fitness levels in order to set personal goals toward developing and monitoring a healthful level of fitness and lifestyle.

### **CORE CONDITIONING B (strength training/personal fitness/boot camps)**

**1/2 unit; 9-12; Prerequisite: Physical Education**

This course fulfills the Physical Education .5 credit for graduation. The core conditioning class will provide students the opportunity to participate in power walking, yoga, Pilates, plyometrics, resistance training, boot-camps, individual app workouts, kickboxing and other lifetime fitness activities. Each student will assess and evaluate their personal fitness levels in order to set per- personal goals toward developing and monitoring a health- healthful level of fitness and lifestyle

### **TEAM SPORTS**

**1/2 unit; 9-12; Prerequisite: Physical Education**

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 the sports/activities, including skills, rules, and terminology.

## **ELECTIVE PHYSICAL EDUCATION COURSES FOR GRADES 10, 11, 12**

*\*The following courses do not fulfill the PE Graduation Requirements*

### **RECREATIONAL GAMES**

**(Elective) 1/2 unit; 10-12; Prerequisite: Physical Education; Fee \$75**

Recreational Games will provide fitness concepts, and an introduction to the following sport activities: golf, bowling, volleyball, and if time permits other recreational games. This course will include the basic fundamentals of the activities, including rules and terminology.

### **OUTDOOR EDUCATION**

**(Elective) 1/2 unit; 10-12; Prerequisite: Physical Education may not repeat course.**

**Students must purchase their own fishing license**

Outdoor education will provide basic information on hunting ethics and safety without the use of firearms, fishing skills and ethics, camping and hiking methods that will be taught at area parks, orienteering concepts using maps and compasses, adventure activities, and an awareness of Missouri's outdoors using plant and wildlife identification lessons. Students will participate in some outdoor activities. Students will be able to work with Missouri Conservation Experts.

## **GENERAL ELECTIVES**

### **ACADEMIC LAB 9-12 (NO CREDIT)**

Academic Lab is a non-credit course for students in grades 10-12. 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 12 (NO CREDIT)**

\*All senior students wanting to be either an Office Aide or Teacher Aide must fill out an application and attach it to the enrollment form. **(Students may only take one office aide, teacher aide, or academic lab per semester).**

### **TEACHER AIDE 12 (NO CREDIT)**

\*All senior students wanting to be either an Office Aide or Teacher Aide must fill out an application and attach it to the enrollment form. **(Students may only take one office aide, teacher aide, or academic lab per semester).**

## **YOUTH ENGAGED IN LEADERSHIP AND LEARNING (YELL)**

**(Elective) 1/2 or 1 unit; 9; Prerequisite: permit to enroll form**

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 the completion of school community service hours. These skills will be taught to help participants develop a student 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 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) 1/2 or 1 unit; 10-12; Prerequisite: permit to enroll form.**

The content of the advanced leadership lab course provides students 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 the completion of school community service hours. These skills will be taught to help participants develop a student 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 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) 1/2 unit; 9-10 and 11-12; Prerequisite: students must be identified as gifted through the district gifted identification protocol and have signature of teacher**

This course is an elective designed to provide 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 need, interest, and other academic course expectations. Students are encouraged to enroll both semesters to allow for 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) 1/2 unit; 12; Prerequisite: A+ eligible, permit to enroll form**

Students desiring eligibility for two-year tuition incentive to a community college or technical school, through the A+ Program, must have tutoring/mentoring experience 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 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) 1/2 unit; 10-12; Prerequisite: English I and English II (or be currently enrolled in English II), Algebra I and Geometry (or be currently enrolled in Geometry)**

The purpose of ACT Prep is to increase student awareness of the importance and significance of preparation for improving their ACT college entrance exam score. The students will become more confident of their ability with various concepts and relationships of the four areas tested by the ACT (Mathematics; Science; English; and Reading). Students will learn how to think systematically and use the precise logic required for solving typical problems found on the ACT exam. Active involvement in and successful completion of the course should lead the student to greater confidence and higher scores on the ACT exam.

