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Dear Students,

Welcome to Francis Howell High School.

This student enrollment information guide is provided to aid you in the selection of an appropriate, meaningful, and satisfying education program. The quality of your high school experience will depend, in large measure, upon the choices and decisions you make during course selection time.

Please consider very carefully the explanation included within this enrollment information guide. Important facts are provided about course offerings, prerequisites, honors programs, college courses, vocational programs, student regulations, graduation and much more. It is recommended that you make your course selection decisions as a family.

If you have questions as you complete your paperwork, please contact your counselor for assistance. It is our intent that you will be adequately prepared for the career pathway you choose once you leave FHHS.

Sincerely,

Dr. David Wedlock
Principal
FRANCIS HOWELL SCHOOL DISTRICT
4545 Central School Road
St. Charles, MO  63304
Phone: (636) 851-4000
Dr. Mary Hendricks-Harris, Superintendent

FRANCIS HOWELL HIGH SCHOOL
7001 Highway 94 South
St. Charles, MO  63304
Phone: (636) 851-4700

PRINCIPAL:
Dr. David Wedlock

ASSOCIATE PRINCIPAL:
Dr. Angela Kozlowski

ASSISTANT PRINCIPALS
Mrs. Jessie Altman
Mr. Jon Schultz
Dr. Brian Thompson

DEAN OF STUDENTS:
Mr. Ryan Johnson

ACTIVITIES DIRECTOR:
Mr. Sean Erwin

COUNSELING OFFICE:
Registrar:  Mrs. Yvonne Martin
Phone: (636) 851-4837

COUNSELING SECRETARIES:
Mrs. Tina Medley – (636) 851-4789
Mrs. Frances Wood – (636) 851-6270

SCHOOL COUNSELORS:
Mrs. Chelsea Reilmann (A-Col) & A+ Coordinator
Mr. Brett Griffin (Com-Gor)
Mrs. Kim Potts (Gos-J)
Mrs. Jen Lowrey (K-Mon)
Mrs. Kristin Adams (Moo-Rop)
Mrs. Kim Vest (Roq-Stam)
Mrs. Lauren Ginn (Stan-Z)
Mrs. Rhonda Wurm Educational Support Counselor
Francis Howell High School

Francis Howell High School has earned full accreditation from the Missouri State Department of Elementary and Secondary Education.

Mission Statement

Francis Howell High School is committed to working in partnership with the community (staff, students, parents, and community members) to provide a quality learning environment that promotes continuous improvement for students in achievement, attachment and awareness.

Vision Statements

The Francis Howell High School Community will provide a high quality educational experience that will result in students possessing the necessary knowledge and skills to become life-long learners and be positive contributors within their community.

The Francis Howell High School Community will provide an environment which develops a sense of personal and school pride, cultural awareness, and tolerance.

Staff Value Statements

1. We will establish clear targets and expectations that focus on learning.
2. We will develop common formative and summative assessments that will be used to guide instructional practices.
3. We will utilize strategic professional development to implement and evaluate effective instructional practices.
4. We will use SMART goals to monitor the progress of our students’ attendance, achievement, and behavior.
5. We will model the appropriate behavior that we expect from our students.
6. We will respect each student and staff member as a valued individual and work collaboratively in our teams to address students’ unique intellectual, physical, social, and emotional needs.
7. We will foster an ongoing partnership among student, family, school, and community that will promote a learning atmosphere which values mutual respect, perseverance, honesty, integrity, and school pride.

Parent Value Statements

1. We will model behavior we expect from our students.
2. We will discuss and monitor goals and expectations with our students.
3. We will make a commitment to help our students make good decisions.
4. We will make a commitment to attend school events such as open house, parent/teacher conferences, etc.
5. We will take an active role with our student’s friends.
6. We will work to create an environment of honesty and trust with our students and the staff at FHHS.
7. We will encourage and teach respect, integrity, character, tolerance, and responsibility.
8. We will monitor what our students are doing in their spare time.
9. We will work with the FHHS staff to prepare our students for a meaningful post-high school experience.
10. We will focus on positive expectations for our students.
11. We will communicate with our students and encourage their involvement in school activities.

Student Value Statements

1. We will show respect for teachers, parents, community, and peers.
2. We will have a positive attitude and be ready to work.
3. We will set and attain high goals.
4. We will take responsibility for learning.
5. We will be involved in school activities.
6. We will work to develop the skills necessary to make positive life choices.

**FHHS Goal Statements**

1. Francis Howell High School will achieve a core data annual average daily attendance rate of 95.9%.
2. Francis Howell High School will reduce the top three discipline infractions by 5%.

**District Policy against Discrimination**

It is the policy of the Francis Howell School District not to discriminate on the basis of race, sex or disability status in its educational activities or employment practices.

Inquiries related to race or sex discrimination should be referred to the District’s designee for Title VI and Title IX compliance. Inquiries related to disability status should be referred to the Director of Alternative Learning. Their offices are in the Francis Howell Administration Building, 4545 Central School Road, St. Charles, MO 63304 (636) 851-4000.

**Alternative Learning**

The Francis Howell School District offers a broad range of services to accommodate the educational needs of students in the community that are identified with an educational identification. Please refer to the Alternative Learning section of the course listings for a list of some available services. In addition to the listed courses, there are also supportive services for all core academic areas.

Prior to a student receiving special education services, an individual comprehensive evaluation in the areas of intelligence, behavior and related areas must be completed. Eligibility must first be determined through the evaluation process, an individual education program must be developed, and then parent permission secured before placement is final.

**Educational Support Counseling**

Counselors have the option of requesting additional support/counseling for students from the Educational Support Counselor in the building. Requests for services are based on personal, social and emotional needs which may include behavioral or attendance concerns.

**Continuity and Educational Plans**

We continue to stress the continuity of the high school experience and importance of educational planning. The freshman and sophomore years will establish a solid foundation of basic studies and required courses. The junior and senior years will allow greater flexibility for the student and family to choose from several broad areas of study: College Preparatory, Technical/Vocational, Occupational (Work/Study) and General.

**College Preparatory Courses**

Provides students the opportunity to prepare for entry into a college setting.

**Technical/Vocational Courses**

Provides students the opportunity to select a program from the Lewis and Clark Career Center. Entry into a technical or vocational field upon graduation is the primary goal.

**Occupational (Work/Study) Programs**

Provides seniors the opportunity to prepare for general employment in a chosen field upon graduation. Available areas of study include: Business/Cooperative Work Experience, Marketing/Cooperative Work Experience, and Culinary Work Experience.
General Course Study
Provides students the opportunity to complete the minimum requirements for graduation and prepare for a variety of career choices, including: vocational or technical training, the military or two-year degree and certificate programs. Additional “select” courses might be required by a college or technical school in a particular field or program. Therefore, students are encouraged to consult their individual counselor on a frequent basis to insure successful progress toward graduation in their respective choice of studies or programs.

Course Description Information

Unit of Credit
One unit of credit is awarded for the successful completion of a year-long course. One-half unit of credit is awarded for successful completion of a semester course. Credits are awarded at the completion of each semester. Credit will not be awarded by quarter.

Required Course
A required course is one that either the State Department of Education or the Francis Howell School District requires for graduation. All required courses must be successfully completed prior to graduation.

Normal Program
Each student is expected to make continual progress toward graduation requirements. Keeping in mind that the graduation requirements are minimum standards, a normal program will be considered to be six units of credit per year.

Elective
An elective course is one that a student chooses to take but is not specifically required for graduation.

Prerequisite
A prerequisite course is one that must be successfully completed before another related course may be taken. (Example: Accounting I must be completed before enrolling in Accounting II).

High School Graduation Requirements
A student must complete a minimum of 24 units of credit to graduate.

Communication Arts…………………………………………………………… 4.0 units
Mathematics…………………………………………………………………… 3.0 units
Social Studies………………………………………………………………… 3.0 units
Science………………………………………………………………………… 3.0 units
Fine Arts………………………………………………………………………. 1.0 units
Practical Arts………………………………………………………………… 1.0 units
Physical Education………………………………………………………….1.0 units
Health……………………………………………………………………….0.5 units
Personal Finance……………………………………………………………0.5 units
Electives………………………………………………………………………7.0 units

Required Courses for Graduation

Communication Arts: 4 credits: English I, English II, English III, and one credit from Communication Arts electives
Math: Any 3 Math credits
Social Studies: 3 credits, recommended courses: United States History, Modern World History, American Government
Science: 3 credits: Physical Science, Biology, Science elective
Fine Arts: 1 credit, includes Art, Music, and Theatre
Practical Arts: 1 credit, includes Business, Family and Consumer Science, Industrial Technology, Lewis & Clark Vocational Career Center, Yearbook Publication, Newspaper Production, Photojournalism
Personal Finance: ½ credit, this course satisfies ½ of the required Practical Arts 1 credit
Physical Education: 1 credit
Health: ½ credit

High School Credits Earned While in Middle School

Policy 2525 requires that students who successfully complete a high school course while in middle school will have the course recorded on their high school transcript for G.P.A. and credit notation. These courses include, but are not limited to, the following:

- Algebra I
- Physical Science 9th Grade
- French 1
- German 1
- Spanish 1

Correspondence Credit

Credit from accredited correspondence/online schools may be applied toward meeting Francis Howell School District graduation requirements. Before enrolling in any such coursework, students should first check with their counselor to be certain that the institution is accredited by a reputable agency, and that the course selections will meet designated graduation requirements. These courses are taken at the expense of the student.

Missouri Course Access Program (MOCAP)

The Francis Howell School District participates in the Missouri Course Access Program (MOCAP). Because virtual instruction can be an effective education option for some students, there may be courses available either through a district-provided virtual option or through the Missouri Course Access Program (MOCAP). More information about virtual courses can be found on our website at: https://goo.gl/TmFoSu.

The District will accept all MOCAP course credit earned in grades 9-12. In awarding credit and assigning grades, the District will apply the same standards for credit award and grade assignments as are applied to courses completed in the District’s traditional curriculum. Students and their parent(s)/guardian(s) should meet with their counselor if interested in MOCAP courses.

Grade Point Average

The following scale is used to calculate the grade point average (GPA) each semester:

All courses are graded with letters.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
<th>Regular Class</th>
<th>Honors Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90 – 100%</td>
<td>4 points</td>
<td>5 points</td>
</tr>
<tr>
<td>B</td>
<td>80 – 89%</td>
<td>3 points</td>
<td>4 points</td>
</tr>
<tr>
<td>C</td>
<td>70 - 79%</td>
<td>2 points</td>
<td>3 points</td>
</tr>
<tr>
<td>D</td>
<td>60 - 69%</td>
<td>1 point</td>
<td>1 point</td>
</tr>
<tr>
<td>F</td>
<td>0 - 59%</td>
<td>0 point</td>
<td>0 point</td>
</tr>
</tbody>
</table>

- Current grade point average = the average of the course grades for all courses taken that semester only.
- Cumulative grade point average = the average of the semester grades for all courses taken during high school.
- Each class with a passing grade (any grade higher than an “F”) = ½ credit per semester.
How Semester Grades are Computed

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarter Grade 1</td>
<td>40%</td>
</tr>
<tr>
<td>Quarter Grade 2</td>
<td>40%</td>
</tr>
<tr>
<td>Semester Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Semester Grade</td>
<td>100%</td>
</tr>
</tbody>
</table>

Cum Laude Requirements

Only high school courses, including MOCAP courses, qualify for Cum Laude credit. Classes taken through dual enrollment, correspondence or night school do not meet this standard. Students transferring from other school districts must have taken the maximum amount of credits available at their previous school(s) and then meet the above credit requirement prorated for the period they attend high school in the District. District allowances may be necessary to accommodate dual enrollment situations and students that are granted seventh and/or eighth semester waivers, and the Cum Laude total credit requirement may be prorated as a result.

Cum Laude GPA requirements are:

- 4.2 and above = Summa Cum Laude
- 4.0 – 4.19 = Magna Cum Laude
- 3.8 – 3.99 = Cum Laude

GPA will be calculated to include all high school classes (including MOCAP classes), but exclude dual enrollment, correspondence and night school courses. GPAs will not be rounded up.

Cum Laude College Entry Exam requirements on the ACT are:

- 27 and above = Summa Cum Laude
- 26 = Magna Cum Laude
- 25 = Cum Laude

Students can also receive Cum Laude designation with a combined 1220 on two (2) of the three (3) sections on the SAT.

- Students are required to take a minimum of eight (8) semesters in each of the core areas; math, communication arts, science, and social studies.
- Students are required to earn a minimum of “Proficient” on all but one (1) MAP/End-of-Course exams taken over high school level coursework.

Cum Laude honors will be announced as students’ names are read at commencement. Students will wear a Cum Laude medallion with the color ribbon selected by the individual high school.

- Summa Cum Laude = gold medallion
- Magna Cum Laude = silver medallion
- Cum Laude = bronze medallion

A seal will be placed on the students’ diplomas indicating the appropriate honor.

Honor Roll

The honor roll is computed at the end of each semester. A student must have earned a 3.0 GPA for the semester to be included in the honor roll.
Qualified graduates may earn the following awards:

- The Francis Howell College Preparatory Studies Certificate
- The President’s Award for Educational Excellence, and/or
- The Standard of Academic Accomplishment Award (SAA)

The criteria for these awards are outlined below. Students are encouraged to plan accordingly and to petition for the awards for which they qualify during the spring of their senior year. Additional information regarding these awards is available in the Counselor’s Office.

Missouri Career & Technical Education Certificate

The 98th Missouri General Assembly passed legislation in 2016 which required the State Board of Education, in consultation with the CTE Advisory Council, to establish minimum requirements for a Career and Technical Education (CTE) certification that a student can earn in addition to his or her high school graduation diploma. Beginning July 1, 2017, students entering high school in school year 2017-2018 and thereafter shall be eligible to earn a Career and Technical Education (CTE) certificate.

The requirements set forth by the State Board of Education are intended to provide students with the necessary technical and employability skills to be prepared for an entry-level career or additional training in a technical field. Students must meet all requirements in order to receive the CTE certificate. It is intended that schools support student efforts to accomplish these requirements through the development and monitoring of the individual personal plan of study based on a career pathway.

The requirements for the CTE Certificate are as follows:

1. Meet all requirements set forth in State and Local Board of Education policies related to earning a high school diploma.
2. Qualify as a Career and Technical Education (CTE) concentrator. A CTE concentrator is defined as a student who has earned three or more credits in a sequence in any department-approved career education program area as defined on the student’s personal plan of study.
3. Maintain a minimum Grade Point Average of 3.0 on a 4.0 point scale in the CTE area of concentration as defined on the student’s personal plan of study.
4. Pass an approved Technical Skill Assessment (TSA) and/or earn an approved Industry Recognized Credential or Certificate (IRC) aligned with the student’s CTE area of concentration.
5. Complete a minimum of 50 hours of appropriate work-based learning experiences aligned with their CTE area of concentration. Work-based learning experiences may include Internships, Registered Apprenticeships, Cooperative Career Education programs, clinical settings, job shadowing, entrepreneurial experiences, school-based enterprises, structured business/industry field trips, service learning, or other opportunities that provide students with real-time, authentic work experiences.
6. Maintain at least a 95% attendance record overall for grades 9-12.
7. Demonstrate attainment of soft-skills/business skills. The requirement can be met in one of three ways:
   - Active participation in a Career and Technical Student Organization such as FFA, FBLA, SkillsUSA, etc., during the junior or senior year.
   - Score at proficient or advanced level on a district-developed or adopted soft-skills/ethics assessment during the junior and/or senior year; or
Three or more letters of recommendation from at least three different business or industry employers or other individuals who have knowledge of the student and can assure that the student has a high level of soft-skill efficacy and is career ready. Letters may not be from a relative or student.

8. Achieve a score at or above the state standard on any department-approved measure(s) of college and career readiness, for example, the ACT, SAT, ACT-WorkKeys, or the Armed Services Vocational Aptitude Battery as determined in the most current MSIP performance standards.

**President’s Award for Educational Excellence**

A student must meet all specified requirements for the Missouri College Preparatory Certificate. A student must have a minimum GPA of 3.5 on a 4.0 system and score at or above the 85th percentile on an ACT, SAT or other achievement test.

**Standards of Academic Accomplishment Award**

In order to receive the Standard of Academic Accomplishment Award (SAA), a student must complete all the specified courses required for the Missouri College Prep Certificate. If a student has a GPA of less than 3.0 but greater than 2.5 or has scores at the National average on the ACT, SAT, he/she may still be deemed qualified if the principal believes these grades/scores are truly commensurate with the student’s ability level. **A student must participate in at least one extra-curricular activity for each of the four high school years.** A student must have excellent citizenship/attendance record in each of his/her four years in high school. Exception: Three units of approved mathematics credit may be substituted for Geometry and Algebra 2 as required by the Missouri College Preparatory Studies Certificate.

**4.0 Award**

Seniors earning a 4.0 cumulative GPA after 7 semesters of high school will receive a special cord to be awarded at Senior Awards night. Seniors will also be able to wear these special cords at graduation. In addition, seniors with a 4.0 cumulative GPA will be invited to attend a 4.0 luncheon with the superintendent and principal.

**Honors Program**

The Francis Howell School District offers an Honors Program at the high school level.

**Honors courses include:**

<table>
<thead>
<tr>
<th>Field</th>
<th>Pre-AP Courses</th>
<th>Honors Courses</th>
<th>AP Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Economics</td>
<td>United States History</td>
<td>AP Chemistry II</td>
<td>AP Art History</td>
</tr>
<tr>
<td>English I Pre AP</td>
<td>Modern World History</td>
<td>AP Physics I</td>
<td>AP Studio Art</td>
</tr>
<tr>
<td>English II Pre AP</td>
<td>AP Government &amp; Politics</td>
<td>AP Physics II</td>
<td>Introduction to Engineering Design</td>
</tr>
<tr>
<td>AP English Language and Composition</td>
<td>AP US History</td>
<td>AP Environmental Science (online)</td>
<td>Principles of Engineering Design</td>
</tr>
<tr>
<td>AP English Literature and Composition</td>
<td>AP European History</td>
<td>Biology III Honors (Genetics)</td>
<td>Digital Electronics</td>
</tr>
<tr>
<td>Newspaper Production</td>
<td>AP World History</td>
<td>World Language: Levels III, IV, V*</td>
<td>Engineering Design and Development</td>
</tr>
<tr>
<td>Yearbook Publication</td>
<td>AP Psychology</td>
<td>AP World Language</td>
<td>AP Human Geography (online)</td>
</tr>
<tr>
<td>Geometry</td>
<td>Biology Pre-AP</td>
<td>Treble Choir/Chorale*</td>
<td>Human Body Systems</td>
</tr>
<tr>
<td>Algebra II</td>
<td>AP Biology</td>
<td>Concert Choir*</td>
<td>Medical Interventions</td>
</tr>
<tr>
<td>Pre Calculus Honors</td>
<td>AP Music Theory*</td>
<td>Chamber and Show Choir*</td>
<td>Computer Science Principles</td>
</tr>
</tbody>
</table>
Criteria for these courses are determined by meeting the prerequisites.

Admission to the Honors Program is based upon the classroom grade in that subject area from the previous year(s) and test scores on district approved achievement tests.

Honors, Advanced Placement and Advanced Credit courses give students a head start on college while they are still in the supportive environment of a high school classroom. When college admissions personnel see these types of classes on a transcript, they realize the student has been exposed to greater depth of curriculum, which in turn requires students to develop time management and study skills. The combination of these abilities transfers directly to the intensity of college coursework. While we strongly encourage students to challenge themselves with a rigorous schedule of classes, please understand that students who choose to be enrolled in an Honors or AP class will not be allowed to drop to a corresponding regular section after the end of the preceding school year. Teachers are hired and class sections are designed on students’ initial requests and our schedule does not offer the flexibility for students to make these changes.

Students who transfer to an FHSD high school with weighted grades from another district will only have those courses honored that are the same as weighted courses offered in FHSD.

**Grade 9 Honor Course Eligibility**

**English Language Arts**
- Challenge ELA 8 – 70% or higher class average
- ELA 8 – Gates Lexile 1200L; Advanced on MAP and class average 90% or higher.