## **ACT ENGLISH & READING**

**(Elective) 1/2 unit; 10-12; Prerequisite: English I and English II (or be currently enrolled in English II)**

The purpose of ACT Prep is to increase student awareness of the importance and significance of preparation for improving their ACT college entrance exam score. The students will become more confident of their ability of work with various concepts and relationships of English, reading and writing. Students will learn how to think systematically and use the precise logic required for solving typical problems found on the ACT exam. Students enrolled in this class should be at least a sophomore with English I completed and or be enrolled in English II or higher-grade level. Active involvement in and successful completion of the course should lead the student to greater confidence and higher scores on the ACT exam.

## **ACT MATH & SCIENCE**

**(Elective) 1/2 unit; 10-12; Prerequisite: Algebra I and Geometry (or be enrolled in Geometry)**

The purpose of ACT Prep Math and Science is to increase student awareness of the importance and significance of preparation for improving their ACT college entrance exam score. The students will become more confident of their ability with various concepts and relationships with the Math and Science areas tested by the ACT. Students will learn how to think systematically and use the precise logic required for solving typical problems found on the ACT exam. Course will focus on: algebra, geometry, trig, data representation, research summaries, and conflicting viewpoints. Active involvement in and successful completion of the course should lead the student to greater confidence and higher scores on the Math and Science portions ACT exam.

## **CAREER OPPORTUNITIES**

**(Elective) 1/2 unit; 9-11; Prerequisite: None**

Career Opportunities is an activity-based course designed for college and non-college bound students. Information is given to help students make a more educated decision 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 (NEW)**

**(Elective) 1/2 unit; 9-12; Prerequisite: None**

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 your adults who embody 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 Center for Advanced Professional Studies (CAPS)

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 12 PM - 2:30 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.** College credit for CAPS is available from Lindenwood University.

A complete application is required to apply. CAPS interviews may occur as well for strand placement purposes. The CAPS application and additional information can be found under Enrollment on the SCC CAPS website - [scccaps.org](http://scccaps.org).

**Global Business/Entrepreneurship @ Stauder Technologies:** This course strand is designed for students to create real startup ventures and solve real business needs. 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. Students engaging in entrepreneurship will learn startup principles and develop an entrepreneurial mindset. Students engaging in global business will work with organizations to work on projects that solve real needs. This course culminates in an instructor-student agreed upon capstone project and internship showcasing their work in this exciting field of study.

**Healthcare @ Vatterott with BJC and SSM Hospitals:** 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 practitioner to hospital administrator. 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 have a capstone project.

**Technology Solutions @ Charter-Spectrum (Riverport Tower):** Students will develop professional skills that are necessary to thrive in collaborative, innovative, and fast-paced environments. Students will perform real world projects for clients utilizing the expertise of diverse guest instructors, mentors, and business partners.  
**Information Technology -** This course strand is designed for students interested in developing professional and technical skills required for careers in various areas of IT. 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, MIS, and emerging technologies.  
**Creative Media -** This course strand is designed for students interested in developing professional and technical skills required for careers in various areas creative media. 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.





## Course Clusters

<p><b><u>Advanced Manufacturing</u></b></p> <ul style="list-style-type: none"> <li>• Precision Machining Technology</li> <li>• Combination Welding</li> </ul>	<p><b><u>Construction Trades</u></b></p> <ul style="list-style-type: none"> <li>• Brick &amp; stone Masonry</li> <li>• Building trades-Carpentry</li> <li>• Electrical Trades</li> <li>• Heating, Ventilation &amp; Air Conditioning</li> </ul>
<p><b><u>Automotive &amp; Mechanical Technology</u></b></p> <ul style="list-style-type: none"> <li>• Auto Collision Repair</li> <li>• Auto Service Technology</li> <li>• Power Equipment Technology</li> </ul>	<p><b><u>Education</u></b> <b><u>Preschool &amp; Elementary Careers</u></b></p> <ul style="list-style-type: none"> <li>• Early Childhood Career (Birth-3<sup>rd</sup> Grade)</li> </ul>
<p><b><u>Information Technology</u></b></p> <ul style="list-style-type: none"> <li>• Computer Maintenance &amp; Networking</li> <li>• Software Development 1</li> <li>• Software Development 2</li> </ul>	<p><b><u>Health Sciences</u></b></p> <ul style="list-style-type: none"> <li>• Health Occupations</li> <li>• Health Related Occupations</li> </ul>
<p><b><u>Hospitality</u></b></p> <ul style="list-style-type: none"> <li>• Applied Retail &amp; Business Skills</li> </ul>	<p><b><u>Law &amp; Public Safety</u></b></p> <ul style="list-style-type: none"> <li>• Law Enforcement</li> </ul>



# **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 sending school guidance 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 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, 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	90-100	B	80-89	C	70-79
D	60-69	F	0-59		

## **ADVANCED MANUFACTURING**

### **PRECISION MACHINE TECHNOLOGY**

**1 or 2 year program; 3 units of credit per year Prerequisite: C or better in Algebra I**

The goal of this program is to supply the industry a highly qualified workforce by graduating exceptional students that are highly motivated and skilled in the needs and requirements expected by the manufacturing community. The students will learn the history of machining, machine safety, blueprint reading, mechanical design, utilization of conventional machine techniques and Computer Numerical Controlled (CNC) programming. Year one will consist of: Safety and OSHA, Brief History of Machining, 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, Brief History of CNC Machining, Introduction to Computer Numerical Control Systems and Programming. Instructional delivery will be both in the classroom and the shop. Both project-based and problem-based learning methods will be utilized.

### **COMBINATION WELDING**

**1 or 2 year program; 3 units of credit per year**

**Prerequisite: Asthma Free**

Combination welding is open to students interested in welding and metalworking as an occupation. Students are instructed in shop safety and the proper procedures for each welding process. Oxy fuel cutting, arc, mig and tig welding, plasma cutting, and air arc cutting processes are taught in all four weld positions and on the five basic weld joints. Metallurgy, blueprint reading, reading a tape measure, metal fabricating techniques and weld symbols are included in the program. The lab is setup to simulate the welding industry. Students are evaluated by written tests and by testing their welds as specified by the American Welding Society code. Students interested in a career in welding should have good eye/hand coordination, mechanical aptitude, and manual dexterity, freedom from asthma, allergies and physical disabilities which prevent bending, stooping, lifting and working in awkward positions.

# **AUTOMOTIVE & MECHANICAL TECHNOLOGY**

## **AUTO COLLISION REPAIR**

### **2 year program; 3 units of credit per year**

This course is open to juniors who have an interest in auto collision repair as a wage-earning occupation.

One year of the two-year program students will learn non-structural repair methods. These include mig welding, straightening and aligning sheet metal, applying and shaping plastic fillers, plastic panel identification and plastic repair methods. The other year will concentrate on painting and refinishing. Students will learn proper paint preparation procedures, masking techniques and detailing cars. Primer, sealer and basecoat/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. Throughout both years, customer satisfaction, measuring and damage analysis along with writing a damage report will be covered. The course is geared to prepare students for entry level auto collision repair and to help prepare for the ASE (Automotive Service Excellence) certification tests. The curriculum is based on the I-CAR (Inter-Industry Conference on Auto Collision Repair) instruction and is used throughout the course. Students will have the opportunity to earn the I-CAR ProLevel 1 in Non-Structural Repair and Refinishing Certification.

## **AUTO SERVICE TECHNOLOGY**

### **2 year program; 3 units of credit per year**

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 credit in general shop, general metals course 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, 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. Instructional time is (approximately) 50% class and 50% lab.

Areas of instruction include:

- Engine Repair, Brakes
- Steering and Suspension
- Heating / Air Conditioning
- Electrical / Electronic
- Engine Performance
- Manual/Automatic Transmission (Basic)

## **POWER EQUIPMENT TECHNOLOGY**

### **1 OR 2 YEAR PROGRAM; 3 units of credit Optional College Credit can be purchased through The University of Central Missouri**

1 or 2 year program; 3 units of credit per year

College credit can be purchased through The University of Central Missouri (optional)

This program prepares juniors and/or seniors to diagnose and repair two- and four-cycle engines on such equipment as lawn mowers, 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 wheel alignment, deck repair, blade balancing, blade and chain sharpening, battery testing and electrical repair. Troubleshooting and problem solving on all types of equipment are stressed.

Good reading skills are required, as students will need to be able to refer to service manuals for detailed directions.

# **INFORMATION TECHNOLOGY COURSES**

## **COMPUTER MAINTENANCE & NETWORKING**

### **1 year program; 3 units of credit**

This program is open to juniors and seniors who have an interest in computers and the Information Technology field. This class learns about computer operating systems, hardware and basic networking. The class prepares you to take the CompTIA A+ exam; an IT technician certification.