**Math**
- Advanced MAP and 90% or above (student must be in Algebra 8)

**Science**
- Gates Percentile Score + class average = 175 points

**Social Studies**
- Gates Percentile Score + class average = 175 points

**Grade 10 Honors Course Eligibility**

For entry into the 10th Grade Honors Program, students must meet one of the following criteria:

1) Students currently in 9th Grade Honors must earn a minimum of 80% (B) to continue in 10th Grade Honors.

2) Students who were eligible for 9th Grade Honors but elected not to participate must average an 85% in the respective subject for both semesters of 9th grade.

3) Students not currently in Honors and not eligible for 9th Grade Honors must average a minimum of 85% in the respective subject for both semesters of 9th grade. For math, students must have an 85% AND Advanced on most recent EOC or MAP for placement in Honors Geometry or Honors Algebra 2.
Grade 11 Honor Course Eligibility
For entry into the 11th Grade Honors Program, students must complete the following steps:

1) Student must indicate their interest in Honors to the respective teacher.
2) Student must request a recommendation from the respective teacher.
3) Student must submit parental approval on the appropriate Honors form by the designated deadline.
4) Math – Based upon grade in class as well as recommendation of teacher.

Second Semester Qualifications for Honors Program
Students not qualifying at the end of the first semester, but who do qualify at the end of the second semester, MAY be added to the program via a parent appeal begun through the Counselor’s Office.

In math, the curriculum for second semester is more rigorous and class sizes may be too large for any changes.

Honors Forms
Honors forms will be distributed by the students’ current core area teacher. Students new to the high school can access Honors forms from their counselor.

Appeal Process
If a student is not admitted to the Honors Program under normal conditions, the student/parent may appeal the decision. Likewise, if a student has been enrolled in an Honors Program course and wants to drop, the student/parent will need to appeal. In both cases, the student/parent should contact their counselor to initiate the appeal process.

Advanced Credit Program (Dual Credit Classes)

Advanced Credit (AC) courses are college credit courses offered in conjunction with area universities, including the University of Missouri at St. Louis (UMSL) and Missouri Baptist University (MOBAP). Students have the option of paying for college credit at a reduced rate while enrolled in the class at FHHS. Official transcripts must be requested from the individual university. Advanced Credit courses that may be offered include:

- Spanish III, Spanish IV, Spanish V
- AP Calculus BC
- AP Statistics
- AP Chemistry II
- French III, French IV, French V
- Pre-Calculus

However, please see your counselor for this year’s list of eligible courses, as this may change on a yearly basis.

1) For UMSL, Seniors and Juniors are eligible for enrollment if they have a 2.5 or higher G.P.A.
2) Sophomores must have a 3.0 or higher G.P.A.

Students who have successfully completed at least one Advanced Credit course by the end of the first semester of their senior year and plan to attend UMSL full time are eligible to apply for a special scholarship to UMSL. These classes may not carry AC credit every year. The instructor will inform students if the course is not carrying AC credit. It is the student’s responsibility to check with the colleges they are planning to attend to determine if and which of the AC credits they will accept.
Advanced Placement Program

Advanced Placement (AP) is a program of college-level courses coupled with national standardized examinations for currently enrolled secondary school students. The Francis Howell School District, the College Board and the Educational Testing Service provide this opportunity for students to earn college credit while still in high school.

Students who enroll in an AP course have the option, in May of each year, to take the standardized AP credit examination. AP college credit can only be attained as a result of a successful score on the standardized examination. High school graduation credit will be awarded upon successful completion of the course regardless of whether or not the standardized examination is taken.

Students must pay a fee for each AP examination, as charged by the College Board and Educational Testing Service.

Please check with your counselor for a list of the current Advanced Placement (AP) courses offered at your high school. The following courses may be offered:

<table>
<thead>
<tr>
<th>AP Economics</th>
<th>AP Calculus BC</th>
<th>AP European History</th>
<th>AP Human Geography</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP English Language and Composition</td>
<td>AP Statistics</td>
<td>AP World History</td>
<td>AP Seminar</td>
</tr>
<tr>
<td>AP English Literature and Composition</td>
<td>AP Biology</td>
<td>AP Psychology</td>
<td>AP Research</td>
</tr>
<tr>
<td>AP Art History</td>
<td>AP Chemistry II</td>
<td>AP French</td>
<td></td>
</tr>
<tr>
<td>AP United States History</td>
<td>AP Physics I</td>
<td>AP Spanish</td>
<td></td>
</tr>
<tr>
<td>AP Government and Politics</td>
<td>AP Physics II</td>
<td>AP Studio Art</td>
<td></td>
</tr>
<tr>
<td>AP Calculus AB</td>
<td>AP Environmental Science (online)</td>
<td></td>
<td>AP Music Theory</td>
</tr>
</tbody>
</table>

All AP courses are awarded Honor Points. Please remember to carefully read all of the information contained in the Honors Program section on page ix.

A+ Schools Program

A student who qualifies according to the following criteria and continues a post-secondary education at a Missouri public community college or career/technical school may be eligible for state reimbursed tuition for up to 105% of the hours required for the degree program, contingent upon the high school being granted A+ Schools status each year and the availability of State funds.

1) Enter into a written agreement with the school by signing and submitting the A+ Agreement Form no later than September 1st of the student’s senior year;
2) Attend a designated A+ School for three years prior to high school graduation;
3) Graduate from high school with a minimum unweighted grade point average of 2.5 on a 4.0 scale;
4) Have an overall attendance rate of 95% for grades 9-12;
5) Perform 50 hours of unpaid peer mentoring or tutoring of other students on FHSD property, under the supervision of a FHSD employee, to be completed by January 1st of the student’s senior year;
6) Maintain a record of good citizenship according to the State A+ Schools Program, FHSD Code of Conduct, and High School Student Handbook;
7) Students must earn a score of proficient or advanced on the Algebra I End of Course exam or a higher level DESE approved End of Course exam in the field of mathematics. Students may also receive a qualifying score on the ACT math subtest, as set each year by MDHE (Missouri Department of Higher Education).
8) Maintain a documented, good faith effort to secure all available federal post-secondary student financial assistance funds that do not require repayment. The Free Application for Federal Student Aid (FAFSA) should be completed and submitted after January 1st of the student’s senior year. Individuals may do so at https://fafsa.ed.gov

9) Be a U.S. citizen, permanent resident, or lawfully present in the U.S.

For more information, please contact the A+ Coordinator at 636-851-4783.

St. Charles Community College Articulation Agreement

High school students may earn advanced credit at St. Charles Community College through vocational articulation agreements. However, articulated credit applies only to Applied Science degrees, not Associate of Art transfer degrees.

In the Francis Howell School District, the following courses are articulated with SCC and count toward Applied Science degrees. The course, or sequence of courses, are noted with the SCC course they match:

<table>
<thead>
<tr>
<th>FHSD Course</th>
<th>SCC Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting I</td>
<td>ACT 101 Applied Accounting (3 credits)</td>
</tr>
<tr>
<td>Introduction to Business</td>
<td>BUS 101 Introduction to Business (3 credits)</td>
</tr>
<tr>
<td>plus one of:</td>
<td></td>
</tr>
<tr>
<td>Entrepreneurship or Personal Finance</td>
<td></td>
</tr>
<tr>
<td>Marketing I and Marketing II</td>
<td>BUS 208 Entrepreneurship (3 credits)</td>
</tr>
<tr>
<td>Desktop Publishing</td>
<td>BTC 190 Publishing Concepts (2 credits)</td>
</tr>
<tr>
<td>Computer Aided Drafting I</td>
<td>CDM 103 Introduction to CAD Systems (2 credits)</td>
</tr>
<tr>
<td>Computer Aided Drafting II</td>
<td>CDM 104 CAD Systems II (3 credits)</td>
</tr>
<tr>
<td>*Child Development I and II</td>
<td>CDC 112 (3 credits)</td>
</tr>
</tbody>
</table>

*Both courses must be passed with a “B” or better, and complete CDC 113 with a “C” or better, credit for CDC 112 is awarded retroactively

Residential Architecture | CDM 205 Architectural Drafting I (3 credits)

Students should supply SCC with a transcript from their high school showing grades of “B” or better in the course or courses for which articulation credit is to be granted. Tuition will be waived for articulation courses. Students must accumulate 15 credit hours at SCC with a 2.5 GPA or better to receive articulation credit.

Career Education Work Study Programs

The Francis Howell School District offers three vocational work-study programs for Seniors. These programs include:

Business/Cooperative Work Experience
Marketing/Cooperative Work Experience
Culinary Arts Work Experience

These programs allow high school students release time and credit for supervised work experience. Students must be enrolled in a minimum of four credit classes in their high schools.
Career Education Work Study Prerequisites

Business/Cooperative Work Study
- 12th grade status and work program teacher approval
- Concurrent enrollment in Business Technology

Marketing/Cooperative Work Experience
- 12th grade status and work program teacher approval
- Concurrent enrollment in Marketing I or II

Culinary Arts Work Experience
- 12th grade status and concurrent enrollment in Culinary Arts

Lewis and Clark Career Center

Students who want to be considered for a technical program need to complete a Lewis and Clark application form and return it to their home school counselor’s office. Depending on the program, students must be completing 10th or 11th grade to apply.

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 according to the timeline established by their high school and Lewis and Clark Career Center.

All classes at Lewis and Clark Career Center meet for three periods each day, and earn three units of credit per year. Articulation agreements are in place in certain programs for qualified students who complete their program. Students who complete the technical program with a minimum of 90% attendance and a “C” average will receive a certificate of completion.

Please note: Due to time allotted for travel to and from Lewis and Clark Career Center, students earn a maximum of 6 credits per year. Students who are credit deficient and choose to attend Lewis and Clark may jeopardize their “on-time” graduation. See your counselor for potential credit assistance options.

Dual Enrollment

Dual enrollment provides the opportunity to earn college credit while also attending high school. Students must complete a Dual Enrollment Form and apply to a local college with which FHSD has an articulation agreement. Students must then furnish proof of this enrollment and paid receipt to their counselor for final admission to the program. Dual enrollment students must have a 3.0 cumulative G.P.A. and attend high school for a minimum of four periods. If they attend high school for five periods, they must be enrolled in at least one three credit hour college class. If students attend high school for four periods, they must enroll in at least six college credit hours.

Gifted Educational Program

The Francis Howell School District offers a program for gifted students. Students in the program must meet the guidelines established by the Francis Howell School District and the Missouri State Department of Elementary and Secondary Education. Students who are interested in entering the program should check with their building level Gifted facilitator to review eligibility requirements.
Testing During High School

EOC
End of Course Exam/State Assessment Program - for the 2019-2020 school year, end of course exams will be given to students upon completion of these courses: Biology, Algebra I, Algebra II (if Algebra was taken in Middle School), English II and Government.

ACT, SAT
These are placement tests used for admission purposes and some scholarship applications for students planning to pursue education beyond high school at a two- or four-year college. Fees are charged for these assessments.

ACT WorkKeys
The ACT WorkKeys assessments measure foundation skills required for success in the workplace, and help measure the workplace skills that can affect job performance.

All Juniors will take the ACT or ACT WorkKeys during the school day. These assessments are at no cost to the students.

Some Highly Selective Colleges like for students to take SAT Subject Tests on top of an ACT/SAT as part of the admissions criteria. Please contact your prospective selective colleges to see if a Subject Test is required. You may also go to the following website as a reference to see if your college requires a SAT Subject Test: https://collegereadiness.collegeboard.org/sat-subject-tests/register/test-dates-deadlines

PSAT/NMSQT
Preliminary SAT offered to Sophomores and Juniors – Juniors use PSAT scores to qualify for the National Merit Scholarship. Fees are charged.

OASIS
Lewis and Clark Career Center administers this aptitude test to students who apply for admission to the technical school.

Years That Tests Are Administered

9th Grade
End of Course Exams – Dependent upon completion of a course with a state-developed end of course exam.

10th Grade
End of Course Exams – Dependent upon completion of a course with a state-developed end of course exam.
*PSAT/NMSQT – October – College bound students – fee charged and sign up required.
Practice ACT – October – All Sophomore students

11th Grade
End of Course Exams – Dependent upon completion of a course with a state-developed end of course exam.
*PSAT/NMSQT – October – College bound students – fee charged and sign up required.
ACT/SAT – September/October/December/February/April/June – All college bound students – registration fee.
ACT free to all Juniors in Spring semester.
ACT WorkKeys – Spring semester

12th Grade
End of Course Exams – Dependent upon completion of a course with a state-developed end of course exam.
ACT/SAT – September/October/December/February/April/June/July – All college bound students – fee and sign up required.

*Students can qualify for the National Merit Scholarship during their junior year only.
In general, students are encouraged to take as much college related coursework as possible during high school to maximize their academic potential, enhance their admission opportunities for college and improve their scores on college entrance tests. These courses include Math, Science, Communication Arts, Social Studies and World Language. Listed below are the course requirements for admission to various area universities. Keep in mind that class rank and ACT or SAT scores also affect admissions to college.

**Missouri State Colleges**
(See listing of colleges below)

- English: 4.0 credits
- Math (Algebra I or higher)*: 3.0 credits
- Social Studies: 3.0 credits
- Science: 3.0 credits
- Fine Arts: 1.0 credit
- Electives**: 3.0 credits

*Missouri Western requires 4 years of math Algebra I and higher.

**Truman State University requires 2.0 World Language credits.

(Electives from World Language and/or combinations of the core courses)

**University of Missouri Colleges**
(See list below)

- English: 4.0 credits
- Math (Algebra I or higher): 4.0 credits
- Social Studies: 3.0 credits
- Science: 3.0 credits
- Fine Arts: 1.0 credits
- World Language: 2.0 credits

**University of Missouri Colleges**
University of Missouri – Columbia
University of Missouri – Kansas City
Missouri University of Science and Technology – Rolla
University of Missouri – St. Louis
**Schedule Change Policy**

Please make your choices of courses for next year very carefully. **Once the enrollment process has been completed, it is very difficult to change schedule requests.** Parents are requested to review their student’s course requests prior to the completion of enrollment and sign the course request form.

Teaching assignments, textbook allocations, supply and equipment expenditures are made based upon the spring enrollment period. Student requests for changes disrupt this process and will not be honored.

Schedule changes due to the cancellation of courses or sections, failures of required or prerequisite classes or other unplanned occurrences will be handled by the high school counselor’s office. Students impacted by these situations will be contacted about possible alternatives during the summer. There will be no schedule changes after the first ten (10) days of the semester.

**Dropping a Class**

If a student drops a class after the first ten (10) days of a semester, the student receives an “F” for the semester.

**Career Pathway**

**Purpose of Career Paths…**

Your school is doing everything possible to assist all students in choosing and preparing for a rewarding career. A general high school program of studies is simply not enough preparation for today’s colleges or for employment in today’s complex workplace. Rather, the program of studies must be carefully planned and selected to help ensure that students will attain their goals.

Your school counseling staff has initiated a program of Career Pathways to help give focus and direction to the selection of a high school course of study to best assist the student in achieving the goal which has been chosen.

**If Students Change Their Minds…**

A career path choice is not a permanent commitment. As students mature and have new experiences, they will learn new things about themselves and may want to change their career path. If students decide on a new career path, they should discuss it with their counselor and adjust their plans in accordance with their new career direction.

**SCOIR**

We offer an Internet accessible college educational planning program called SCOIR. The program provides students and parents with the necessary tools for career and educational planning. Students will be introduced to SCOIR during classroom presentations. Parents are encouraged to use the program at home with their student to help explore college options, develop a comprehensive educational plan, and research colleges and scholarships.

### ACTIVITIES INFORMATION

**Questions or Additional Information Contact:**

Sean Erwin, Activities Director – (636) 851-4765

**Philosophy of Activities**

The philosophy of activities in the Francis Howell School District is such that it is considered an integral part of the school’s program of education: providing experiences that will help young men and women physically, mentally and emotionally. Students are stimulated to want to win and excel, but the principles of good sportsmanship prevail at all times to promote the educational values of contests. The element of competition and winning, though it exists, is
controlled so that it does not determine the nature of the program. This is considered to be educationally and psychologically sound because of the training it offers for living in a competitive society.

We believe that participation in activities, both as a player and as a student spectator, are an integral part of the student's educational experiences. Such participation is a privilege that carries with it responsibilities to the school, to the team, to the student body, to the community and to the students themselves. In their play and their conduct, he/she is representing all the groups. Hopefully, such experiences contribute to the knowledge, skill and emotional patterns that they possess, thereby making him/her a better person and citizen.

Francis Howell High School is a member of the Missouri State High School Activities Association (M.S.H.S.A.A.), the governing body for intrastate competition. FHHS is also a member of the Gateway Athletic Conference. Conference sports include: football, boys' and girls' soccer, girls' softball, cross-country, boys' and girls' volleyball, boys' and girls' basketball, wrestling, boys' and girls' track, baseball, boys' and girls' tennis, boys' and girls' golf, and boys' and girls' swimming. If you have questions regarding Francis Howell High School's athletic program, please contact Mr. Sean Erwin, Activities Director at (636) 851-4765.

Francis Howell High School also offers a wide range of other activities including: drama, vocal and instrumental music, speech, student government, National Honor Society and numerous clubs.

**Co-Curricular Activity Fees**

Many high school elective courses in the practical arts or fine arts genre have a co-curricular club or activity that enhance the curricular experience and often provide opportunities for students to compete at the state, regional and national level. If a student joins the co-curricular club and activity, they will be assessed a $40 District Activity Fee for their participation. The FHSD High School Activity Fee will be in addition to other club dues, class fees or activity participation fees assigned by the group sponsor.

**Who Is Eligible for Activities?**

In order for a student to participate in activities, they must fulfill completely all the regulations and requirements set forth by the M.S.H.S.A.A. and the Francis Howell School District.

**M.S.H.S.A.A Eligibility Standards**

1. **Student must be enrolled in courses offering 3.0 units and must earn 3.0 credits the preceding semester.** Summer school credits may apply to state eligibility standards provided the course is necessary for graduation or promotion and is placed on the school transcript. No more than 1.0 credit in summer school shall be counted toward 1st semester eligibility.
2. Must not have reached 19th birthday prior to July 1st preceding the opening of the school year.
3. Are ineligible after the class in which they entered 9th grade has graduated.
4. Are ineligible for varsity competition for one calendar year if they transfer to Francis Howell from either a public or parochial high school without a corresponding change of residence of parent or guardian. (There is a possibility of a waiver when transferring from private to public.)
5. Must be a good school citizen. Behavior unbecoming a participant could result in the principal revoking the privilege of a student to participate in an activity temporarily or permanently.
6. Must have satisfactorily passed the physical examination. Exams can be taken after February 1st of the preceding year and before school.
7. Must have a signed parent permission form and activities handbook acknowledgment form to participate in interscholastic activities.
8. All 9th grade students who have been promoted from the 8th grade are automatically eligible during their first semester of high school, but must meet district/state requirements their second semester.

**Francis Howell School District Eligibility Standards**

Any student who represents one of the Francis Howell High Schools by participating on athletic teams or other groups that perform in public (bands, chorus, dramatics, cheerleaders, pommers, speech, etc.) shall meet the
standards of eligibility specified in the constitution of the Missouri State High School Activities Association and those additional standards of the Francis Howell School District.

1. Student must maintain a minimum of 1.5 GPA.
2. Student must attend all practices, contests and other performances unless excused by the coach.
3. Student must not wear school equipment at any time except while participating in practice or school contest.
4. Once student has made a team in a sport, student cannot go out for another sport until the first sport season is over.
5. Student must not have any outstanding athletic fines.
6. Student must attend school the entire day of a game and must attend school on Friday to play on Saturday.
7. Student must have satisfactorily passed a physical examination dated after February 1st and preceding the first day of the season for the sport in which student is to participate. The examination report must specifically state that student “may participate in sports,” and must be signed by the physician who conducted the examination.
8. Any student who falsifies the physical examination form or any other required participation form is subject to suspension and/or permanent removal from the team or group by the Activities Director and/or Building Principal, and may be suspended or removed from additional activities depending upon the nature and magnitude of the offense.
9. Student must be a credible school citizen in accordance with the following standards:
   o Students who are serving out-of-school (or in-school) suspension may not practice for, or participate in, school activities during the suspension. Multiple and/or serious violations of the Code of Student Conduct may result from current and future school activities.
   o Student must not use, possess or distribute tobacco products, including cigarette or vaping products, while on school property or at school activities, whether on or away from district property.
   o Student must not use, possess or distribute alcohol or controlled substances at any time, whether on or away from district property.
   o Student must not be arrested for, charged with, or convicted of a felony or misdemeanor under either criminal or juvenile law, whether the offense occurs on or away from district property.