Students who successfully complete this program will be able to work as an entry level help desk technician, a computer repair technician, or a computer support technician in all types of business and industry. This class also prepares you for future study in the hardware, operating systems or networking fields.

An interest in technology & computers, keyboarding skills and familiarity with Word & PowerPoint are essential.

The program has an articulation agreement with St. Charles Community College.

*This class may be taken as a 4 hour dual credit class with State Technical College of Missouri. Separate admissions criteria apply. Credit is transferable to many other Missouri colleges and universities including Missouri S&T, SEMO, and Missouri State University. Consult a Lewis & Clark Career Center Counselor for more information.*

## **SOFTWARE DEVELOPMENT 1**

### **1 year program; 3 units of credit: Prerequisites: 10th Grade Reading Level**

This program is open to juniors, seniors, and post-secondary students who have an interest in Software Development as a wage-earning occupation or post-secondary degree.

Students will learn Linux/Unix Operation and Administration, practice Software Version Control (through Git/Github), use the Agile software development methodology (mainly SCRUM), and develop software using languages such as MIT's App Inventor, Python, and Java.

This course incorporates the PLTW Computer Science courses CSP and CSA as part of the curriculum, along with Grok Learning (Python curriculum), and the Linux+ and LPIC-1 learning standards. Students who successfully complete this program will be able to develop software using industry-recognized tools and methodologies. (Agile, Github, Android Studio)

## **SOFTWARE DEVELOPMENT 2**

### **1 Year Program; 3 units of credit; Prerequisites: 10th grade reading level, completed Computer Science 1 with 85% or higher, and have instructor approval OR 10th grade reading level, have completed BOTH CSP and CSA with an EOC score of at least 7 or higher, and instructor approval. Student may have to submit examples of work.**

This program is open to juniors, seniors and post-secondary students who have an interest in Software Development as a wage-earning occupation or post-secondary degree.

Students will learn Intermediate Linux/Unix Administration, and continue improving software development techniques by studying game development with both Python and C++. Other topics will include Encryption, Web development, and robotics as time allows. Students will also be expected to emulate Industry practices by acting as mentors to first year students.

Students who successfully complete this program will be able to develop more advanced software for PC, Mobile, and Web-based applications.

# **CONSTRUCTION TRADES**

## **BRICK & STONE MASONRY**

### **2 year program; 3 units of credit per year**

This program is designed to prepare students for 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. 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.

Units of study will cover safety practices and procedures; tools and equipment used in masonry construction; properties, sizes and uses of clay and concrete masonry units; experience in laying brick, block and stone in various bond patterns; reinforced masonry walls; masonry veneer construction; layout and construction of fireplaces and chimneys; mathematics for masonry and measuring systems; blueprint reading and construction plans.

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—CARPENTRY**

### **2 year program; 3 units of credit per year**

This course is open to juniors who show an interest and aptitude in the field of construction as a wage-earning occupation. It is recommended that students have one year of industrial arts. Students will have the opportunity for OSHA 10 and ACT WORKKEYS.

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 also will learn about subdivision construction. Houses are sold upon completion. Students will gain experience in building both a single and a two-story dwelling.

## **ELECTRICAL TRADES**

### **2 year program; 3 units of credit per year; Prerequisites: Algebra with a 'C' or higher and read at or above grade level**

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. Students will participate in the construction of a new house. The program includes switches, receptacles, lighting, low voltage communications wiring, service installation, and other wiring associated with residential electricity. Students will also learn fundamental commercial wiring including Start – Stop Stations, single and 3 phase motors, and transformers.

Students must be physically fit and capable of working under adverse weather conditions including both very hot and freezing cold. We work during all types of weather on the school house. We work with real circuits, so the ability to abide by strict safety rules is extremely important. An aptitude for math in general and algebra in particular is required, as is an aptitude to read and produce technical documents and drawings.

## **HEATING, VENTILATION AND AIR CONDITIONING (HVAC)**

### **2 year program; 3 units of credit per year Prerequisite: Algebra 1 with a "C" or higher**

This course will provide students with training in heating, ventilation, air conditioning, and refrigeration to qualify them for employment as an apprentice or helper assistant to an A/C mechanic in service and/or installation of equipment. We will cover tool selection and use, tubing, piping, brazing, soldering and basics of vapor compression refrigeration, air conditioning & heating systems. Electric circuits and components, troubleshooting, basic sheet metal, customer relations, and preparation for the EPA exam will also be covered.