When a student is accused of an offense under either criminal or juvenile law, the charges may be dismissed or the student acquitted due to the high standard of proof required under criminal and juvenile proceedings; guilt beyond a reasonable doubt. However, the District reserves the right to make an independent determination regarding whether the student engaged in the misconduct alleged, and is required only to establish by a preponderance of the evidence (more likely than not) that the student engaged in such misconduct.

Transfer Students

All participants new to the Francis Howell School District in the past year are required to file a Transfer of Eligibility form.

NCAA – Eligibility Center

If a student is planning to enroll in college as a freshman and wishes to participate in Division I or Division II athletics, he/she must be certified by the NCAA. The Eligibility Center ensures consistent application of NCAA initial eligibility requirements for all prospective student athletes at all member institutions.

Athletes should code 9999 on their ACT Registration Form in order for the NCAA to receive their official test scores.

If you have questions about the NCAA eligibility, please call the NCAA Eligibility Center toll-free at 877-262-1492. The web address is www.eligibilitycenter.org

Select Login/New Account
Supply email address to receive instructions for registering

To view the list of approved core courses, click on “For High School”, view Core Course list, and enter the high xix
school code: 262-845. Approved core courses are designated in this enrollment guide with "NCAA approved" after the title of the course.

**It is the responsibility of student athletes to register with the NCAA Eligibility Center at:**
[www.eligibilitycenter.org](http://www.eligibilitycenter.org)

The NCAA recently released a SAT/ACT sliding scale that corresponds with the GPA requirements for the class of 2016 and beyond. Any student-athlete who is even remotely considering the possibility of playing a sport collegiately needs to understand the requirements.

**Here is a summary of the new D1 academic requirements for a Full Qualifier:**
- Earn a **core course GPA** of at least **2.30**.
- **10** of the **16** core course requirements must be satisfied **prior to the start of the senior year**.
- **7** of those **10** core courses must be from the **English, Math and Science subsections**.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale.
- Graduate high school

The NCAA has also introduced a status for students who do not meet the full qualifier requirements. An “Academic Redshirt” may receive a scholarship and practice with their team, but **may not participate in game competition** as a college freshman. Students with a core course GPA between 2.00 and 2.29 cannot attain “Full Qualifier” status, but may achieve “Academic Redshirt” status by meeting minimum sliding scale test score requirements.

There is a sliding scale on the NCAA website that shows the ACT/SAT score requirements. The scale uses the ACT sum score, which is calculated by adding English, Math, Reading and Science subscores. The NCAA does not use the writing component of the ACT.

Finally, just because a student-athlete meets the minimum NCAA academic standards, it doesn’t mean they will be admitted to play sports at the college of their choice. Many universities have academic standards for incoming freshman athletes that are **much higher than the NCAA minimum requirements**.

Student-athletes must start tracking courses early. A student-athlete should calculate their initial core course GPA at the end of their first semester in high school and continue to do so each semester thereafter.

**NAIA-Eligibility Center**

If a student is planning to enroll in college as a freshman and wishes to participate in National Association of Intercollegiate Athletics, he/she must be certified by the NAIA. The Eligibility Center ensures consistent application of NAIA initial eligibility requirements for prospective student athletes at all member institutions.

**Athletes should code 9876 on their ACT Registration Form in order for the NAIA to receive their official test scores.**

If you have questions about the NAIA eligibility, please call the NAIA Eligibility Center at 816-595-8180.

**It is the responsibility of student athletes to register with the NAIA Eligibility Center at** [www.playnaia.org](http://www.playnaia.org)
# FINE ARTS AND PRACTICAL ARTS OVERVIEW

*Full-Year 1.0 Unit Courses (All Others Half-Year 0.5 Unit Courses)*

## FINE ARTS

1.0 units of credit for graduation requirements

<table>
<thead>
<tr>
<th>ART</th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td><em>AP Art History</em></td>
<td>Digital Art &amp; Design I</td>
<td>Printmaking I</td>
</tr>
<tr>
<td><em>AP Studio Art</em></td>
<td>Digital Art &amp; Design II</td>
<td>Printmaking II</td>
</tr>
<tr>
<td><em>Introduction to Art</em></td>
<td>Drawing I</td>
<td>Sculpture I</td>
</tr>
<tr>
<td>Ceramics I</td>
<td>Drawing II</td>
<td>Sculpture II</td>
</tr>
<tr>
<td>Ceramics II</td>
<td>Painting I</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Painting II</td>
<td></td>
</tr>
</tbody>
</table>

## MUSIC

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<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><em>Introduction to Music Appreciation</em></td>
<td><em>Concert Band</em></td>
<td><em>Percussion</em></td>
</tr>
<tr>
<td><em>AP Music Theory</em></td>
<td><em>Concert Choir</em></td>
<td><em>Symphonic Band</em></td>
</tr>
<tr>
<td><em>Chamber Choir</em></td>
<td><em>Concert Choir Honors</em></td>
<td><em>Symphonic Band Honors</em></td>
</tr>
<tr>
<td><em>Chamber Choir Honors</em></td>
<td><em>Jazz Ensemble</em></td>
<td><em>Treble Choir/Chorale</em></td>
</tr>
<tr>
<td><em>Chorus</em></td>
<td><em>Jazz Ensemble Honors</em></td>
<td><em>Treble Choir/Chorale Honors</em></td>
</tr>
</tbody>
</table>

## THEATRE

| Actor’s Studio E Improv & Sketch Comedy | Technical Theatre I | From Broadway to Hollywood |
| Technical Theatre II | Technical Theatre II | Intensified Theatre |

## PRACTICAL ARTS

1.0 units of credit for graduation requirements

<table>
<thead>
<tr>
<th>BUSINESS</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Computer Science Principles</em></td>
<td><em>Cybersecurity</em></td>
<td>Multimedia I</td>
</tr>
<tr>
<td><em>Computer Science A</em></td>
<td>Desktop Publishing</td>
<td>Multimedia II</td>
</tr>
<tr>
<td><em>AP Economics (And Personal Finance)</em></td>
<td>Desktop Publishing II</td>
<td>Personal Finance</td>
</tr>
<tr>
<td><em>Accounting I</em></td>
<td><em>Introduction to Business</em></td>
<td>Personal Finance Online</td>
</tr>
<tr>
<td><em>Accounting II</em></td>
<td>Introduction to Computer Applications</td>
<td>Web Page Design</td>
</tr>
<tr>
<td><em>Business/Cooperative Work Experience</em></td>
<td><em>Marketing I</em></td>
<td>Web Page Design II</td>
</tr>
<tr>
<td><em>Business Technology</em></td>
<td><em>Marketing II</em></td>
<td>You and the Law</td>
</tr>
<tr>
<td>Business Entrepreneurship/Junior Achievement</td>
<td><em>Marketing/Cooperative Work Experience</em></td>
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</tr>
</tbody>
</table>

## COMMUNICATION ARTS

| Digital Photojournalism | *Newspaper Production* | *Newspaper Production Honors* |
| *Yearbook Publication*  | *Yearbook Publication Honors* | Broadcast Journalism |

## FAMILY AND CONSUMER SCIENCES

| Foods & Nutrition I | Fashion Construction I | Child Development I |
| Foods & Nutrition II | Fashion Construction II | Child Development II |
| *Culinary Arts*   | Fashion | Human Relations |
| *Culinary Arts Work Experience* | Advanced Fashion Construction | FACS Senior Leadership |
| International Cuisine | Housing & Interior Design | Pathway to Teaching Careers |
| *Pathway to Teaching Careers Internship* |                     |                     |

## INDUSTRIAL TECHNOLOGY

| *CAD I* | *CAD II* | *Residential Architecture* |
| *Woodworking I* | *Woodworking II* |                     |

## PROJECT LEAD THE WAY - ENGINEERING & COMPUTER SCIENCE

| *Introduction to Engineering Design* | *Principles of Engineering* | *Digital Electronics* |
| *Cybersecurity* | *Computer Science Principles* | *Computer Science A* |
| *Engineering Design and Development* |                     |                     |

## LEWIS AND CLARK CAREER CENTER (2-Year Programs Where Students Earn 3.0 Units of Credit/Year)

| Applied Retail & Business Skills | Computer Maintenance and Networking | Health Occupations & Health-Related |
| Auto Collision Repair | Computer Software Development | Occupations |
| Auto Service Technology | Design Drafting Technology/CAD | Heating, Ventilation/A.C. |
| Brick & Stone Masonry | Early Childhood Careers | Power Equipment Technology |
| Building Trades-Carpentry | Electrical Trades | Precision Machining Technology |
| Combination Welding |                     |                     |
**REGISTRATION DEADLINE:** January 24, 2019

<table>
<thead>
<tr>
<th>Subject</th>
<th>9th Grade</th>
<th>10th Grade</th>
<th>11th Grade</th>
<th>12th Grade</th>
</tr>
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<tbody>
<tr>
<td><strong>Communication Arts</strong></td>
<td></td>
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<tr>
<td>English I Pre-AP</td>
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<tr>
<td>English II Pre-AP</td>
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<tr>
<td>English III</td>
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<td></td>
<td>AP English Language and Composition</td>
<td>1 credit</td>
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<tr>
<td>Communication Arts Elective</td>
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<tr>
<td><strong>Mathematics</strong></td>
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<tr>
<td>Algebra I A</td>
<td></td>
<td></td>
<td>Geometry</td>
<td></td>
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<tr>
<td>Algebra I</td>
<td></td>
<td></td>
<td>Algebra II</td>
<td></td>
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<tr>
<td>Geometry</td>
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<tr>
<td>Geometry HNR</td>
<td></td>
<td></td>
<td>Statistics*</td>
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<tr>
<td>Algebra II</td>
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<td>Algebra III</td>
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</tr>
<tr>
<td>Algebra II Honor</td>
<td>1 credit</td>
<td></td>
<td>Geometry</td>
<td></td>
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<tr>
<td><strong>Science</strong></td>
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<tr>
<td>Physical Science</td>
<td></td>
<td></td>
<td>Biology</td>
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<tr>
<td>Biology</td>
<td>Pre-AP Biology</td>
<td></td>
<td>Pre-AP Chemistry</td>
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<tr>
<td>Pre-AP Biology</td>
<td>AP Physics I</td>
<td></td>
<td>Pre-Calculus</td>
<td></td>
</tr>
<tr>
<td>Principles of Biomedical Science</td>
<td>1 credit</td>
<td></td>
<td>Human Body Systems</td>
<td></td>
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<tr>
<td>Principles of Biomedical Science</td>
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<tr>
<td><strong>Social Studies</strong></td>
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<tr>
<td>US History</td>
<td>Modern World History</td>
<td></td>
<td>American Government</td>
<td></td>
</tr>
<tr>
<td>Pre-AP US History</td>
<td>Pre-AP Modern World History</td>
<td></td>
<td>AP Gov and Politics*</td>
<td></td>
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<tr>
<td>AP World History</td>
<td>AP World History</td>
<td></td>
<td>AP World History</td>
<td>1 credit</td>
</tr>
<tr>
<td>Social Studies Elective recommended for college.</td>
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<td></td>
<td>Social Studies Elective required for Cum Laude.</td>
<td></td>
</tr>
<tr>
<td><strong>Physical Education/Health</strong></td>
<td>Personal Lifetime Fitness (1/2 credit)</td>
<td>9th Grade Health (1/2 credit)</td>
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<tr>
<td>(1 credit PE plus ½ credit Health required)</td>
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<tr>
<td><strong>During the four years of high school, students must complete the following:</strong></td>
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<tr>
<td>1 credit of practical art</td>
<td>1 credit of fine art</td>
<td>½ credit additional PE</td>
<td>½ credit personal finance</td>
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</tr>
</tbody>
</table>

*Math Analysis/Statistics are semester courses

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24 credits required to graduate

**COURSE CHANGES WILL NOT BE MADE ONCE REGISTRATION IS COMPLETE.**

I have reviewed and approved the four year plan and course selections.

Parent Signature ___________________________________________________________________

Student Signature ___________________________________________  e-mail address ___________________________________________________________________
A+ TUTORING

0304313 A+ TUTORING FOR CREDIT 0.5 Units

This course is only available for registration through the high school A+ Coordinator and is based on availability of tutor/mentor needs in the building.

A+ TUTORING FOR CREDIT is an opportunity for students to earn credit for A+ hours while mentoring or tutoring peers in a classroom for the length of a semester. All hours must be completed at the student’s high school during regular times of attendance. Class assignments will be based on availability and classroom needs. A+ TUTORING FOR CREDIT requires more hours than the typical criteria for A+ mentoring and tutoring as it is a semester course. Students must maintain a record of good citizenship according to the State A+ Schools Program, FHSD Code of Conduct, and High School Student Handbook.

AP CAPSTONE

AP Capstone is a College Board program that equips students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges. It cultivates curious, independent, and collaborative scholars and prepares them to make logical, evidence-based decisions. AP Capstone is comprised of two AP courses — AP Seminar and AP Research — and is designed to complement and enhance the discipline-specific study in other AP courses. Participating schools can use the AP Capstone program to provide unique research opportunities for current AP students, or to expand access to AP by encouraging students to master the argument-based writing skills that the AP Capstone program develops.

0505471 Semester 1 AP SEMINAR 1 Unit
0505472 Semester 2 Prerequisite: None. Grade 10-12.

The AP Capstone Seminar course is an inquiry-based course that aims to engage students in cross-curricular conversations that explore real-world topics and issues from multiple perspectives. This course is designed around six essential skills and their development—critical thinking and reasoning, critical reading, inquiry and research, argumentation, communicating publicly, and collaboration. Students in this course will be working collaboratively toward the completion of a team research project and presentation, an individual research project and presentation, and an end-of-course examination administered by the AP College Board. It is essential that students come to this class self-motivated, willing to step outside the bounds of their comfort zone, and ready to work hard as they will be making several presentations in front of classes, peers, and potentially professional colleagues. This course places great emphasis on reading, writing, and presentation both in and out of class.

0505481 Semester 1 AP RESEARCH (will not be offered until 19-20) 1 Unit
0505482 Semester 2 Prerequisite: AP Seminar. Grade 11-12.

The AP Capstone Research course is an inquiry-based course that aims to engage students in scholarly research with the end goal of making a unique contribution to that conversation. Students are encouraged to investigate real-world topics of interest. This course is designed around six essential skills and their development—critical thinking and reasoning, critical reading, inquiry and research, argumentation, communicating publicly, and collaboration. Students will be working toward the completion of a scholarly research paper of 4,000-5,000 words and a 15-20 minute presentation with oral defense. There is no end-of-course examination administered by the AP College Board; rather, a score is assigned from the culmination of both paper and presentation. This course places great emphasis on academic reading, writing, and presenting. Students are encouraged to seek a consultant in her/her field of interest; however, this is not mandatory and will depend upon the student’s research question.
# BUSINESS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Prerequisite</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>0303001 S1</td>
<td>ACCOUNTING I</td>
<td>1</td>
<td>None</td>
<td>10-12</td>
</tr>
<tr>
<td>0303002 S2</td>
<td>ACCOUNTING I</td>
<td>1</td>
<td>None</td>
<td>10-12</td>
</tr>
</tbody>
</table>

Accounting is an essential course for anyone planning a college major in business or an immediate career in the business world. This course is especially appropriate for small business (single ownership or partnership) operation. Emphasis is placed on why financial records are kept, how they are kept, and how to use them as guidelines for decision making. **Internet use is an important part of this course.** Qualifies for articulated Associate of Applied Science (A.A.S.) credit at St. Charles Community College (not A.A. transfer credit).

<table>
<thead>
<tr>
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<th>Units</th>
<th>Prerequisite</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>0303051 S1</td>
<td>ACCOUNTING II</td>
<td>1</td>
<td>Successful completion of Accounting I or teacher recommendation</td>
<td>11-12</td>
</tr>
<tr>
<td>0303052 S2</td>
<td>ACCOUNTING II</td>
<td>1</td>
<td>Successful completion of Accounting I or teacher recommendation</td>
<td>11-12</td>
</tr>
</tbody>
</table>

In this second-year accounting course, students will apply the basic principles learned in the first-year course to methods commonly found in business, especially corporations. Students will prepare and analyze financial statements and budgets, and use computers to further explore accounting. This course helps students match the rapid pace of college accounting required for any business degree and to be better qualified for an entry-level accounting job. **Internet use is an important part of this course.** May qualify for dual credit at Lindenwood University.

<table>
<thead>
<tr>
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<th>Units</th>
<th>Prerequisite</th>
<th>Grade</th>
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</thead>
<tbody>
<tr>
<td>0303271 S1</td>
<td>AP ECONOMICS (AND PERSONAL FINANCE*) – NCAA-approved</td>
<td>1</td>
<td>Algebra II with “C” average recommended or concurrently enrolled in Algebra II</td>
<td>11-12</td>
</tr>
<tr>
<td>0303272 S2</td>
<td>AP ECONOMICS (AND PERSONAL FINANCE*) – NCAA-approved</td>
<td>1</td>
<td>Algebra II with “C” average recommended or concurrently enrolled in Algebra II</td>
<td>11-12</td>
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</tbody>
</table>

The purpose of the AP Economics course is to give students a thorough understanding of the principles of micro and macroeconomics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets, and includes the study of factor markets and of the role of governments in promoting greater efficiency and equity in the economy. The study of national income and price-level determination and also developing students’ familiarity with economics performance measures, the financial sector, stabilization policies, economic growth, and international economies will be included. Students are expected (although not required) to take the Advanced Placement Micro Economics and Macro Economics exams.

*The personal finance proficiency test will be administered in accordance with the state graduation requirements. Students must pass the proficiency test and pass AP Micro and AP Macro Economics in order to gain credit for personal finance.

<table>
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<th>Units</th>
<th>Prerequisite</th>
<th>Grade</th>
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<tbody>
<tr>
<td>0303153</td>
<td>BUSINESS ENTREPRENEURSHIP / JUNIOR ACHIEVEMENT</td>
<td>.5</td>
<td>None</td>
<td>11-12</td>
</tr>
</tbody>
</table>

The primary goal for this course is to introduce students to our nation’s free enterprise system, the operation of small businesses and entrepreneurs and the impact of the economy and marketing trends on business. The students will operate a student company in which they will decide what product to sell, calculate its retail price, how to market the item, and how much profit (or loss) was made. Students will share the profits of the company for the semester. All textbook materials are provided by Junior Achievement. **Qualifies (in conjunction with Introduction to Business) for articulated Associate of Applied Science (A.A.S.) credit at St. Charles Community College (not A.A. transfer credit).**
0303501 Semester 1  BUSINESS TECHNOLOGY  1 Unit
0303502 Semester 2  Prerequisite: None
                  Grade 11-12
This course is designed to prepare students for college business classes and to develop qualities and skills necessary for entry-level business employment. Students learn advanced word processing, spreadsheets, database management, presentation design, desktop publishing, and workplace readiness skills. Students will also create a resume and learn how to prepare for an interview. This technology class is essential for college and career. Internet use is an important part of this course. Senior students enrolled in this course may obtain a part-time business job as described in Business/Cooperative Work Experience.

0303651 Semester 1  BUSINESS / COOPERATIVE WORK EXPERIENCE  1-2 Units
0303652 Semester 2  Prerequisite: Enrollment in Business Technology
                  Grade 12
Students receive on-the-job training in a business/office situation. The instructional program is planned, supervised, and evaluated by both the teacher-coordinator and the employer. One unit of credit is earned for working 10 to 19 hours each week. Two units of credit are earned for working 20 or more hours each week. The amount of credit may be different each semester.

0304053  DESKTOP PUBLISHING I  .5 Units
Prerequisite: None
Grade 9-12
Students will use industry standard desktop publishing software such as Adobe Photoshop, and Adobe InDesign CC to design a variety of business and promotional publications such as: flyers, brochures, newsletters, menus, magazine covers, marker boards and calendars. This course will also include: desktop publishing terminology, digital images to create typefaces, layouts and graphics. Internet use is an important part of this course. Qualifies for articulated Associate of Applied Science (A.A.S.) credit at St. Charles Community College (not A.A. transfer credit).

0304063  DESKTOP PUBLISHING II  .5 Units
Prerequisite: Successful completion of Desktop Publishing I
Grade 9-12
Desktop Publishing II is the continuation of Desktop Publishing I. Students will develop advanced desktop publishing skills using industry-standard software such as Adobe Photoshop, Adobe InDesign, and Adobe Illustrator. Students will gain the skills necessary to communicate effectively using desktop publishing software while producing personal and professional publications. Editing images and creating page layouts for print and digital publication will be the emphasis of the coursework. Completion of Desktop Publishing II can lead to accreditation as an Adobe Certified, Associate in Visual Communication (ACA) which is an Industry Recognized Credential (IRC) beneficial to student's continuing education or entering the workforce after graduation. This IRC is noted on student's transcript.

0303301 Semester 1  INTRODUCTION TO BUSINESS  1 Unit
0303302 Semester 2  Prerequisite: None
                  Grade 9-10
This course is designed to introduce students to how business works in today's society and to provide a foundation for other business courses. Students will explore aspects of the business world including: marketing, management, economics, ethics, social responsibility, job and interview readiness skills, career exploration, business communication and technology. Workplace communication, leadership skills and presentation media will be taught throughout the class. This course will also serve as a preview to other courses offered in the business department. Computer and Internet use are required in this course. Qualifies (in conjunction with Business Entrepreneurship/ Junior Achievement or Personal Finance for articulated Associate of Applied Science (A.A.S) credit at St Charles Community College (not A.A. transfer credit)
INTRODUCTION TO COMPUTER APPLICATIONS .5 Units
Prerequisite: None
Grade 9-12

This semester course introduces students to basic keyboarding skills while working in the Windows Operating System and the business applications Microsoft Word, Excel, and PowerPoint. Learning many timesaving skills in Microsoft Office will be a powerful asset that will be a focus of this class. **Internet use is an important part of this course.**

0403801 Semester 1 MARKETING I 1 Unit
0403802 Semester 2
Prerequisite: None
Grade 11-12

This course is designed to introduce the student to the field of marketing, covering such topics as: advertising, promotions, product development, distribution, communication, human relations, and career exploration. Marketing students are strongly encouraged to join DECA, an Association of Marketing Students. This course is recommended for the college-bound student interested in marketing or business, as well as the non-college bound student interested in marketing occupations. Senior students enrolled in Marketing I may obtain a part-time job as described in Marketing/Cooperative Work Experience. **Internet use is an important part of this course.** Qualifies (if followed by Marketing II) for articulated Associate of Applied Science (A.A.S.) credit at St. Charles Community College (not A.A. transfer credit).

0403901 Semester 1 MARKETING II 1 Unit
0403902 Semester 2
Prerequisite: Successful completion of Marketing I
Grade 12

This course is designed to give additional attention to the topics covered in Marketing I with an emphasis on personal selling, market research, pricing and entrepreneurship. This is a project-based course in which the students will have the opportunity to develop sales presentations, conduct a marketing research project as it relates to advertising, create a sales catalog using different pricing strategies and investigate the process of starting your own business. Marketing students are strongly encouraged to join DECA, an Association of Marketing Students. This course is recommended for the college and non-college bound student. Students enrolled in Marketing II may obtain a part-time job as described in Marketing/Cooperative Work Experience. **Internet use is an integral part of this course.** Qualifies (in conjunction with Marketing I) for articulated Associate of Applied Science (A.A.S.) credit at St. Charles Community College (not A.A. transfer credit) and dual credit at Lindenwood University.

0403851 Semester 1 MARKETING/COOPERATIVE WORK EXPERIENCE 1-2 Units
0403852 Semester 2
Prerequisite: enrollment in Marketing I or II (Marketing II students take first priority)
Grade 12

Students receive on-the-job training in a marketing/sales area of their choice. Marketing jobs provide educational opportunities beyond the school environment by working on an approved job site during the afternoon or evening. One unit of credit is earned for working 10 to 19 hours each week. Two units of credit are earned for working 20 or more hours each week. The amount of credit may be different each semester. This instructional program is planned, supervised, and evaluated by both the teacher-coordinator and employer.

MULTIMEDIA I .5 Units
Prerequisite: None
Grade 9-12

This course will introduce students to the basics of multimedia, covering concepts such as Podcasting, video production, sound and video capture, using various editing software for different multimedia applications. The course provides hands-on experiences for creating beginning computer multimedia productions. Students will work with multimedia software to develop electronic presentations. They will learn how to manipulate text, art and graphics, photography, animation, audio, and video for presentations in various media formats. **Internet use is an integral part of this course.**
MULTIMEDIA II .5 Units
Prerequisite: Multimedia I
Grade 9-12
Multimedia II is the continuation of Multimedia I. Students will continue to develop skills in project management and collaboration, design, research and communication, and professional video production. Each project will add more challenging skills as students learn storytelling, capturing and editing video and audio, web, or digital videotape. Completion of Multimedia II can lead to accreditation as an Adobe Certified Associate in Video Communication (ACA) which is an Industry Recognized Credential beneficial to students entering the field of technology after graduation. Internet use is an integral part of this course.

PERSONAL FINANCE .5 Units
Grade 11-12
Students will learn how to maximize their earnings, create a budget, plan for major expenditures, save for the future, invest wisely, and keep financial records. Students will learn about banking, taxes, credit, insurance, the stock market, and retirement accounts. Personal Finance prepares students to handle personal financial matters as a teenager and adult, including how to make money work for them. Students will be involved in a variety of simulations and classroom activities that can put them on the road to becoming an educated consumer. This course fulfills the state requirement for .5 credits of Personal Finance. In conjunction with Introduction to Business, qualifies for articulated Associate of Applied Science (A.A.S.) credit at St. Charles Community College (not A.A. transfer credit).

PERSONAL FINANCE ONLINE .5 Units
Grade 11-12
Beginning with the 14-15 school year, students have the opportunity to take Personal Finance online, in a blended learning environment, which means some of the coursework will be completed online and some of the coursework will be done in class with the teacher. This course will be offered at the beginning or the end of the day and will have limited enrollment.

Students will learn how to maximize their earnings, create a budget, plan for major expenditures, save for the future, invest wisely, and keep financial records. Personal Finance prepares students to handle personal financial matters as a teenager and adult, including how to make money work for them. Students will be involved in a variety of simulations and classroom activities that can put them on the road to becoming an educated consumer. This course fulfills the state requirement for .5 credits of Personal Finance. Internet use is an important part of this course. In conjunction with Introduction to Business, qualifies for articulated Associate of Applied Science (A.A.S.) credit at St. Charles Community College (not A.A. transfer credit).

COMPUTER SCIENCE PRINCIPLES 1 Unit
(1st Level Project Lead the Way)
Prerequisite: None
Qualifies for Honors credit when a 6 or higher (9 maximum) is earned on the PLTW final exam. Grade 9-12
Computer Science Principles is the first of three computer science course offerings that are planned to be phased in over the next three years (see below for phase-in process) and are part of a curriculum known as Project Lead the Way (PLTW). This is a foundation course in the computer science curriculum sequence that offers a dynamic high school program providing students with real-world learning and hands-on experience. Students will 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. This course meets the third course requirement of the PLTW Engineering sequence. Students may choose to take the AP Computer Science Principles exam upon completion of this course. Options for college credit are available.
0303931 Semester 1  COMPUTER SCIENCE A  1 Unit
0303932 Semester 2
Prerequisite: Computer Science Principles
Qualifies for Honors credit when a 6 or higher (9 maximum) is earned on the PLTW final exam. Grade 10-12

Computer Science A is the second of three computer science course offerings that are planned to be phased in over the next three years (see below for phase-in process) and are part of a curriculum known as Project Lead the Way (PLTW). Students collaborate to produce programs that integrate mobile devices and leverage those devices for distributed collection and data processing. Students analyze, adapt, and improve each other's programs while working primarily in Java™ and other industry-standard tools. After completing this course, students are eligible to sit for AP Computer Science A test. Options for college credit are available.

0303971 Semester 1  CYBERSECURITY  1 Unit
0303972 Semester 2
Prerequisite: Computer Science A or Computer Science Principles
Qualifies for Honors credit when a 6 or higher (9 maximum) is earned on the PLTW final exam. Grade 10-12

This course 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. Cybersecurity 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.

0303103  WEB PAGE DESIGN I  .5 Units
Prerequisite: None
Grade 9-12

This course will cover the fundamental concepts of Web page design and creation, Web graphics and how the Internet and World Wide Web works. Students will design and develop Web pages using Web page editing/publishing software such as Dreamweaver CC and optimize images for Web pages. Students will learn to code using HTML 5 and will use online development programs to build web sites. Students will combine text images, sound, and interactivity to web pages. Student will be introduced to multimedia software. Internet use is an important part of this course.

0303123  WEB PAGE DESIGN II  .5 Units
Prerequisite: Web Page Design I
Grade 9-12

This course explores the use of Web programming languages (HTML, Javascript, etc.), graphics applications, and other Web authoring tools to design, edit, and maintain Web sites and pages as a continuation of Web Page Design I. Students will expand their knowledge about hosting services that may be used to launch a Web site. Topics such as Web design principles, user interfaces, special effects, animation, navigation, and emerging Web technologies are included in the coursework.

0303203  YOU AND THE LAW  .5 Units
Prerequisite: None
Grade 11-12

You and The Law will guide students through the basic legal principles relevant to their roles as citizens, consumers, and employees exploring personal, business, and consumer laws beyond American Government coursework. Course topics include characteristics of the U.S. civil and criminal laws, rights of private property, basic elements of contracts, employer-employee relations, landlords and tenants’ rights, individual rights, and laws pertaining to computer use. *Students will have the opportunity to attend a one day field trip to the Court House to connect learning with real life.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Semester 1</th>
<th>Semester 2</th>
<th>Prerequisite</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0505001</td>
<td></td>
<td></td>
<td>None</td>
<td>ENGLISH I - NCAA-approved</td>
</tr>
</tbody>
</table>

This skill-based course is an introduction to the literacy skills students will need to be college and career ready: reading, writing, listening/speaking, and research. Emphasis will be placed on approaching reading and writing as processes. Expository, narrative, descriptive and persuasive writing will be addressed. Research will be integrated throughout the course. Students will read and respond to literature concerning self-exploration and cross-curricular studies.

<table>
<thead>
<tr>
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<th>Semester 1</th>
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<th>Prerequisite</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0505101</td>
<td></td>
<td></td>
<td>Must meet honors criteria</td>
<td>PRE-AP ENGLISH I - NCAA-approved</td>
</tr>
</tbody>
</table>

This course is for the advanced student, ready for rigorous academic content requiring advanced reading proficiency, and will be an introduction to the literacy skills and thinking skills students will need to be college and career ready and in future AP classes. This course will focus on reading, writing, listening/speaking, and research. Emphasis will be placed on approaching reading and writing as processes. Expository and argumentative writing will be addressed. Research will be integrated throughout the course. Students will read and respond to literature using self-exploration skills and cross-curricular studies. This course will be vertically aligned to the AP standards and will be designed to achieve success in future AP classes. Summer homework is a required element of this course.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Semester 1</th>
<th>Semester 2</th>
<th>Prerequisite</th>
<th>Type</th>
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</thead>
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<tr>
<td>0505151</td>
<td></td>
<td></td>
<td>English I</td>
<td>ENGLISH II - NCAA-approved</td>
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</table>

This skill-based course will focus on the literacy skills necessary to be college and career ready: reading, writing, listening/speaking and research. Emphasis will be placed on approaching reading and writing as processes. Expository, narrative, descriptive and persuasive writing will be addressed. Research will be integrated throughout the course. Students will be read and respond to literature from a variety of cultures.

<table>
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<tr>
<th>Course Code</th>
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<th>Semester 2</th>
<th>Prerequisite</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0505251</td>
<td></td>
<td></td>
<td>English I and meet honors criteria</td>
<td>PRE-AP ENGLISH II - NCAA-approved</td>
</tr>
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</table>

The course is for the advanced student and will be an introduction to the literacy skills students will need to be college and career ready and in future AP classes. This course will focus on reading, writing, listening/speaking, and research. Emphasis will be placed on approaching reading and writing as processes. Expository and argumentative writing will be addressed. Research will be integrated throughout the course. Students will read and respond to literature using self-exploration skills and cross-curricular studies. This course will be vertically aligned to the AP standards and will be designed to achieve success in future AP classes. Summer homework is a required element of this course.

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<th>Prerequisite</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>0505301</td>
<td></td>
<td></td>
<td>English II</td>
<td>ENGLISH III - NCAA-approved</td>
</tr>
</tbody>
</table>

This junior-level course will ensure students are college and career ready by exploring how American literature and writing has evolved over time. Students will explore text features, author purpose and style, societal background and influence, historical events and their impact on morale, the evolution of writing techniques and how they affect a text. The foundation of these units serves as a foundation in American Literature to prepare students for European literature.
One of the goals of Advanced Placement English Language and Composition is to reinforce the literacy skills taught in Pre AP English I and Pre AP English II while beginning to prepare students for the challenging reading and writing they will encounter in College and life beyond high school. Although a majority of the assigned readings in the class will be nonfiction texts, an AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer’s purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. The course often allows students to write in a variety of forms – narrative, exploratory, expository, argumentative – and on a variety of subjects from personal experiences to public policies, from imaginative literature to popular culture. As in the college course, its purpose is to enable students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers. The AP Language and Composition course assumes that students already understand and use standard English grammar. The intense concentration on language use in this course should enhance their ability to use grammatical conventions both appropriately and with sophistication as well as to develop stylistic maturity in their prose. Summer homework is a required element of this course. Advanced credit, when available.

Senior Literature and Composition prepares students for post-secondary literacy tasks by incorporating reading (both literature and informational texts at the college and career readiness level) with analytical student writing. Throughout the course of the year, students will develop and demonstrate their writing ability through narrative, expository, and argumentative styles. The class also incorporates various methods of integrated literacy (listening skills, media, and speaking). Students will evaluate complex texts from a range of genres, cultures and time periods. This evaluation incorporates an understanding of writing as a craft; including consideration of the author’s style and purpose in writing. Through wide and deep reading, students will actively determine central themes and ideas and analyze those themes throughout the text. Through discussion and writing students may relate a work to its historical and social context while also reflecting on its relevance today.

One of the goals of Advanced Placement English Literature and Composition is to reinforce the literacy skills taught in Pre AP English I, Pre AP English II, and AP Language and Composition while beginning to prepare students for the challenging reading and writing they will encounter in College and life beyond high school. Students will focus on practicing all communication skills including reading, writing, speaking, listening, viewing, and finding and interpreting information. They will also be expected to combine their knowledge and experience by reflecting, exploring, and generating new ideas to solve problems and make decisions. They will study a wide variety of literature that focuses on self-exploration and expanding students’ knowledge and acceptance of the variety of human experiences and cultures. They will also practice effectively communicating their ideas and experiences to others through both speaking and writing. Additionally, students will participate in rigorous course activities to help prepare them for the Advanced Placement test. Summer homework is a required element of this course. Advanced credit when available.

This course is designed for the student who enjoys reading, discussing, and analyzing literature. Students are expected to read at home daily and will complete numerous novels over the course of the semester. They will learn and implement vocabulary skills and active-reading strategies. Writing, research, and technology are integral parts of the course and will be used to enhance students’ understanding of literature.
In this course, students experiment with the writing process and the modes of writing, both fiction and nonfiction. Students will be expected to work cooperatively with their peers and their instructor toward strengthening their writing and their reading skills. Students will read and analyze published works as a model for their own writing. Through frequent writing and formal/informal assessment, students’ style will be further developed.

This course will build upon the skills taught in English I and English II and reinforce the skills presented in and required for English III and English IV to prepare students for the challenging reading and writing they will encounter in college and beyond. Students will focus on practicing all communication skills including reading, writing, speaking, listening, viewing, finding, and interpreting information with mythological-related readings. Students will study and analyze mythological tales from around the world and then apply this information to classic literary works in order to explain and analyze the allusions used.

Sports Literature will consist of an examination of the connection between sport and society from several perspectives through interaction with literature presented by authors from various genres. This course will prepare students for the challenging reading and writing they will encounter in college and beyond. Readings in the course are selected to be high-interest and thought provoking, covering a range of modern fiction, non-fiction, poetry, biographies, and commentaries. Writing in the course is designed to be both descriptive and critical in an attempt to provide the student with the opportunity to express personal reactions with confidence and clarity via argumentative and informative pieces. Through the use of sports literature and other media forms, the primary objective is to develop a greater sensitivity to the world of sport and understand the relationship of sport and society.

This course is designed to introduce students to the art of public speaking and to prepare them for speaking in both competitive speaking opportunities and real-world settings, including professional and personal environments. Students will focus on practicing all communication skills, including reading, writing, speaking, listening, and analyzing information. Competitive speaking events taught in this course will include: prose/poetry and storytelling.

This course is an advanced study of the art of public speaking and will build upon the elements of communication learned in Speech I. Students will study, analyze, and evaluate variety of speeches in order to create and present both memorized and extemporaneous speeches. Competitive speaking events taught in this course will include: original oratory, extemporaneous speaking, and radio.

In this course, students discuss contemporary problems and debate current universal issues. Research techniques, organizational skills, and the fundamentals of oral presentation will be key components. Students will do written casework, in-class evaluations, and formal oral presentations of both policy and value debates.
0506453  JOURNALISM – NCAA-approved
Prerequisite: None

The student will explore all aspects of newspaper, magazines and yearbooks and/or broadcast and emergent media while they write, interview, edit, and design publications and apply media law and ethics. Due to the fact that this course is the foundation course for the publication courses, this course is recommended before taking Newspaper Production or Yearbook Publication.

0506483  BROADCAST JOURNALISM
Prerequisite: None

Students will learn to create (write, shoot, edit) and produce broadcast video stories. There will be an emphasis on video storytelling for a variety of different video styles and lengths. Inspiration for the video stories will be drawn from events and people at the school, focusing on recent events and narrative stories. Additional inspiration will be drawn from other high school media, as well as national and regional media. Students will learn to create professional video stories for publication in a variety of formats from traditional broadcast publishing platforms to social media.

ELA ELECTIVES (for Practical Arts Credit)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>0506101</td>
<td>NEWSPAPER PRODUCTION</td>
<td>1 Unit</td>
</tr>
<tr>
<td>0506102</td>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Credit: 1 Unit of Practical Arts or Elective Credit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite: Journalism, Journalism II, Digital Photojournalism and/or teacher recommendation</td>
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</tbody>
</table>

This class will be responsible for the production of the school newspaper. Students will be trained and work in the following areas: writing, photography, design, business and emerging media. This is a co-curricular course.

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>0506111</td>
<td>NEWSPAPER PRODUCTION HONORS</td>
<td>1 Unit</td>
</tr>
<tr>
<td>0506112</td>
<td>Semester 2</td>
<td></td>
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<tr>
<td></td>
<td>Credit: 1 Unit of Practical Art or Elective Credit</td>
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<tr>
<td></td>
<td>Prerequisite: Teacher Recommendation (Journalism, Journalism II, or Digital Photojournalism highly encouraged)</td>
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</tbody>
</table>

This class will be responsible for the production of the school newspaper. Students will be trained and work in the following areas: writing, photography, design, business and emerging media. This is a co-curricular course. This course is designed for the student who wishes to take a more rigorous approach to the study of advanced Newspaper Production. In addition to normal production duties, students will complete an additional project each semester for the honors credit. Working with the teacher, the student will design and implement this independent project, which in addition to hours outside of class to research, will require a presentation.

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<th>Units</th>
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</thead>
<tbody>
<tr>
<td>0506201</td>
<td>YEARBOOK PUBLICATION</td>
<td>1 Unit</td>
</tr>
<tr>
<td>0506202</td>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Credit: 1 Unit of Practical Arts or elective credit</td>
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<tr>
<td></td>
<td>Prerequisite: Journalism, Journalism II, Digital Photojournalism and/or teacher recommendation</td>
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</table>

This class will be responsible for the production of the school yearbook. Students will be trained and work in the following areas: writing, photography, design, business and emerging media. This is a co-curricular course.