Applicants should have a good mechanical aptitude and be able to understand both written and verbal instructions. Students should be in good physical condition and free from respiratory problems.

# **EDUCATION**

## **PRESCHOOL & ELEMENTARY CAREERS**

### **EARLY CHILDHOOD CAREERS**

**1 or 2 Year Program (Completion of 2 years for CDA eligibility) 3 units of credit per year**

**Prerequisite; Prior Child Development course recommended**

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 a Missouri state certificate for the Infant Safe Sleep Course. 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 child care 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; 3 units of credit**

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 experiences. Students must have an up to date immunization record, a TB test, a urine drug screen, a criminal background check, a flu vaccine, 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.

This class may be taken as a 4 hour dual credit class with State Technical College of Missouri. Separate admissions criteria apply.

*Credit is transferable to many other Missouri colleges and universities including Lindenwood, Barnes-Jewish College of Nursing and University of Central Missouri. Consult Lewis & Clark Career Center Counselor for more information.*

# **HOSPITALITY**

## **APPLIED RETAIL AND BUSINESS SKILLS**

### **1 and/or 2 year program; 3 units of credit per year**

This course is designed for juniors or seniors with special needs who have an interest in the retail industry. A prerequisite for the course is potential ability to work in competitive employment.

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 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, bookkeeper, 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.

Skills learned at the Lewis & Clark campus are reinforced through community-based training. Students that qualify for the independent internship will be eligible for placement within the community with minimal supervision. The remaining students will complete their internships at JC’s (Lewis & Clark store) with continued supervision; with the emphasis on job readiness and work hardening skills, along with a heavier workload and increased responsibilities.

A separate application needs to be submitted through the student’s case manager.

# **Law and Public Safety**

## **LAW ENFORCEMENT**

### **1 and/or 2 YEAR PROGRAM; 3 units of credit per year**

#### **Prerequisite: C or better in English 2**

The Law Enforcement program is a one-year program with an optional second year that focuses on the core principles of criminal justice. Students will learn 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. In addition, the program includes a strong emphasis on communication (verbal, non-verbal, and written) as well as teamwork. This course will include many opportunities for students to connect classroom experiences through hands-on practical application. Students will be involved with investigation techniques, law enforcement procedures and protocols, and courtroom etiquette. Dual college credit opportunities will be available through at least one university in Missouri (TBD).

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. More specific information will be provided during the summer.

## Paths, Clusters & Pathways

### Career Paths

Missouri has identified six Career Paths as a way to help students become aware of and explore careers in a logical and meaningful way.

### Career Clusters

Missouri uses 16 Career Clusters as a way of organizing occupations and careers to assist educators in tailoring rigorous coursework and related activities for all students. The Career Clusters include all occupations, even those not usually found in career and technical education. Career Clusters may be used beginning in grades 7, 8 or 9, and can continue as a framework for educational planning through postsecondary education.

### Career Pathways

Occupations within a Career Cluster are further grouped according to shared commonalities such as skill sets or common roles. This grouping is called a Career Pathway. Each cluster contains two to seven Career Pathways. Career Pathways assist educators in the development of a coordinated and non-duplicate sequence of courses that identifies both secondary and postsecondary education elements; includes challenging academic and career and technical education content; and culminates in one or more of the following: technical skill proficiency, a credential, a certificate, or a degree at the secondary or postsecondary level.

### Knowledge & Skill Statements

Knowledge and skill statements represent the skills and knowledge, both academic and technical, that all students should achieve for a given career area.