<table>
<thead>
<tr>
<th>Code</th>
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<th>Units</th>
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</thead>
<tbody>
<tr>
<td>0506211</td>
<td>YEARBOOK PUBLICATION HONORS</td>
<td>1 Unit</td>
</tr>
<tr>
<td>0506212</td>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Credit: 1 Unit of Practical Art or Elective Credit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite: Teacher Recommendation (Journalism, Journalism II, or Digital Photojournalism highly encouraged)</td>
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</tr>
</tbody>
</table>
This class will be responsible for the production of the school yearbook. Students will be trained and work in the following areas: writing, photography, business, design and emerging media. This is a co-curricular course. This course is designed for the student who wishes to take a more rigorous approach to the study of advanced Yearbook Production. In addition to normal production duties, students will complete an additional project each semester for the honors credit. Working with the teacher, the student will design and implement this independent project, which in addition to hours outside of class to research, will require a presentation.

0506503 DIGITAL PHOTOJOURNALISM .5 Units
Credit: ½ Unit of Practical Arts Credit or Elective Credit
Prerequisite: English I or concurrent enrollment with teacher recommendation

Students will explore all aspects of visual journalism using 35mm cameras, digital video cameras and computers. Topics covered will include visual composition, operation of equipment, computer editing programs and media law and ethics. Assignments will be geared toward publication in one of the school publications. Successful completion of this course meets the recommended prerequisite for Newspaper Production or Yearbook Production.
# English Language Arts High School Course Offering Grid

<table>
<thead>
<tr>
<th>9&lt;sup&gt;TH&lt;/sup&gt; GRADE</th>
<th>10&lt;sup&gt;TH&lt;/sup&gt; GRADE</th>
<th>11&lt;sup&gt;TH&lt;/sup&gt; GRADE</th>
<th>12&lt;sup&gt;TH&lt;/sup&gt; GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Students may choose one of the following English Language Arts classes for one credit)</td>
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<td>(Students may choose one of the following courses OR two of the following English Language Arts Elective courses for one credit)</td>
</tr>
<tr>
<td>English I</td>
<td>English II</td>
<td>English III</td>
<td>Senior Literature and Composition</td>
</tr>
<tr>
<td>English I Pre AP</td>
<td>English II Pre AP</td>
<td>AP Language and Composition</td>
<td>AP Literature and Composition</td>
</tr>
</tbody>
</table>

## English Language Arts Elective Courses
(Students may choose to take one of the following for English Language Arts credit. The student MUST be concurrently enrolled in English I to receive English Language Arts credit. Each course listed may only be taken once throughout a student’s high school career)

- Journalism
- Broadcast Journalism
- Speech I
- Speech II

## English Language Arts Elective Courses
(Students may choose to take one of the following for English Language Arts credit. The student MUST be concurrently enrolled in English II to receive English Language Arts credit. Each course listed may only be taken once throughout a student’s high school career)

- Journalism
- Broadcast Journalism
- Speech I
- Speech II
- Debate

## English Language Arts Elective Courses
(Students may choose to take one of the following for English Language Arts credit. The student MUST be concurrently enrolled in English III to receive English Language Arts credit. Each course listed may only be taken once throughout a student’s high school career)

- Journalism
- Broadcast Journalism
- Creative Writing
- The Novel
- Sports Literature and Composition
- Mythology
- Speech I
- Speech II
- Debate

## English Language Arts Special Elective Courses
(Students may choose to take any of these courses but they will not count toward the required English Language Arts credits they will be a Practical Art Credit or an Elective Credit)

- Digital Photojournalism
- Yearbook<sup>^</sup>
- Newspaper<sup>^</sup>

## English Language Arts Special Elective Courses
(Students may choose to take any of these courses but they will not count toward the required English Language Arts credits they will be a Practical Art Credit or an Elective Credit)

- Digital Photojournalism
- Yearbook<sup>^</sup>
- Newspaper<sup>^</sup>

## English Language Arts Special Elective Courses
(Students may choose to take any of these courses but they will not count toward the required English Language Arts credits they will be a Practical Art Credit or an Elective Credit)

- Digital Photojournalism
- Yearbook<sup>^</sup>
- Newspaper<sup>^</sup>

<sup>* This course may only be taken upon instructor approval.</sup>  <sup>^ These courses may be taken in multiple years with instructor approval.</sup>
ENGLISH FOR SPEAKERS OF OTHER LANGUAGES
Program offered only at Francis Howell North High School

2622851 Semester 1  ESOL READING I  1 Unit
2622852 Semester 2  Prerequisite: ESOL Teacher Recommendation

This course will help beginning English Learners increase the essential reading and writing skills needed to complete high school class curricula. Reading strategies, comprehension skills, vocabulary improvement, information processing, and writing are stressed every day. Instruction is individualized or in small groups.

2622901 Semester 1  ESOL READING II  1 Unit
2622902 Semester 2  Prerequisite: ESOL Teacher Recommendation

This course will help English Learners improve the reading and writing skills needed in core content area classes. This course may be taken in conjunction with ESOL supported content area classes that need additional reading skills for content mastery. Instruction is individualized or in small groups.

2622953  ESOL STUDIES  .5 Units
Prerequisite: ESOL Teacher Recommendation (May be repeated)

This course is designed to help English Learners improve the study and communication skills necessary to complete required courses and prepare for college or employment. Instruction is individualized or in small groups and supports academic subjects that require homework completion. Instruction will include, but is not limited to, grammar practice, academic vocabulary, test taking strategies, class organizational skills, and classroom success strategies (note taking and summarization).

ESOL Supported Classes in English Language Arts, Math, 1 Unit
Social Studies, Health, and Science
Prerequisite: ESOL Teacher Recommendation
Course # same as mainstream class

ESOL support is offered in selected areas of English Language Arts, Math, Social Studies, Science and Ninth Grade Health. The purpose of this model is to assist the English Learners within the selected mainstreamed classes master the curriculum required for graduation.

FAMILY AND CONSUMER SCIENCES

0908953  PATHWAYS TO TEACHING CAREERS  .5 Units
Prerequisites: Grades 11-12
Child Development I and/or Human Relations recommended
Honors Point and Dual Credit available

Teaching is projected to be one of the fastest-growing occupations over the next several years and beyond. This course focuses on the general theory and practice of learning and teaching; the basic principles of educational psychology; the art of teaching; the planning and administration of educational activities; school safety and health issues; and the history of education. Students will need to complete a course application from the Guidance Department prior to course enrollment. Qualifies for a conditional Honors point when students earn a B or better in the course for the semester and complete a variety of portfolio artifacts.
PATHWAY TO TEACHING CAREERS INTERNSHIP 1 Unit
Prerequisite: Pathway to Teaching Careers
Prerequisite: Grades 11-12
Honors Point and Dual Credit

Pathway to Teaching Careers Internship will provide students the opportunity to accelerate the knowledge and skills learned in Pathway to Teaching Careers coursework. The unpaid internship is an immersion experience that will partner students with cooperating teachers in Francis Howell early childhood, elementary, middle, or high schools. Students will also complete classroom coursework with the supervising teacher. Students will need to complete a course application from the Guidance Department prior to course enrollment. **This course is intended to be a two-block course (two-hour course) 2nd semester.** Qualifies for a conditional Honors point when students earn a B or better in the course for the semester, participate in a minimum of 110 field hours, complete a variety of portfolio artifacts and pass the Industry Recognized Credential Assessment.

CHILD DEVELOPMENT I .5 Units
Prerequisite: None

Child Development I will provide students with the valuable knowledge and skills to prepare them for future parenting roles and child-related careers. Throughout the semester students will explore the various aspects of human development beginning with prenatal development and finishing with the third year of life. In addition, students will study the topics of childcare, parenting roles and styles, health and safety concerns and guidance techniques of children from infancy through the third year of life. Students will have the opportunity to participate in a parenting simulation using an advanced infant simulator. This project helps students understand the implications of parenting in a modern society. An alternative project is available. Students interested in the human or health service career pathways are encouraged to enroll in this class. This would include, but not limited to, future teachers, early childhood professionals, social workers, and medical professionals.

CHILD DEVELOPMENT II .5 Units
Prerequisite: Child Development I

Child Development II starts where Child Development I finishes. Throughout the semester students will explore aspects of human development between ages two and five. Topics will include child development theories, parenting roles, child safety, and childcare options. Students will gain the vital skills for stimulating, teaching, interacting with, and caring for children. Students will be responsible for creating and implementing activities which facilitate learning and development of the pre-school aged child. **NOTE: Student with a “B” average in Child Development I and Child Development II may receive college credit at St. Charles Community College through articulation into the Early Childhood Program.**

HUMAN RELATIONS .5 Units
Prerequisite: Grades 10-12

The Human Relations course will prepare students for future adult roles as well as provide them with information they can apply to their current stage in life. Topics of discussion and research will include effective communication and decision making skills, how to develop and maintain interpersonal relationships, human sexuality, conflict resolution techniques, strategies to balance the multiple roles and responsibilities in everyday life, how to create and maintain stable families, and effective parenting skills. Students will complete several independent and group projects throughout the semester. The information acquired in this class can enhance present and future personal relationships.

FASHION CONSTRUCTION I .5 Units
Prerequisite: None

Have you ever wanted to make your own clothing or accessories? Fashion Construction I introduces you to the world of fashion through sewing construction. Studies will include a variety of equipment, the sewing machines, fabric & pattern selection, and construction techniques. By the end of the semester you will have created multiple items for yourself or for gifts! You will supply materials for required projects.
**FASHION CONSTRUCTION II**  
0.5 Units  
Prerequisite: Fashion Construction I with "C" average recommended

Fashion Construction II provides you with strategies that build on construction skills learned in Fashion Construction I. You will construct several projects using a variety of fabrics, patterns, advanced techniques, and technology. You will supply materials for several required projects.

**ADVANCED FASHION CONSTRUCTION**  
0.5 Units  
(previously ADVANCED CLOTHING)  
Prerequisite: Fashion Construction II with teacher approval

Students will work with the teacher to develop an individualized plan of appropriate projects using a variety of specialty patterns, fabrics, and advanced technology. Students will explore the areas of entrepreneurship and career options. Students will supply materials for projects. This course may be repeated for further credit.

**FASHION**  
0.5 Units  
Prerequisite: Grades 10-12

Are you interested in the world of fashion? Throughout the semester in Fashion, students will learn the dynamics of the fashion industry including: a study of designers and historical clothing, design and apparel production, textiles, careers, and merchandising trends. Students will complete individual projects related to fashion design, merchandising, and marketing.

**FOODS AND NUTRITION I**  
0.5 Units  
Prerequisite: None

Foods and Nutrition I will evaluate individual eating habits and learn how to safely prepare nutritious foods. The primary focus will be preparation and storage of food items, safety and sanitation, equipment and measuring, and nutrition and food labels. Students will have lab experiences preparing fruits, vegetables, eggs, grains, quick breads, dairy products, casseroles, cookies, and ground meat/poultry.

**FOODS AND NUTRITION II**  
0.5 Units  
Prerequisite: Foods and Nutrition I

Students in Foods and Nutrition II will evaluate their own eating habits as well as the eating habits of others. Labs in Foods and Nutrition II will build upon the prior knowledge and skills acquired in Foods and Nutrition I class. These lab experiences will include preparation of yeast breads, sauces, soups, salads, appetizers, cakes and pastries, meat, seafood, poultry, candy, and special diets. Additionally, students will analyze if a career related to foods and nutrition would be a possible career path.

**INTERNATIONAL CUISINE**  
0.5 Units  
Prerequisite: Foods and Nutrition I

Learn history and culture the fun way—through preparing the native foods of the world. International Cuisine builds and expands the knowledge and skills learned in Foods and Nutrition I. Students will develop an understanding of foods, traditions, and customs of other cultures and their own culture through projects and preparation of a variety of regional and cultural foods. Students will prepare foods from Latin America, South America, regions of the United States, various countries of Europe and the Mediterranean, Africa, Asia and the Middle East. Increase your culinary skills and try new and exciting foods from around the globe.
0908551 Semester 1 CULINARY ARTS 1 Unit
0908552 Semester 2 Prerequisite: Foods and Nutrition I and II

Food prepared in this course will be from the perspective of a chef using professional techniques in the industry. The frequency and rigor of the lab experiences will be greatly increased. Culinary Arts is designed for students who wish to explore the areas of hospitality, culinary arts and food service management. Students will have ample opportunity to expand and practice food preparation techniques, knife skills, and acquire an extensive culinary vocabulary. This course is an introduction to all areas related to the hospitality & food service industry. Instructional areas include nutrition, safety and sanitation in the professional kitchen, purchasing and cost control, sales and service, job seeking skills, and food preparation and presentation. Students completing this course have the opportunity to receive a certificate from the Missouri Restaurant Association that can be used to jumpstart a career in the field of culinary arts.

0908601 Semester 1 CULINARY ARTS WORK EXPERIENCE 1-2 Units
0908602 Semester 2 Prerequisite: Grade 12; concurrent enrollment in Culinary Arts

Students receive on-the-job training in hospitality, food production or a food service related area of their choice. Jobs in these areas provide educational opportunities beyond the school environment by working on an approved job site during the afternoon or evening. One unit of credit is earned for working 10-19 hours each week. Two units of credit are earned for 20 or more hours worked each week. The amount of credit may be different each semester. This instructional program is planned, supervised, and evaluated by both the teacher-coordinator and employer. Students who use this opportunity to complete the work experience component of the Culinary Arts program will also receive a certificate qualifying them for college credit at various post-secondary culinary programs across the state of Missouri.

0908503 HOUSING AND INTERIOR DESIGN .5 Units
Prerequisite: None

This project-oriented course is designed to teach the basics of interior design, aesthetics of architectural and furniture styles, analysis of housing selection and floor plans, home furnishings and furniture arrangement, and the application of the elements and principles of design. The information learned in this class can be used for personal enhancement of present and future living environments. Housing and Interior Design students will learn to make responsible decisions to select, create, and maintain desirable living environments. Students will also be introduced to career pathways in interior design and related fields such as drafting and architectural design.

0908903 FACS SENIOR LEADERSHIP .5 Units
Prerequisite: Grade 12

Senior students acquire skills necessary for independent living after high school and a successful balance of career and family life. Topics will include: career planning and financial responsibility; interpersonal relationships; nutrition and wellness; meal preparation; clothing management and the student's future family and community involvement. Activities will focus on solving practical problems through various food labs, financial simulations, and use of available technology. Students will supply materials for required projects.
Want to leave your mark in the 21st Century? Want to learn how to express yourself through art? Introduction to Art is a yearlong beginning course for all students that will inspire and empower you as a young artist. In this course, you will explore and experiment with multiple art forms using materials such as clay, paint, digital software and other media. You will take a leading role in your learning as you read visual texts, create artwork, connect to the world around you, respond to works of art, and present your creations. Growth will be measured through active participation, studio work, and portfolio production.

Ceramics I is an introductory three-dimensional studio course based entirely in the medium of clay. Students will create art through the study of traditional and contemporary ceramic methods, tools, and techniques. Students will go from a big idea, to exploring processes, to developing a final product. Students will understand how to make connections to the world, respond to works in clay, and present creations to an audience. Students will have a lead role in their learning through creative endeavors, self-expression, self-reflection, and risk taking. Students will develop and use ceramic hand-building methods, decorative surface techniques, and glazing and firing skills, creating original functional and fine art pieces. Students will analyze and critique artworks, discuss aesthetic issues, and understand how ceramic objects have been used in history across many cultures. Growth will be measured through active participation, studio work, and portfolio production.

Ceramics II is an upper level studio course that will build upon and extend skills developed in Ceramics I. Students will create original functional and fine art pieces that will challenge their creativity. Students may develop hand-built, wheel-thrown and decorative surface techniques. Students will expand their knowledge of contemporary issues and techniques, taking the next step to break from traditional ceramic techniques by exploring more personally meaningful themes, ideas, and concepts. Students will analyze and critique artworks, discuss aesthetic issues, and understand how ceramic objects have been used in history across many cultures. Growth will be measured through active participation, studio work, and portfolio production.

Drawing I is an introductory studio course that develops technical skills in the use of different drawing media. Students will create original two-dimensional artworks based on drawing from observation, perspective, and personal communication of an idea. Students will analyze and critique artworks, discuss aesthetic issues, and understand how artworks have been used in history across many cultures. Evaluation will be based on active class participation, written work, tests, and studio work with an emphasis on student artwork.
DRAWING II  .5 Units
Prerequisite: A passing grade in Introduction to Art and Drawing I
Note: A grade of C or better in Drawing I is recommended.

Drawing II is an upper level studio course that will build upon and extend skills developed in Drawing I. Students will experience a variety of media and subject matter in creating two-dimensional artworks. Students will be expected to apply drawing skills to achieve desired effects in chosen thematic and observational works. Students will analyze and critique artworks, discuss aesthetic issues, and understand how artworks have been used in history across many cultures. Evaluation will be based on active class participation, written work, tests, and studio work with an emphasis on student artwork.

DIGITAL ART & DESIGN I  .5 Units
Prerequisite: A passing grade in Introduction to Art
Advanced Credit Program Possible

Digital Art & Design will teach you how to communicate ideas and stories through different media including digital photography, video, print and motion graphics. This course is designed to help you develop your own eye for design, and translate that knowledge into a possible career creating these powerful images. All these skills will be put to use in a variety of class projects, where you will learn to apply different theories to real design work. Your instructors will work with you to develop your personal style and create both physical and web based portfolios that will allow others to see your range of skills as a designer.

Digital Art & Design students will explore the many uses of digital photography, computer art and animation in professional and artistic pursuits. Students will learn computer illustration techniques, image manipulation and digital camera/electronic device use. New Media Art will be a main focus which includes current digital electronic media such as gifs, web animation and social media art/apps.

DIGITAL ART & DESIGN II  .5 Units
Prerequisite: A passing grade in Introduction to Art and Digital Art & Design I
Note: A grade of C or better in Digital Art & Design I is recommended.
Advanced Credit Program Possible

Digital Art & Design II students will continue to explore communicating through digital media to create works of art including digital photography, video, print, motion graphics as well as artistic filmmaking which may include 2D and 3D stop-motion, rotoscoping, or music video production. You will participate in select projects with upper level design teams, build digital design portfolios, and present your work in digital media exhibitions.

PAINTING I  .5 Units
Prerequisite: A passing grade in Introduction to Art

Painting I is an introductory studio course that develops technical skills in the use of different painting media. Students will learn to express themselves through color theory and use a variety of painting techniques to create two-dimensional works. Work will focus on observational skills and be inspired by different historical periods. Students will analyze and critique artworks, discuss aesthetic issues, and understand how artworks have been used in history across many cultures. Evaluation will be based on active class participation, written work, tests, and studio work with an emphasis on student artwork.

PAINTING II  .5 Units
Prerequisite: A passing grade in Introduction to Art and Painting I
Note: A grade of C or better in Painting I is recommended.

Painting II is an upper level studio course that builds upon experiences from Painting I that will enable students to paint compositions with a variety of media. Students will begin to develop their own personal painting style. Students will analyze and critique artworks, discuss aesthetic issues, and understand how artworks have been used in history across many cultures. Evaluation will be based on active class participation, written work, tests, and studio work with an emphasis on student artwork.
PRINTMAKING I .5 Units
Prerequisite: A passing grade in Introduction to Art

Printmaking I is an introductory studio course that develops technical skills in the use of different printmaking media and procedures. Students will explore monoprinting, relief, intaglio, and screen printing methods to produce prints on a variety of surfaces. Students will be expected to construct original and creative compositions utilizing drawing skills and design principles. Students will analyze and critique artworks, discuss aesthetic issues, and understand how artworks have been used in history across many cultures. Evaluation will be based on active class participation, written work, tests, critiques and studio work with an emphasis on student artwork.

PRINTMAKING II .5 Units
Prerequisite: A passing grade in Introduction to Art and Printmaking I
Note: A grade of C or better in Printmaking I is recommended.
Advanced Credit Program Possible

Printmaking II is an upper level studio course that builds upon skills from Printmaking I. Students will use different printmaking processes such as monoprinting, relief, intaglio, lithography and/or screen printing to create art works with various subjects. Students will create original and creative large scale compositions. They are expected to develop a body of work that is inventive and one that expresses a conceptual use of the printed image. Students will analyze and critique artworks, discuss aesthetic issues, relate prints to current trends in the field of printmaking, and understand how prints have been used in history across many cultures. Evaluation will be based on active class participation, written work, tests, critiques and studio work with an emphasis on student artwork.

SCULPTURE I .5 Units
Prerequisite: A passing grade in Introduction to Art

Sculpture I is an introductory studio course that develops technical skills in the use of different sculpture media such as plaster, clay, paper, wire, or found objects. Students will create original, three-dimensional artworks using modeling, carving, and assemblage. Students will explore historical influences on the evolution of sculpture. Students will analyze and critique artwork construction and discuss aesthetic issues. Evaluation will be based on active class participation, written work, tests, and studio work with an emphasis on student artwork.

SCULPTURE II .5 Units
Prerequisite: A passing grade in Introduction to Art and Sculpture I
Note: A grade of C or better in Sculpture I is recommended.

Sculpture II is an upper level studio course that builds upon skills from Sculpture I while allowing students to experience new sculptural techniques and media. Students will create three-dimensional art forms that express personal styles and/or themes. Students will explore historical influences on the evolution of sculpture. Students will analyze and critique artwork construction and discuss aesthetic issues. Evaluation will be based on active class participation, written work, tests, and studio work with an emphasis on student artwork.

AP ART HISTORY 1 Unit
Prerequisite: Grades 10-12
This course satisfies the fine arts requirement for graduation.
Advanced Credit Program Possible.
Note: GPA 2.0+ recommended. Does not require Introduction to Art

Advanced Placement Art History is designed to give students the opportunity to discover, appreciate, and acquire knowledge of art history through the ages, from prehistory to contemporary times. This course enables highly motivated students to study college level art history by examining major forms of artistic expression from diverse cultures and understanding each of their contributions to the arts as a whole. Students are provided opportunities to critically analyze works of art in a variety of environments including actual and virtual. A variety of art media and styles will be studied as students look at architecture, manuscripts, painting, drawing, printmaking and sculpture, as a reflection of a given civilization and time period. Students will investigate how various art pieces connect to historical
events, how artistic movements influence each other, what is aesthetically pleasing to the eye, and their contexts within social, political and religious themes. This class will give students the opportunity to use their prior knowledge of history, geography, politics, religion, languages, literature, and the visual arts. This course will prepare students to take the AP Art History exam. This course satisfies the fine arts requirement for graduation. Evaluation will be based on written work, research, class participation and tests.

0202801 Semester 1  AP STUDIO ART  1 Unit  Grades 11 – 12
0202802 Semester 2

• Passing grade of C or better in Introduction to Art
• Passing grade of C or better in Drawing I & II
• Enrollment must be approved by AP Studio Art Teacher
• Additional Studio Courses strongly recommended

Note: Student must fulfill requirements to be approved by Art Department

The AP Studio Art course is designed for the serious art student who is interested in intensive art production for the purpose of compiling an art portfolio in preparation for future art studies or college entrance. The portfolio may be used to present during portfolio reviews for admission and scholarship opportunities or to obtain AP credit.

The AP program in Studio Art enables highly motivated students to perform at the college level while still in high school. Students will be challenged to refine their artistic skills and develop mastery of composition. Emphasis will be placed on the production of a volume of quality pieces of artwork. AP Studio Art students will submit completed portfolios at the end of the year with the opportunity to apply for AP credit.

The AP Studio Art Portfolio exam is a performance-based exam rather than a written exam and will require students to demonstrate quality, breadth, and an in-depth engagement in the process of making art. The AP Studio Art student will record portfolio work through a digital slide portfolio that will be submitted for AP review. Students will also be required to write short reflective statements to explain the thought process behind the artwork.

AP Studio Art requires a significant commitment of time and effort, both during class time and outside of the school day. Students interested in this course should be highly motivated and be willing to devote considerable time and effort to the study of art and the development of higher-level skills. Students will be placed in AP Studio Art I or II based on previous studio course experience and performance, personal goals, teacher recommendations, and portfolio review.

**MUSIC**

1211001 Semester 1  CHORUS  1 Unit  Prerequisite: None
1211002 Semester 2

Chorus is an elective introductory performing class which is available to all students regardless of prior experience. Fundamental vocal techniques, music reading, unison, and part singing are emphasized by group rehearsal and written assignments. A variety of music styles are rehearsed. Students will be evaluated on singing ability, active class participation, written work, tests and performances. Students will work together in a collaborative, positive and supportive environment that emphasizes the importance of teamwork. Vocal grouping will be determined each year by the director according to class enrollment.
Treble Choir is an elective, performing choral ensemble. Students are auditioned for membership or may be placed by recommendation of a former director. Members are expected to demonstrate both group and individual progress in tone production, music reading, and vocal independence. The class will have several performances which may involve school concerts, competitions, and/or festivals. Music selections represent a wide variety of styles and periods, mostly voiced in three parts. Music will include pieces which are a cappella and/or in a foreign language and selections comparable to state required listings. Students will be evaluated on singing ability, active class participation, written work, tests, and performances. Students will work together in a collaborative, positive and supportive environment that emphasizes the importance of teamwork. Students will need to complete additional requirements for honors credit.

Concert Choir is the primary choral group, participating in four to six major performances each year. Students are auditioned and teacher’s approval is required. Class enrollment must maintain proper vocal balance. Concert Choir performs music in standard parts which represent a variety of periods and styles. Selections will include some which are a cappella and in a foreign language and music comparable to state required listings. Students will further develop their abilities in tone production, independence of voice parts, and appropriate interpretation. As a part of public performances, Concert Choir participates in a festival and/or enters state choral contest. Student grades will be based on singing ability, active class participation, written work, tests, and performances. Students will work together in a collaborative, positive and supportive environment that emphasizes the importance of teamwork. Vocal grouping will be determined each year by the director according to class enrollment. Students will need to complete additional requirements for honors credit.

This select ensemble is chosen from students who are accepted based on an audition. Balanced voice parts must be maintained. Chamber Choir performs music in standard parts which represent a variety of periods and styles. Selections will include some which are a cappella and in a foreign language and music comparable to state required listings. This group performs challenging chamber ensemble repertoire for six to eight performance and contest related activities during the year. Additionally, the students are required to meet outside the normal class time to rehearse at the director’s discretion. Grades will be based on singing ability, active class participation, written work, tests, and performances. Students will work together in a collaborative, positive and supportive environment that emphasizes the importance of teamwork. Vocal grouping will be determined each year by the director according to class enrollment. Students will need to complete additional requirements for honors credit.

This class surveys historical and current musical styles by studying the role of music in society, the influential composers who have shaped music throughout the world, the development of musical forms and how music is integrated into our daily lives. Students will also apply their knowledge of music notation, score reading and performance by learning the fundamentals of playing an instrument such as guitar. Evaluation will be based on written assignments and tests, class participation, playing tests and assessment of listening skills which will be enhanced through guided group listening. This course satisfies the Fine Arts requirement for graduation.
Music Theory is a course that emphasizes the rules and practices of music theory, composition, ear training, sight singing and music analysis. While the main focus is placed on music of the Common Practice Period (1600-1750), music of other stylistic periods will also be studied. Music Theory highlights rhythmic and pitch notation, relation of staff notation to the keyboard, construction and analysis of chords and chord progressions, four-part writing, recognition of musical forms, sight singing, dictation, and aural training. Students will be evaluated on homework, tests, aural and reading skills.

Music Theory requires effort on the part of the student both in and out of class. Students should be self-motivated and willing to dedicate the focus necessary for personal advancement. This course will prepare students to take the AP Music Theory exam.

Concert Band is designed to teach teamwork, self-discipline, and develop higher level thinking skills necessary to express one's self through music. Instruction will build on the student's fundamental playing skills to develop intermediate to advanced skills. This course better prepares students for participation in Symphonic Band/Wind Ensemble.

Students will perform in a minimum of two concerts a year. Students have the opportunity to participate in extracurricular performing ensembles such as district honor band, district solo and ensemble festival, pep band, pit orchestra, etc.

This course is an extension of the concepts developed in middle school band. Previous participation in middle school band is strongly encouraged.

Symphonic Band is designed to teach teamwork, self-discipline, and develop higher level thinking skills necessary to express one's self through music. Instruction will build upon the student's advanced playing skills to further develop and progress towards consummate musicianship. This course is designed to prepare students for further collegiate study and careers in music and a wide variety of performance opportunities. Students will perform in a minimum of two concerts a year. Students have the opportunity to participate in extracurricular performing ensembles such as district honor band, district solo and ensemble festival, pep band, pit orchestra, etc.

This course is an extension of the concepts developed in Concert Band. Previous participation in Concert Band is strongly recommended.

Wind Ensemble is designed to teach teamwork, self-discipline, and develop higher level thinking skills necessary to express one's self through music. Instruction will build upon the student's advanced playing skills to further develop and progress towards consummate musicianship. This course is designed to prepare students for further collegiate study and careers in music and a wide variety of performance opportunities. Students will perform in a minimum of two concerts a year. Students have the opportunity to participate in extracurricular performing ensembles such as district honor band, district solo and ensemble festival, pep band, pit orchestra, etc.
1211401 Semester 1  JAZZ ENSEMBLE  1 Unit
1211402 Semester 2  (Honors available Course # Sem 1: 1211411, Sem 2: 1211412)
Prerequisite: Concert Band and/or by audition; for honors: grade 10-12; conference with Music Director

This auditioned ensemble performs standard and contemporary jazz literature and exposes students to improvisation. Students enrolled are expected to participate in concert band with the exception of instruments such as guitar and keyboard. Class size will be limited to balance the instrumentation required for jazz arrangements. Jazz Ensemble will present at least two public performances a year. The Jazz Ensemble may also enter competitions, play for school and/or district activities, and perform at community functions including the all Howell Jazz Night in February. Students also have the opportunity to participate in extracurricular performing ensembles such as district honor band, district solo and ensemble festival, pep band, pit orchestra, etc. Students will need to complete additional requirements for honors credit.

Standard Instrumentation includes; 2 alto saxophones, 2 tenor saxophones, 1 baritone saxophone, 4-5 trumpets, 4 trombones, guitar, bass, drums and piano, and occasionally a vibe player.

1211451 Semester 1  PERCUSSION CLASS  1 Unit
1211452 Semester 2  Prerequisite: Proficiency on instrument and teacher recommendation

This class is available for all types of percussionists: mallet, cymbals, tympani, snare and bass drum. The group will rehearse music arranged specifically for percussion, perform for the public with concert groups and may enter solo and ensemble competition. Students should be able to demonstrate proficiency on percussion instruments to earn teacher approval to enroll. The percussionists will be divided into two groups creating the Basketball Pep Band and each band will perform at half of the games.

THEATRE

0505623  ACTOR’S STUDIO: IMPROVISATION AND SKETCH COMEDY  .5 Units
Prerequisite: None

This is a great class for students wanting to get involved in or learn more about drama and acting. Students will study the fundamentals of improvisation through exercises that help to develop strong ensemble and character work as well as a respect for other performers and their creativity. Students will be introduced to acting through physical and vocal exercises. Students will explore character development through improvisation, monologues and duet scenes. Students will be able to create characters, relationships scenes and performance pieces based on the truth of the moment by following the CORE model - Character, Objective, Relationship, and Environment. The course emphasis is on activities that require the students to actively apply good acting techniques. This course is designed to develop actors’ self-awareness and self-confidence as they develop their performances. Students will develop a program through improvisation and fine tune their ideas through a revision process as they create the scripts needed to perform a sketch comedy show. All improvisations, monologues and scenes are presented in class.

0505663  ACTOR’S STUDIO II  .5 Units
Prerequisite: Actor’s Studio: Improvisation and Sketch Comedy

Students will further develop their knowledge of basic dramatic scene structure and characterization by exploring improvisations, monologues, duet scenes, accents and dialects, and ensemble performances. Some of the major units include advanced scene study, advanced character study and script analysis, student written scenes, and directing. There will be reflection of acting for the theatre and for film. Students will be introduced to different styles of theatre (absurd and experimental) and how they impact theatre currently. Students will focus on specific acting techniques and individual growth through self-reflection and goal setting. They will explore different careers within the acting community. All improvisations, monologues and scenes are presented in class.
0505813 TECHNICAL THEATRE I .5 Units
Prerequisite: None

This is an excellent course for students to earn their fine art credit in a hands-on and fun environment. Students will study the skills associated with set construction, scene shop maintenance, and painting-through hands on activities in class. The basics of technical rigging, stage lighting and sound are also introduced. Students will be required to participate in safety training for all areas of technical theatre. Students will also learn the basics of make-up application and costume development. This is a hands-on course and students will participate in practical applications of the methods used in all of these technical areas.

0505713 TECHNICAL THEATRE II .5 Units
Prerequisite: Technical Theatre I

Students will study the skills associated with design in technical theatre. Students will learn set design, lighting design, audio design, and costume / make-up design and implement their designs through building of mini-models and hands on application techniques. Students will study several plays as context for their designs and will create designs in all of these technical areas for at least one play. Students will also produce a technical theatre portfolio as part of this course. This is an excellent course for students who want more hands-on learning activities or advanced designing experience.

0505703 FROM BROADWAY TO HOLLYWOOD .5 Units
Prerequisite: None

This class concentrates upon the drama student’s interest in production styles, comparing live theatre to cinema. Students will study Broadway performers and screen legends, paying particular attention to the craft of each style. Students will review and analyze various film genres and styles in comparison to performance on stage. Students will be required to attend one professional/semi-professional production; see one art/indie film with the class; and produce a short multimedia piece.

0505763 INTENSIFIED THEATRE .5 Units
Prerequisite: Actor’s Studio I and II or Technical Theatre I and II; teacher approval

This course is designed to be an advanced independent study of theatrical concepts. Each student will declare an individual focus area and learning goals within that focus area. Based on their goals, and with guidance from the teacher, students will design their course of study for their focus area. Focus areas include: Playwriting, Stage Management, Directing, Theatre History, Advanced Acting, and Production Design. Students will research advanced concepts within their focus area. Students will present a portfolio for assessment.

INDUSTRIAL TECHNOLOGY

1009101 Semester 1 RESIDENTIAL ARCHITECTURE 1 Unit
1009102 Semester 2 Prerequisite: None

Residential Architecture provides the student with a unique opportunity to learn how to develop house plans used in architecture. Students will primarily utilize current CAD software in creation of drawings but will also learn manual drafting techniques as well. Some of the areas covered include: building and site selection, interior and exterior styling, individual room planning, and fundamental construction methods. This course is beneficial to students interested in Architecture, civil engineering, interior design, construction trades, or homeownership. Qualifies for articulated Associate of Applied Science (A.A.S.) credit at St. Charles Community College (not A.A. transfer credit).
1009001 Semester 1  COMPUTER AIDED DRAFTING I (CAD)  1 Unit
1009002 Semester 2  Prerequisite: None

CAD I is a beginning course which provides students with an opportunity to develop skills in creating technical drawings that are commonly used in engineering and other technical fields. Students begin with the basics of equipment and material usage and proceed through fundamental drawing techniques and procedures. Students will primarily utilize current CAD software in creation of drawings but will also learn manual drafting techniques as well. This course is especially beneficial to students interested in enrolling in the Project Lead the Way Engineering courses, or careers in designing, engineering, drafting, commercial art, graphic arts, production, and construction careers. Qualifies for articulated Associate of Applied Science (A.A.S.) credit at St. Charles Community College (not A.A. transfer credit).

1009051 Semester 1  COMPUTER AIDED DRAFTING II (CAD)  1 Unit
1009052 Semester 2  Prerequisite: Successful completion of CAD I or Introduction to Engineering Design with a grade of "C" or better recommended

CAD II combines a continuation of the fundamental concepts developed in CAD I with additional concentrated areas of engineering drawing, reverse engineering, and 3D design projects. Students will utilize the same CAD software used in CAD I along with 3D virtual reality CAD software throughout this course. Provisions are made for individual specialization in selected areas as time permits. This course is especially beneficial to those students interested in engineering, designing, drafting, and computer drawing.

1009151 Semester 1  WOODWORKING I  1 Unit
1009152 Semester 2  Prerequisite: None

Woodworking I will provide students with the opportunity to use hand tools, power tools and machines to create various wood working projects. Students will learn how to safely operate machines such as table saws, routers, planers, drill presses and radial arm saws. During the process of building projects students will learn about project planning, properties of wood, wood joints, fasteners, and wood finishes. In this course, students will be able to apply mathematical and problem solving skills, while working hands-on in a non-traditional classroom setting. Students interested in building trades, wood products industries, and furniture construction careers or becoming a do-it-yourself homeowner will enjoy the high school wood working courses. Woodworking I is an introductory course, no prior knowledge of woodworking is necessary. This course fulfills one credit in the practical arts category.

1009201 Semester 1  WOODWORKING II  1 Unit
1009202 Semester 2  Prerequisite: Successful completion of Woodworking I with a grade of "C" or better required

Woodworking II is an advanced wood working course designed to provide the student with a unique opportunity to further their wood working skills learned in Woodworking I. Students will continue to apply mathematical and problem solving skills to create more complex and challenging projects, furniture design, and furniture construction as they build an individualized project. While building projects, students will further their development of skills and knowledge in machine operations, wood fastening, assembly, and finishing procedures. This course is beneficial to students interested in furthering their wood working skills, furniture and cabinet making, design, engineering, construction, and production careers.
1110181 Semester 1  ALGEBRA IA – NCAA-approved 1 Unit
1110182 Semester 2  Prerequisite: Refer to Algebra I

This course is equivalent to the first semester of Algebra I. Algebra I aims to deepen and extend student understanding built in previous courses by focusing on developing fluency with solving linear equations, inequalities, and systems. These skills are extended to solving quadratic equations, exploring linear, quadratic, and exponential functions graphically, numerically, symbolically, and as sequences, and by using regression techniques to analyze the fit of models to distributions of data. Algebra I students will use problem-solving strategies, questioning, investigating, analyzing critically, gathering and constructing evidence, and communicating rigorous arguments justifying their thinking.

1110201 Semester 1  ALGEBRA IB – NCAA-approved 1 Unit
1110202 Semester 2  Prerequisite: Algebra IA

This course is equivalent to the second semester of Algebra I. Algebra I aims to deepen and extend student understanding built in previous courses by focusing on developing fluency with solving linear equations, inequalities, and systems. These skills are extended to solving quadratic equations, exploring linear, quadratic, and exponential functions graphically, numerically, symbolically, and as sequences, and by using regression techniques to analyze the fit of models to distributions of data. Algebra I students will use problem-solving strategies, questioning, investigating, analyzing critically, gathering and constructing evidence, and communicating rigorous arguments justifying their thinking.

1110251 Semester 1  ALGEBRA I – NCAA-approved 1 Unit
1110252 Semester 2  Prerequisite: 8th Grade Mathematics

Algebra I aims to deepen and extend student understanding built in previous courses by focusing on developing fluency with solving linear equations, inequalities, and systems. These skills are extended to solving quadratic equations, exploring linear, quadratic, and exponential functions graphically, numerically, symbolically, and as sequences, and by using regression techniques to analyze the fit of models to distributions of data. Algebra I students will use problem-solving strategies, questioning, investigating, analyzing critically, gathering and constructing evidence, and communicating rigorous arguments justifying their thinking.

1110301 Semester 1  GEOMETRY – NCAA-approved 1 Unit
1110302 Semester 2  Prerequisite: Algebra I or equivalent

This course develops understandings in mathematics through work focused on the concepts of congruence and similarity. Essential topics include proofs of geometric theorems, constructions, introduction to trigonometry, working with circles, and conditional probability. Application and modeling are emphasized.

1110351 Semester 1  GEOMETRY HONORS – NCAA-approved 1 Unit
1110352 Semester 2  Prerequisite: Algebra I, must meet 9th grade Honors criteria

Geometry aims to formalize and extend the geometry that students have learned in previous courses. It does this by focusing on establishing triangle congruence criteria using rigid motions and formal constructions and building a formal understanding of similarity based on dilations and proportional reasoning. It also helps students develop the concepts of formal proof, explore the properties of two- and three-dimensional objects, work within the rectangular coordinate system to verify geometric relationships and prove basic theorems about circles. Students also use the language of set theory to compute and interpret probabilities for compound events. Geometry students will use problem-solving strategies, questioning, investigating, analyzing critically, gathering and constructing evidence, and communicating rigorous arguments justifying their thinking.
### Intermediate Algebra

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
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<tbody>
<tr>
<td>1110651 S1</td>
<td>INTERMEDIATE ALGEBRA</td>
<td>1</td>
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<tr>
<td>1110652 S2</td>
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This course is designed to reinforce basic algebraic concepts and enhance the students’ understanding of mathematical applications. An introduction of Algebra 2 concepts will ready the student for Algebra 2 or for a post-secondary Intermediate Algebra course. Technology will be integrated throughout the course.