## Arts, A/V Technology and Communications

Audio and Video Technology and Film  
Printing Technology  
Visual Arts  
Performing Arts  
Journalism and Broadcasting  
Telecommunications

## Arts & Communication Creative Path

**Finance**  
Securities and Investments  
Business Finance  
Banking Services  
Insurance  
Accounting

**Marketing**  
Marketing Management  
Marketing Communications  
Marketing Research  
Professional Sales  
Merchandising

**Business Management  
and Administration**  
General Management  
Human Resources Management  
Business Information Management  
Operations Management  
Administrative Support

**Information Technology**  
Network Systems  
Information Support and Services  
Web and Digital Communications  
Programming and Software Development

## Business, Management & Technology Business Path

## Health Science

Biotechnology Research and Development  
Therapeutic Services  
Diagnostic Services  
Health Informatics  
Support Services

## Health Services Health Path

**Foundation  
Knowledge & Skills**  
Academic & Technical Skills  
Teamwork • Career Development  
Information Technology Application  
Problem Solving • Critical Thinking  
Employability • Ethics • Systems  
Safety, Health & Environment  
Legal Responsibilities  
Communication

## Natural Resources Agriculture Nature Path

## Agriculture, Food and Natural Resources

Agribusiness Systems  
Animal Systems  
Food Products and Processing Systems  
Natural Resources  
Environmental Service Systems  
Power, Structural and Technical Systems  
Plant Systems

## Science, Technology, Engineering and Mathematics

Engineering and Technology  
Science and Mathematics

## Architecture and Construction

Design and Pre-Construction  
Construction  
Maintenance and Operations

## Industrial & Engineering Technology Building & Fixing Path

## Transportation, Distribution and Logistics

Transportation Operations  
Logistics, Planning and Management Services  
Warehousing and Distribution Center Operations  
Facility and Mobile Equipment Maintenance  
Transportation Systems and Infrastructure  
Planning, Management and Regulation  
Health, Safety and Environmental Management  
Sales and Services

## Human Services

Early Childhood Development and Services  
Counseling and Mental Health Services  
Family and Community Services  
Personal Care Services  
Consumer Services

## Hospitality and Tourism

Restaurants and Food and Beverage Services  
Recreation, Amusement and Attractions  
Travel and Tourism  
Lodging

## Government and Public Administration

Public Management and Administration  
Governance  
National Security  
Foreign Service  
Planning  
Revenue and Taxation  
Regulation

## Law, Public Safety, Corrections and Security

Correction Services  
Emergency and Fire Management Services  
Security and Protective Services  
Law Enforcement Services  
Legal Services

## Education and Training

Administration and Administrative Support  
Professional Support Services  
Teaching and Training

Name: \_\_\_\_\_ Career Pathway \_\_\_\_\_

Subject	9th Grade	10th Grade	11th Grade	12th Grade	
Communication Arts 4 Credits	English 1 Honors English 1 Gifted English 1	English 2 Honors English 2 Gifted English 2	English 3 AP literature AP Language	English 4 College Comp	
Mathematics 3 Credits	Algebra 1 Honors Geometry	Geometry Honors Algebra 2	Algebra 2 Pre- Calc AP Stats College Algebra	College Algebra Calculus AP Stats	
Science 3 Credits	Physical Science Honors Biology	Biology Honors Chemistry	Chemistry AP Biology AP Chemistry Forensic Science Environmental Science Physics Honors Physics Applied Science Biology 2	Physics AP Physics AP Biology AP Chemistry Biology 2 Honors Physics Physics Forensic Science Environmental Science	
Social Studies 3 Credits	US History Honors US History	World Civilization AP World AP Euro	Government AP Government	College US History	
PE 1 credit Health .5 credit	PE/Health	PE			
During 4 years of High School students must also complete the following: 1 credit of a Fine Art 1 credit of a Practical Art .5 Personal Finance .5 Computer Science 10.5 Elective Credits			Personal Finance		



# Individual Career and Academic Plan (ICAP)

**SCHS/SCW**

Name: \_\_\_\_\_ Graduation Year: \_\_\_\_\_

Grade	Requirements/Credits	Credits	1st Semester	2nd Semester	Review Each Semester		
<b>9</b>	Language Arts Social Studies Mathematics Science Art/Health/PE Requirements	1 1 1 1 4			<b>9th Grade Review</b> Dates: _____ Student's Signature(s): _____ Parents/Guardians' Signature(s): _____ Advisor's Signature(s): _____		
<b>10</b>	Language Arts Social Studies Mathematics Science Art/Health/PE Requirements	1 1 1 1 4			<b>10th Grade Review</b> Dates: _____ Student's Signature(s): _____ Parents/Guardians' Signature(s): _____ Advisor's Signature(s): _____		
<b>Secondary</b>							
<b>11</b>	Language Arts Social Studies Mathematics Science Art/Health/PE Requirements Personal Finance	1 1 1 1 3.5 1/2			<b>11th Grade Review</b> Dates: _____ Student's Signature(s): _____ Parents/Guardians' Signature(s): _____ Advisor's Signature(s): _____		
<b>12</b>	Language Arts Art/Health/PE Requirements	1 7			<b>12th Grade Review</b> Dates: _____ Student's Signature(s): _____ Parents/Guardians' Signature(s): _____ Advisor's Signature(s): _____		

**Select a Career Path**  
 Industrial & Engineering Technology

**Career Cluster**  
 \_\_\_\_\_

**Program of Study**  
 \_\_\_\_\_

A+ Program  
 Career and Technical Ed Certificate  
 Technical Skill Attainment  
 Industry Recognized Credential  
 Missouri Seal of Biliteracy  
 NCAA/NAIA

**Postsecondary Goals**  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Postsecondary Options:**  
 Directly to workforce  
 Military  
 Tech School/Area Career Center  
 Vocational Training (Apprenticeship)  
 2 year College  
     transfer to 4 year college  
     lead to workforce  
 4 Year College or University  
 Other: \_\_\_\_\_

**Learning Opportunities**

Educational/Career Goals	Work Based	Extracurricular Activities	Co-curricular Activities	Assessments/Inventories/ Academic Results
<p><b>Short-Term:</b></p> <p>Apprenticeship Career Research Cooperative Education Employment Internship Job Shadow Mentorship Resume/Job Application/ Mock Interview Service Learning Project Volunteer</p>		<p>List with number of years involved and any positions held. Examples but not limited to: Athletics, Clubs, Leadership, Student Council.</p>	<p>List with number of years involved and any positions held. Example but not limited to: CTSO, Debate, Drama, Marching Band.</p>	<p>MO Connections Career Cluster Inventory ACT: ASVAB: PSAT: SAT: Algebra 1 EOC: Biology 1 EOC: English 2 EOC: Government EOC: ACT WorkKeys: Other:</p>
<p><b>Long-Term:</b></p>				

**Postsecondary**

College Prep Coursework (AP/Dual Credit/IB)			Postsecondary Applications	
Class Name	Number of hours	Transferable	Institution Name	Status
<ul style="list-style-type: none"> <li><input type="radio"/> American Civics exam</li> <li><input type="radio"/> Missouri Constitution Exam</li> <li><input type="radio"/> U.S. Constitution Exam</li> <li><input type="radio"/> 30 min CPR/First Aid Instruction</li> </ul>				
Language Arts – 4 credits				
Mathematics – 3 credits				
Social Studies – 3 credits				
Science – 3 credits				
Fine Art – 1 credit				
Practical Art – 1 credit				
Physical Education - 1 credit				
Health - .5 credit				
Personal Finance - .5 credit				
Computer Applications - .5 credit				
Electives - 10.5 credits				
<b>Total of 28 credits + meet all graduation requirements</b>				

# Career and Technical Education Certificate Requirements

Name: \_\_\_\_\_

Graduation Year: \_\_\_\_\_

The student must meet all the requirements as follows:

- All Graduation Requirements
- CTE Concentrator, three or more credits in sequence in a department-approved career education program defined on the students ICAP, with Grade Point Average 3.0 on a 4.0 scale
- TSA/IRC
  - Name of Assessment: \_\_\_\_\_
  - Pass/Fail \_\_\_\_\_
  - Date: \_\_\_\_\_
- Soft Skills/Business Skills Attainment (1 of 3 options)
  - CTSO active participation in junior or senior year
  - Letters of Recommendation
  - Soft Skills/Ethics Assessment
- College and Career Readiness Measure
  - ACT: \_\_\_\_\_
  - ACT WorkKeys: \_\_\_\_\_
  - ASVAB: \_\_\_\_\_
  - SAT: \_\_\_\_\_
- 50 hours of work-based learning (Registered Apprenticeships, Cooperative Career Education Programs, internships, clinical settings, job shadowing, entrepreneurial experiences, school-based enterprises, structured business/industry field trips, service learning, or other opportunities that provide real-time, authentic work experiences)
- 95% attendance or greater for grades 9-12

For more information on the CTE Certificate Criteria visit: <https://dese.mo.gov/sites/default/files/cte-certificate-criteria.pdf>