### Algebra II

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<th>Course Code</th>
<th>Course Name</th>
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<tr>
<td>1110401 S1</td>
<td>ALGEBRA II - NCAA-approved</td>
<td>1</td>
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<tr>
<td>1110402 S2</td>
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Algebra 2 is designed to improve students’ ability to think analytically using Algebraic reasoning. Students will develop problem solving, logical reasoning, and technological skills. Topics include but are not limited to modelling and solving quadratics, exponential, logarithmic, and trigonometric equations. Investigation of real-world applications will be incorporated throughout the course. This class is essential for students planning to attend college, and should better prepare students for the ACT. Students must have successfully completed Algebra 1 and Geometry before taking this course.

### Algebra II Honors

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
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<tbody>
<tr>
<td>1110451 S1</td>
<td>ALGEBRA II HONORS - NCAA-approved</td>
<td>1</td>
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<td>1110452 S2</td>
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Algebra 2 Honors is designed to apply and extend students’ understandings of functions. Students are expected to master the topics of Algebra 2 as listed under the Algebra 2 course description with more emphasis on the relationships between quadratic, polynomial, and rational functions, statistics as well as trigonometry.

### Algebra II

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<th>Course Code</th>
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<tr>
<td>1110431 S1</td>
<td>ALGEBRA III - NCAA-approved</td>
<td>1</td>
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<tr>
<td>1110432 S2</td>
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This course is designed to review and extend skills and concepts from Algebra 2. Some content included in future math courses (such as trigonometric functions and analytic geometry) is included, but at a less rigorous level.

### Math Analysis

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<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
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<tbody>
<tr>
<td>1110513</td>
<td>MATH ANALYSIS - NCAA-approved</td>
<td>.5</td>
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This course focuses on functional analysis through the integration of algebraic and geometric concepts and should help prepare students for the ACT.

### Statistics

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<tr>
<td>1110553</td>
<td>STATISTICS - NCAA-approved</td>
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This course is an introduction to elementary statistics including a wide variety of applications. It is appropriate for many disciplines such as: medicine, psychology, business, computer science, education, agriculture, and engineering. This course, paired with Math Analysis, will give students a good foundation for a College Algebra course and should help prepare students for the ACT.

### AP Statistics

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<th>Course Code</th>
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<tbody>
<tr>
<td>1110561 S1</td>
<td>AP STATISTICS - NCAA-approved</td>
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<td>1110562 S2</td>
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Students will study the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The four broad conceptual themes are: exploring data, planning study, anticipating patterns, and statistical inference. This is an Advanced Placement course that prepares the student to take the AP Statistics exam. Advanced credit, when available.
Pre Calculus is a year-long course with honors credit. This course combines the trigonometric, geometric, and algebraic techniques needed to prepare students for the study of calculus, and strengthens students’ conceptual understanding of problems and mathematical reasoning in solving problems. Facility with these topics is especially important for students intending to study calculus, physics, and other sciences, and/or engineering in college. If students do not plan on taking calculus, then they should not take this course. Instructional time will focus on four critical areas: (1) expand understanding of various function types and their graphs; (2) simplify and solve algebraic and trigonometric expressions, equations, and inequalities; (3) use and be able to identify characteristics of conics and their graphs; and (4) find limits of functions.

This course is a college-level course with many applications in engineering and the sciences. TI-84 or higher graphing calculator is required. Topics include: limits, derivatives and integration of a wide variety of functions, and applications of differentiation and integration. This is an Advanced Placement course that prepares the student to take the AP Calculus AB exam. Advanced credit, when available. Most universities consider this essentially equivalent to their one semester Calculus 1 course, though spread throughout two high school semesters.

This course is an extension of AP Calculus AB and addresses the same topics at an accelerated (NEARLY COLLEGE-PACED) rate along with additional topics such as indeterminate forms, advanced techniques of integration, and a detailed study of sequences and series. TI-84 or higher graphing calculator is required. This is an Advanced Placement course that prepares the student to take the AP Calculus BC exam. Advanced credit, when available. Most universities consider this essentially equivalent to Calculus 1 and Calculus 2.
Initial Class – Algebra IA

Algebra IA  →  Algebra IB  →  Intermediate Algebra  →  Statistics (*)
           ↑                                      ↓
           Geometry  →  Algebra II

Initial Class - Algebra 1

Algebra I  →  Intermediate Algebra  →  Statistics (*)  →  Math Analysis*
           ↑                                      ↓
           Geometry ORGeometry Honors  →  Algebra II OR Algebra II Honors  →  Statistics*
           ↓                                      ↓
           Pre Calculus Honors

Initial Class-Geometry or Honors Geometry

Geometry OR Geometry Honors  →  Statistics (*)  →  Math Analysis*
           ↑                                      ↓
           Algebra II  →  AP Statistics
           ↓                                      ↓
           AP Statistics Honors

(*) Semester Course

NOTE: Students must progress forward according to the arrows.
0807003  PERSONAL LIFETIME FITNESS (Grade 9 Physical Education)  .5 Units
(meets ½ the Physical Education requirement for graduation)
Prerequisite: Required for Grade 9

This course will provide the opportunity to develop and maintain fitness for a lifetime of wellness. Fitness concepts and components will be emphasized as the student participates in a wide variety of physical activities (fitness assessment and evaluation, individual sports, team sports, and other activities). This is a required class for graduation, and students may not enroll in elective P.E. classes without successful completion.

0807803  NINTH GRADE HEALTH  .5 Units
Prerequisite: Required for Grade 9

This course is designed to engage students in activities that foster the development of each individual's physical, mental, and emotional well-being leading to the adoption of effective health behaviors. A student-centered approach used in this course provides students the opportunity for accepting personal responsibility for a healthy, active lifestyle throughout their lifetime. This course fulfills the 0.5 Health requirement for graduation. NOTE: This course contains a unit on human sexuality. Missouri State statute (07.015) gives parents the right to remove their student from this portion of the course. Parents should contact the student's teacher if this option is chosen.

0807051 Semester 1  FITNESS FOR LIFE  .5 Units
0807052 Semester 2  
(Meets second ½ credit for physical education requirement for graduation)
Prerequisite: Pass Personal Lifetime Fitness, Grade 10-12

Fit for Life is designed to provide students with the knowledge and skills that are essential for creating a healthy lifestyle. In this class, students will participate in various low-impact resistance exercises designed to tone, stretch, strengthen, and sculpt muscles to improve body composition and fitness. Areas may include but are not limited to fitness testing, goal setting, circuit training, weight training, walking, jogging, yoga, interval training, stretching, various low-impact competitions, nutrition analysis and planning, and current event research. This class may be repeated for further credit.

0807161 Semester 1  TEAM SPORTS  .5 Units
0807162 Semester 2  
(meets second ½ credit for physical education requirement for graduation)
Prerequisite: Pass Personal Lifetime Fitness, Grade 10-12

This course will include a variety of team sport activities that may include team sports such as football, softball, soccer, and basketball. Instruction is aimed at developing fitness and sports skills, as well as an understanding of the rules of traditional and non-traditional team sports games. Injury prevention and sport-related careers will also be included in the instruction. Students will also examine coaching and team strategies, and officiating mechanics for each sport. Students will participate in a variety of sports and games, teach classmates rules and skills, and have the opportunity to officiate various sports and games. This course meets the second 1/2 physical education credit requirement for graduation. This class may be repeated for further credit.

0807211 Semester 1  NET SPORTS AND LIFETIME ACTIVITIES  .5 Units
0807212 Semester 2  
(meets second ½ credit for physical education requirement for graduation)
Prerequisite: Pass Personal Lifetime Fitness, Grade 10-12

Students will participate in a variety of lifetime activities which may include tennis, volleyball, badminton, softball, Frisbee activities, golf, pickleball, bowling, table tennis, recreational and outdoor recreational activities. Students will also learn about the health benefits gained from participating in these activities. Regular class activities include participating in lifetime activities and taking written assessments over the rules and terminology related to the
activities. This course meets the second 1/2 physical education credit requirement for graduation. This class may be repeated for further credit.

0807233 INTRODUCTION TO WEIGHT TRAINING .5 Units
(meets second ½ credit for physical education requirement for graduation)
Prerequisite: Pass Personal Lifetime Fitness, Grade 10-12

This course will provide an introduction to weight training with an emphasis on student participation. The student will be presented with the proper technique for a variety of weight training movements with an emphasis on learning proper movement rather than strength development. Grades will be determined through participation, written tests, and the completion of a workout journal/notebook.

0807241 Semester 1 ADVANCED WEIGHT TRAINING .5 Units
Prerequisite: Weight Training and Conditioning I (Introduction to Weight Training) with a grade of “C” or better or Department Chairperson approval. Grade 10-12

This course has three main objectives: development of an understanding of weight training physiology, development of the skills necessary to maximize performance of strength training techniques, and to continue progress toward an individual's strength and fitness goals. Students will learn to design and implement their own individual workout plan and track their progress by maintaining a workout journal or tracker. Grades will be determined through participation in class, written tests, and completion of the workout journal or tracker. This course meets the second 1/2 physical education credit requirement for graduation. This class may be repeated for further credit.

0807353 DRIVER'S EDUCATION/FIRST AID SAFETY .5 Units
This course cannot be used for a required physical education credit; elective credit only
Prerequisite: Must turn 15 prior to end of semester enrolled

This class provides familiarization with state driving laws, rules, and regulations by using the Missouri Driver's Guide. Students will learn basic defensive driver concepts, the responsibilities of being a vehicle owner/operator (including maintenance and insurance information), and safe versus unsafe driving conditions as well as the effects of alcohol/drugs on driving. Knowledge and practice of basic first aid procedures, including CPR, will be addressed through this course. Students have the option of participating for a fee in an instructional driving experience.

0807463 OUTDOOR EDUCATION: HUNTING & TRAPPING .5 Units
This course cannot be used for a required physical education credit; elective credit only
Prerequisite: None

This course will provide basic information on hunter ethics and tradition, hunting seasons, regulations, strategies, hunter safety course, proper gun handling, firearms and safety, outdoor emergencies and survival skills, and an awareness of Missouri's outdoors. Students will be participating in some outdoor activities.

0807563 OUTDOOR EDUCATION: FISHING & RECREATION .5 Units
This course cannot be used for a required physical education credit; elective credit only
Prerequisite: None

This course will provide basic information about different types of fishing, fishing equipment, skills of casting, fish identification, camping and hiking, regulations and responsibilities of the fisherman, map and compass, archery,
boating/safety, water sports, outdoor emergencies and survival skills, and an awareness of Missouri's outdoors. Students will be participating in some outdoor activities.

0807701 Semester 1  SPORTS ENHANCEMENT .5 Units
0807702 Semester 2  Prerequisite: Pass Personal Lifetime Fitness, Grade 10-12
This course is designed to increase athletic performance on the playing field by improving linear speed, acceleration and deceleration, quickness, multi-directional speed and agility, strength, explosive power, and flexibility, along with mental and leadership skills and proper sports nutrition—all essential components of peak athletic performance. This course will also look at the NCAA rules, recruiting guidelines, and college selection based on the needs of the student-athlete. Careers in the fitness area will also be considered. This class may be repeated for further credit.

0807853  TEEN HEALTH AND WELLNESS .5 Units
This course cannot be used for a required physical education credit; elective credit only
Prerequisite: Pass 9th Grade Health, Grade 11-12
Teen Health and Wellness class focuses on specific health issues and/or emerging trends in health and wellness, and is offered as an elective for juniors and seniors. It will explore current health concerns and trends as related to the teenage student. Students will gain awareness that health is not just the absence of disease but the positive state of physical, mental, and social well-being that promotes wellness. Topics will include; importance of human connection through healthy relationships, stress management, emotional health, adolescent mental health, situational awareness/self-defense, and other current issues that affect every day teen living. Students will be challenged to reflect and address personal obstacles blocking them from reaching their potential of a healthy lifestyle.

Project Lead the Way (PLTW)
PRE-ENGINEERING, BIOMEDICAL SCIENCES AND COMPUTER SCIENCE PROGRAMS

1009501 Semester 1  INTRODUCTION TO ENGINEERING 1 Unit
1009502 Semester 2  Prerequisite: Successful completion of pre-algebra/algebra or enrolled in algebra or higher course, or teacher recommendation.
Qualifies for Honors credit when a 6 or higher (9 maximum) is earned on the PLTW final exam. Grades 9-12
This is a foundation course in the pre-engineering Project Lead the Way (PLTW) curriculum sequence that offers a dynamic high school program providing students with real-world learning and hands-on experience. Students interested in engineering, biomechanics, aeronautics, and other applied math and science arenas will discover PLTW is an exciting portal into these industries. The major focus of the course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards and technical documentation. Students use 3D solid modeling software to help them design solutions to solve proposed problems and learn how to document their work and communicate solutions to peers and members of the professional community. Options for college credit are available.

1009551 Semester 1  PRINCIPLES OF ENGINEERING 1 Unit
1009552 Semester 2  Prerequisite: Successful completion of Introduction to Engineering Design OR instructor approval and/or concurrent enrollment in a course beyond Algebra 2
Note: A grade of "C" or better in Introduction to Engineering Design recommended or teacher recommendation;
Qualifies for Honors credit when a 6 or higher (9 maximum) is earned on the PLTW final exam. Grades 10-12
This is a foundation course in the pre-engineering Project Lead the Way (PLTW) curriculum sequence that offers a dynamic high school program providing students with real-world learning and hands-on experience. Students interested in engineering, biomechanics, aeronautics, and other applied math and science arenas will discover PLTW is an exciting portal into these industries. This survey course of engineering exposes students to major concepts they will encounter in a postsecondary engineering course of study. Students employ engineering and scientific concepts in the solution of engineering design problems. They develop problem solving skills and apply their knowledge of research and design to create solutions to various challenges, documenting their work and communicating solutions to peers and members of the professional community. Options for college credit are available.

1009601 Semester 1
1009602 Semester 2

DIGITAL ELECTRONICS 1 Unit

Prerequisite: Successful completion of Introduction to Engineering Design and Principles of Engineering

Note: A grade of "C" or better in prerequisites recommended or teacher recommendation

Qualifies for Honors credit when a 6 or higher (9 maximum) is earned on the PLTW final exam. Grades 11-12

This is a specialized course in the pre-engineering PLTW curriculum sequence that offers a dynamic high school program providing students with real-world learning and hands-on experience. Students interested in engineering, biomechanics, aeronautics, and other applied math and science arenas will discover PLTW is an exciting portal into these industries. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras and high-definition televisions. The major focus of the digital electronics course is to expose students to the process of combinational and sequential logic design, teamwork, communication methods, engineering standards and technical documentation. This course is designed for 10th, 11th and 12th grade students.

1009651 Semester 1
1009652 Semester 2

ENGINEERING DESIGN AND DEVELOPMENT 1 Unit

Prerequisite: Successful completions of Introduction to Engineering Design, Principles of Engineering and Digital Electronics

Note: A grade of “C” or better in prerequisites recommended or teacher recommendation

Qualifies for Honors credit when a 6 or higher (9 maximum) is earned on the PLTW final exam. Grade: 12

In this capstone course, students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions while working closely with industry professionals who provide mentoring opportunities. Finally, student teams present and defend their original solution to an outside panel. This course is appropriate for 12th grade students.

1312321 Semester 1
1312322 Semester 2

PRINCIPLES OF BIOMEDICAL SCIENCES – NCAA-approved 1 Unit

Prerequisite: None

Note: Successful completion of this course earns a science credit.

Qualifies for Honors credit when a 6 or higher (9 maximum) is earned on the PLTW final exam. Grades: 9-12

Note: Be prepared for Honors Level work and expectations in the Biomedical Science courses.

The PLTW Biomedical Sciences Program is a Project Lead the Way (PLTW) curriculum sequence which follows a proven hands-on, real-world problem-solving approach to learning. Students explore the concepts of human medicine and are introduced to topics such as physiology, genetics, microbiology and public health. Through activities, like dissecting a heart, students examine the processes, structures and interactions of the human body – often playing the role of biomedical professionals. They also explore the prevention, diagnosis and treatment of disease, working collaboratively to investigate and design innovative solutions to the health challenges of the 21st century such as fighting cancer with nanotechnology. Students also acquire strong teamwork and communication practices, and develop organizational, critical-thinking, and problem-solving skills. Along the way students investigate
a variety of careers in biomedical sciences. The program is designed to prepare students to pursue a post-secondary education and careers in the biomedical sciences.

Principles of Biomedical Sciences is the first of 4 courses in the biomedical sciences sequence that are planned to be phased-in over the next four years (see below for the phase-in process). Students investigate various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person’s life. The activities and projects introduce students to human physiology, medicine, and research processes. This course provides an overview of all the courses in the Biomedical Sciences program and lays the scientific foundation for subsequent courses. This course is designed for 9th, 10th, 11th and 12th grade students. College credit is available through Missouri S & T as well as other institutions for students earning a 6 or higher on the end of course assessment (optional).

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>1312331</td>
<td>Semester 1 HUMAN BODY SYSTEMS – NCAA-approved 1 Unit</td>
</tr>
<tr>
<td>1312332</td>
<td>Semester 2 HUMAN BODY SYSTEMS – NCAA-approved 1 Unit</td>
</tr>
<tr>
<td>Prerequisite: Successful completion of Principles of Biomedical Sciences</td>
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<tr>
<td>Note: A grade of “C” or better in Principles of Biomedical Science recommended or teacher recommendation</td>
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<tr>
<td>Note: Can be taken simultaneously with PBS or Medical Interventions with PLTW Science Teacher Approval</td>
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<tr>
<td>Note: Successful completion of this course earns a science credit.</td>
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<tr>
<td>Note: Be prepared for Honors level work and expectations in the biomedical science courses</td>
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The PLTW Biomedical Sciences Program is a Project Lead the Way (PLTW) curriculum sequence which follows a proven hands-on, real-world problem-solving approach to learning. In the Human Body System course, students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. 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. 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. College credit is available through Missouri S & T as well as other institutions for students earning a 6 or higher on the end of course assessment (optional).

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<tbody>
<tr>
<td>1312341</td>
<td>Semester 1 MEDICAL INTERVENTIONS – NCAA-approved 1 Unit</td>
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<tr>
<td>1312342</td>
<td>Semester 2 MEDICAL INTERVENTIONS – NCAA-approved 1 Unit</td>
</tr>
<tr>
<td>Prerequisite: Successful completion of Principles of Biomedical Sciences</td>
<td></td>
</tr>
<tr>
<td>Note: A grade of “C” or better in Principles of Biomedical Science and Human Body Systems recommended or teacher recommendation</td>
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</tr>
<tr>
<td>Note: Can be taken simultaneously with Human Body Systems or Biomedical Innovations with PLTW Biomedical Teacher Approval</td>
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<tr>
<td>Note: Successful completion of this course earns a science credit.</td>
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<td>Note: Be prepared for Honors level work and expectations in the biomedical science courses</td>
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The PLTW Biomedical Sciences Program is a Project Lead the Way (PLTW) curriculum sequence which follows a proven hands-on, real-world problem-solving approach to learning. Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. College credit is available through Missouri S & T as well as other institutions for students earning a 6 or higher on the end of course assessment (optional).
BIOMEDICAL INNOVATIONS – NCAA-approved 1 Unit
Prerequisite: Successful completion of Principles of Biomedical Sciences, Human Body Systems, and Medical Interventions
Note: A grade of “C” or better in Principles of Biomedical Science, Human Body Systems and Medical Interventions recommended or teacher recommendation
Note: Principles of Biomedical Science and Human Body Systems must be completed prior to enrolling in Biomedical Innovations. Medical Interventions and Biomedical Innovations may be taken simultaneously with PLTW Teacher Approval
Note: Successful completion of this course earns a science credit. Qualifies for Honors credit upon successful completion of project presentation at the end of the year. Grades: 11-12

In this capstone course, students design innovative solutions for the health challenges of the 21st century and have the opportunity to work on an independent project with a mentor or advisor from a university, hospital, research institution, or the biomedical industry.

COMPUTER SCIENCE PRINCIPLES 1 Unit
Prerequisite: None
Qualifies for Honors credit when a 6 or higher (9 maximum) is earned on the PLTW final exam. Grades: 9-12

Computer Science Principles is the first of four computer science course offerings that are planned to be phased in over the next three years (see below for phase-in process) and are part of a curriculum known as Project Lead the Way (PLTW). This is a foundation course in the computer science curriculum sequence that offers a dynamic high school program providing students with real-world learning and hands-on experience. Students will 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. This course meets the third course requirement of the PLTW Engineering sequence. Students may choose to take the AP Computer Science Principles exam upon completion of this course.

COMPUTER SCIENCE A 1 Unit
Prerequisite: Computer Science Principles
Qualifies for Honors credit when a 6 or higher (9 maximum) is earned on the PLTW final exam. Grade 10-12

Computer Science A is the second of four computer science course offerings that are planned to be phased in over the next three years (see below for phase-in process) and are part of a curriculum known as Project Lead the Way (PLTW). Students collaborate to produce programs that integrate mobile devices and leverage those devices for distributed collection and data processing. Students analyze, adapt, and improve each other’s programs while working primarily in Java™ and other industry-standard tools. After completing this course, students are eligible to sit for AP Computer Science test. Dual credit is offered through SLCC for IS:187 Java Programming I course. Students must complete the PLTW EOC or AP exam to qualify for dual credit.

CYBERSECURITY 1 Unit
Prerequisite: Computer Science A
Qualifies for Honors credit when a 6 or higher (9 maximum) is earned on the PLTW final exam. Grade 10-12

This course 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. Cybersecurity 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.
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<tbody>
<tr>
<td>1312001 Semester 1</td>
<td>PHYSICAL SCIENCE – NCAA-approved</td>
<td>1 Unit</td>
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<tr>
<td>1312002 Semester 2</td>
<td>Required of all Grade 9 students</td>
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Physical Science is an introductory course to the concepts of chemistry and physics. It covers atomic theory, physical and chemical properties of matter, Conservation of Matter, energy transformations, thermodynamics, linear motion, forces, Newton’s laws, energy, and nuclear properties. Lab experiences, scientific inquiry, and problem-solving are used to emphasize scientific concepts. This course serves as a foundation for the study of other sciences.

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<tr>
<td>1312151 Semester 1</td>
<td>BIOLOGY – NCAA-approved</td>
<td>1 Unit</td>
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<tr>
<td>1312152 Semester 2</td>
<td>Required for all Grade 10 students; students who have not earned credit in Physical Science will be enrolled in both Biology and Physical Science</td>
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</table>

Biology is an introductory course in the life sciences in which students use science and engineering practices and cross cutting concepts to investigate and understand the principles that govern the biological systems including the cell structure and function, homeostasis, variation and inheritance, evolution, sustainability, and man’s impact on our world.

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<tr>
<td>1312251 Semester 1</td>
<td>PRE-AP BIOLOGY – NCAA-approved</td>
<td>1 Unit</td>
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<tr>
<td>1312252 Semester 2</td>
<td>Prerequisite: Completion of Physical Science or equivalent; meet honors criteria</td>
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Biology is an introductory course in the life sciences in which students use science and engineering practices and cross cutting concepts to investigate and understand the principles that govern the biological systems including the cell structure and function, homeostasis, variation and inheritance, evolution, sustainability, and man’s impact on our world. This course will emphasize critical thinking as well as advanced reading, writing, and problem-solving skills. This class will provide a foundation for advanced science courses. This course requires a high degree of independent initiative.

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<tr>
<td>1312201 Semester 1</td>
<td>AP BIOLOGY – NCAA-approved</td>
<td>1 Unit</td>
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<tr>
<td>1312202 Semester 2</td>
<td>Prerequisite: Completion of Biology with a grade of &quot;B&quot; or better or teacher recommendation; completion of Chemistry and statistics are helpful but not required</td>
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This course is designed for the advanced and committed biology student (Pre-AP Biology and Pre-AP Chemistry are recommended but not required.) Topics include biochemistry, cellular energy, heredity, molecular genetics, evolution, diversity of organisms, and ecology. Lab experiences are an integral part of the course. This course will emphasize critical thinking as well as advanced reading, writing, and problem-solving skills. This course requires a high degree of independent initiative and is a preparatory course for the AP Biology exam. Advanced credit, when available.
CHEMISTRY I – NCAA-approved 1 Unit
Prerequisite: Physical Science (C or better recommended); concurrent enrollment in or completion of Algebra II

This course is highly recommended for students planning on enrolling in college or technical school. General Chemistry is the fundamental course in the study of matter and energy. Topics include: experiment design, measurement skills, atomic theory, classification of matter, nomenclature, stoichiometry, gas laws, periodic table, chemical bonding, solutions, and acids and bases. Lab experiences are an integral part of the course.

PRE-AP CHEMISTRY I – NCAA-approved 1 Unit
Prerequisite: Physical Science (C or better); concurrent enrollment in or completion of Algebra II; meet honors criteria

This course is highly recommended for college-bound students. In this course, students will be introduced to the study of the composition and properties of matter. Topics include measurement skills, atomic theory, classification of matter, nomenclature, stoichiometry, gas laws, periodic table, chemical bonding, solutions, and acids and bases. Lab experiences are an integral part of this course. This course will emphasize critical thinking as well as advanced reading, writing, and problem-solving skills. This course requires a high degree of independent initiative.

AP CHEMISTRY II – NCAA-approved 1 Unit
Prerequisite: Completion of Chemistry I Pre-AP and Algebra II, with a grade of B or better. Chemistry I may be substituted for Chemistry I Pre-AP with approval of the AP Chemistry instructor.

This course is designed for the advanced and committed chemistry student. Topics include: solutions, physical behaviors of gases, thermochemistry, electrochemistry, Kinetic Theory, and chemical equilibria. Lab experiences are an integral part of course. This course will emphasize critical thinking as well as advance reading, writing, and problem-solving skills. This is an Advanced Placement course that prepares the student to take the AP Chemistry exam. Advanced credit, when available. This course requires a high degree of independent initiative

PHYSICS I – NCAA-approved 1 Unit
Prerequisite: Concurrent enrollment in or completion of Algebra II or teacher recommendation

This course is designed for the intermediate to advanced student that has solid algebra skills. The course will cover standard topics of entry level physics including: linear motion, circular motion, two dimensional motion, forces, Newton’s Laws, energy, electricity, magnetism and introductory atomic and nuclear structures. Students will develop problem-solving skills through lab activities, interactive software, problem sets and classroom discussions.

AP PHYSICS I – NCAA-approved 1 Unit
Prerequisite: Completion of Algebra II with a grade of “B” or better; concurrent enrollment in Trigonometry recommended; meet honors criteria

AP Physics I is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry- based learning, students will develop scientific critical thinking and reasoning skills. The student should have solid algebra skills and have been introduced to trigonometry. This course requires a high degree of independent initiative. This is a preparatory course for the AP Physics I exam. Advanced credit, when available.
1312851 Semester 1  AP PHYSICS II – NCAA-approved  1 Unit
1312852 Semester 2
Prerequisite: AP Physics I with a grade of "B" or better or teacher recommendation; concurrent enrollment in Calculus recommended

This is a laboratory and mathematical intensive course. This course will build on the problem-solving skills developed and concepts learned in AP Physics I. Topics include: Newtonian mechanics, electricity and magnetism. Students should have extensive algebra and trigonometric skills. This course requires a high degree of independent initiative. This is a preparatory course for the AP Physics II exam. Advanced credit, when available.

1312711 Semester 1  ENVIRONMENTAL SCIENCE – NCAA-approved  1 Unit
1312712 Semester 2
Prerequisite: Completion of Biology

The student will explore various fundamental and advanced ecological concepts. Topics include: Foundations of Environmental Studies, water quality, solid waste management, air quality, human population, energy ecosystems, and biodiversity. Environmental responsibility will be emphasized through class discussions, lab situations, and real world applications.

1312411 Semester 1  EARTH SCIENCE – NCAA-approved  1 Unit
1312412 Semester 2
Prerequisite: Completion of Biology

Students will study the universality of change from the rock cycle through plate tectonics, as well as weather and the Earth's position in space. Topics include: physical properties of matter, rocks and minerals, weathering and erosion, historical geology, plate tectonics, volcanism and earthquakes, weather, natural disasters, and astronomy. Lab experiences are an integral part of this course.

1312311 Semester 1  ANATOMY & PHYSIOLOGY – NCAA-approved  1 Unit
1312312 Semester 2
Prerequisite: Completion of Biology with a "C" or better recommended or teacher recommendation. Qualifies for an Honors credit when an 80% or higher is earned on both the Semester 1 and Semester 2 final exams. Honors credit is determined on a semester basis, with the ability to earn the honors credit in first semester only, second semester only, or both semesters. Students cannot exempt the final exam and earn honors credit.

This is a rigorous course where students will study medical terminology, eleven body systems and their associated organs, and diseases associated with each human system. Students will learn through inquiry based lessons and laboratory experiences including dissections. This course requires a high degree of independent initiative.

1312801 Semester 1  BIOLOGY II (Zoology/Botany) – NCAA-approved  1 Unit
1312802 Semester 2
Prerequisite: Completion of Biology with a "C" or better recommended or teacher recommendation

This is a rigorous course where students will study the classification, structures and functions, and the life cycles (reproduction) of plants and animals with emphasis on local flora and fauna. Students will learn through inquiry based lessons, specimen collections, specimen dissection, live specimen lab work and research. This course requires a high degree of independent initiative.

1312751 Semester 1  BIOLOGY III HONORS (Human Genetics) – NCAA-approved  1 Unit
1312752 Semester 2
Prerequisite: Completion of Biology with a grade of "C" or better recommended or teacher recommendation (Biology II is not required)
This is a rigorous course where students will study the science of genetics. Topics will include: human cellular processes, DNA and the processes associated with it, genetic inheritance with an emphasis on genetic abnormalities, immunity and cancer, human biotechnology, gene therapy, and microbiology. Students will learn through inquiry based lessons, research, and laboratory experiences. This course requires a high degree of independent initiative.

1312321 Semester 1  PRINCIPLES OF BIOMEDICAL SCIENCES  – NCAA-approved 1 Unit
Prerequisite: None
Note: Successful completion of this course earns a science credit. Qualifies for Honors credit when a 6 or higher (9 maximum) is earned on the PLTW final exam. Grades: 9-12
Note: Be prepared for Honors level work and expectations in the biomedical science courses.

The PLTW Biomedical Sciences Program is a Project Lead the Way (PLTW) curriculum sequence which follows a proven hands-on, real-world problem-solving approach to learning. Students explore the concepts of human medicine and are introduced to topics such as physiology, genetics, microbiology and public health. Through activities, like dissecting a heart, students examine the processes, structures and interactions of the human body – often playing the role of biomedical professionals. They also explore the prevention, diagnosis and treatment of disease, working collaboratively to investigate and design innovative solutions to the health challenges of the 21st century such as fighting cancer with nanotechnology. Students also acquire strong teamwork and communication practices, and develop organizational, critical-thinking, and problem-solving skills. Along the way students investigate a variety of careers in biomedical sciences. The program is designed to prepare students to pursue a post-secondary education and careers in the biomedical sciences. Therefore, strong reading, writing, and science skills are essential to success in this course.

Principles of the Biomedical Sciences is the first of 4 courses in the biomedical sciences sequence that are planned to be phased-in over the next four years (see below for the phase-in process). Students investigate various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person’s life. The activities and projects introduce students to human physiology, medicine, and research processes. This course provides an overview of all the courses in the Biomedical Sciences program and lays the scientific foundation for subsequent courses. This course is designed for 9th, 10th, 11th and 12th grade students. College credit is available through Missouri S & T as well as other institutions for students earning a 6 or higher on the end of course assessment (optional).

1312331 Semester 1  HUMAN BODY SYSTEMS  – NCAA-approved 1 Unit
Prerequisite: Successful completion of Principles of Biomedical Sciences
Note: A grade of “C” or better in prerequisites recommended or teacher recommendation
Note: Successful completion of this course earns a science credit. Qualifies for Honors credit when a 6 or higher (9 maximum) is earned on the PLTW final exam. Grades: 10-12
Note: Be prepared for Honors level work and expectations in the biomedical science courses.

The PLTW Biomedical Sciences Program is a Project Lead the Way (PLTW) curriculum sequence which follows a proven hands-on, real-world problem-solving approach to learning. In the Human Body System course, students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. 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. 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. College credit is available through Missouri S & T as well as other institutions for students earning a 6 or higher on the end of course assessment (optional).
1312341 Semester 1  MEDICAL INTERVENTIONS – NCAA-approved  1 Unit
1312342 Semester 2 Prerequisite: Successful completion of Principles of Biomedical Sciences and Human Body Systems
Note: A grade of “C” or better in prerequisites recommended or teacher recommendation
Note: Successful completion of this course earns a science credit.
Qualifies for Honors credit when a 6 or higher (9 maximum) is earned on the PLTW final exam. Grades 11-12

The PLTW Biomedical Sciences Program is a Project Lead the Way (PLTW) curriculum sequence which follows a proven hands-on, real-world problem-solving approach to learning. Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. College credit is available through Missouri S & T as well as other institutions for students earning a 6 or higher on the end of course assessment (optional).

1312351 Semester 1  BIOMEDICAL INNOVATIONS – NCAA-approved  1 Unit
1312352 Semester 2 Prerequisite: Successful completion of Principles of Biomedical Sciences, Human Body Systems, and Medical Interventions
Note: A grade of “C” or better in Principles of Biomedical Science, Human Body Systems and Medical Interventions recommended or teacher recommendation
Note: Principles of Biomedical Science and Human Body Systems must be completed prior to enrolling in Biomedical Innovations. Medical Interventions and Biomedical Innovations may be taken simultaneously with PLTW Teacher Approval
Note: Successful completion of this course earns a science credit.
Qualifies for Honors credit upon successful completion and presentation of the yearlong curriculum Problem 8 formal research project and the formal presentation of research at the FHSD Stem Night occurring at the end of the school year. Grades: 11-12

In this capstone course, students design innovative solutions for the health challenges of the 21st century and have the opportunity to work on an independent project with a mentor or advisor from a university, hospital, research institution, or the biomedical industry.

1312721 Semester 1  AP ENVIRONMENTAL SCIENCE A (Online) – NCAA-approved  1 Unit
1312722 Semester 2 Prerequisite: A grade of “C” or better in two years of laboratory sciences is recommended. Algebra I and Algebra II are required, although Algebra II can be taken concurrently.

AP Environmental Science is a yearlong examination of the interrelationships of the natural world. Students identify and analyze environmental problems and their effects, and evaluate the effectiveness of proposed solutions. Students learn to think like environmental scientists: making predictions based on observations, writing hypothesis, designing and completing field studies and experiments, and reaching conclusions based on the analysis of data derived from these experiments. Students apply the concepts of environmental science to their everyday experiences and current events and issues in science, politics, and society. The course provides opportunities for guided inquiry and student-centered learning to foster critical thinking skills. This course is presented online and the student will be required to complete coursework to the established timeline provided by the virtual instructor. Successful completion of this course is dependent on the student’s ability to meet the criteria outlined by the virtual instructor’s syllabus. This online course is considered an 8th hour course offering. Students will be responsible for their pacing in the course.
Francis Howell School District  
High School Science Courses  

**Graduation Requirements:**  
3.0 units of science credit  

**College Preparatory Recommendations:**  
4.0 (or more) units of science credit  

<table>
<thead>
<tr>
<th>GRADE</th>
<th>9th</th>
<th>10th</th>
<th>11th / 12th</th>
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<tbody>
<tr>
<td><strong>Required Courses</strong></td>
<td>Physical Science&lt;br&gt;For students who successfully completed Physical Science 9th Grade as an 8th grader:&lt;br&gt;Biology&lt;br&gt;Or&lt;br&gt;Pre-AP Biology</td>
<td>Biology&lt;br&gt;Or&lt;br&gt;Pre-AP Biology</td>
<td>Students who successfully completed Biology or Biology Honors in 9th grade. No courses are required for students.</td>
</tr>
<tr>
<td><strong>Elective Courses</strong></td>
<td>Principles of Biomedical Sciences</td>
<td>Students may enroll simultaneously in Chemistry I, Pre-AP Chemistry I, Physics I or Pre-AP Physics I if they meet the math prerequisite (see course descriptions).&lt;br&gt;Principles of Biomedical Sciences&lt;br&gt;Human Body Systems</td>
<td>Chemistry I&lt;br&gt;Pre-AP Chemistry I&lt;br&gt;AP Chemistry II&lt;br&gt;Physics I&lt;br&gt;AP Physics I&lt;br&gt;AP Physics II&lt;br&gt;Environmental Studies&lt;br&gt;Earth Science&lt;br&gt;Anatomy and Physiology&lt;br&gt;Biology II (Zoology &amp; Botany)&lt;br&gt;Biology III Honors (Human Genetics)&lt;br&gt;AP Biology&lt;br&gt;AP Environmental Science A (online)&lt;br&gt;Principles of Biomedical Sciences&lt;br&gt;Biomedical Innovations&lt;br&gt;Human Body Systems&lt;br&gt;Medical Interventions</td>
</tr>
</tbody>
</table>
SOCIAL STUDIES

1513301 Semester 1  
1513302 Semester 2  
UNITED STATES HISTORY – NCAA-approved  
Prerequisite: Grade 9 and transfer students only  
1 Unit

This course will focus on domestic policy including the post-Civil War era, the role of the United States as a world power, the post-Cold War era, and modern United States history. Students will also examine the traditions, attitudes, and values that reflect our national heritage and which have been shaped by our nation’s history.

1513401 Semester 1  
1513402 Semester 2  
PRE-AP UNITED STATES HISTORY – NCAA-approved  
Prerequisite: Grade 9 and meet honors criteria  
1 Unit

This course will focus on domestic policy including the post-Civil War era, the role of the United States as a world power, the post-Cold War era, and modern United States history. Students will also examine the traditions, attitudes, and values that reflect our national heritage and which have been shaped by our nation’s history. Emphasis will be placed on the advanced development of reading, writing, and critical thinking skills, particularly in the analysis of historical data and primary sources.

1514001 Semester 1  
1514002 Semester 2  
MODERN WORLD HISTORY – NCAA-approved  
Prerequisite: Grade 10 and transfer students  
1 Unit

This course will explore the heritage of the Renaissance in Europe, the rise and fall of monarchies and the ensuing political and industrial revolutions, imperialism, the world wars of the twentieth century, and the sociopolitical realities of the modern world. Students will explore the interaction and mutual influence occurring between civilizations as well as the technological and intellectual developments that have had a major impact on world civilizations.

1513551 Semester 1  
1513552 Semester 2  
AP EUROPEAN HISTORY – NCAA-approved  
Prerequisite: Grade 10, 11, or 12 or transfer  
1 Unit

This course will begin with the foundations of western civilization and follow its development in Europe through modern times. The study of European history since 1450 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. Without this knowledge, we would lack the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, the evolution of current forms of artistic expression and intellectual discourse. In addition to providing a basic narrative of events and movements, the goals of this course are to develop (a) an understanding of some of the principle themes in modern European history, (b) an ability to analyze historical evidence and historical interpretations, and (c) an ability to express historical understanding in writing. Emphasis will be placed on the advanced development of reading, writing, and critical thinking skills, particularly in the analysis of historical data and sources. Students may choose to take the Advanced Placement European History exam and possibly earn college credit.

1514151 Semester 1  
1514152 Semester 2  
AP WORLD HISTORY – NCAA-approved  
Prerequisite: Grade 10, 11, or 12;  
1 Unit

This course invites students to take a global view of historical processes and contacts between people in different societies, with an emphasis on the past thousand years. Students will be expected to learn selective factual knowledge in addition to certain analytical skills. Major interpretive issues among historians will be explored, as well as techniques used in interpreting both primary historical evidence and secondary sources. Themes will be employed throughout the course, though the basic approach will be chronological. Students will pay particular attention to change and continuity over time, to the characteristic institutions and values of societies, and to the way
such institutions and values are affected as a result of cultural contacts among peoples. Emphasis will be placed on
the advanced development of reading, writing, and critical thinking skills, particularly in the analysis of historical data
and primary sources. Students may choose to take the Advanced Placement World History exam and possibly earn
college credit.

In order to be recommended for AP World History as a sophomore, freshmen students in Pre-AP U.S. History in 9th
grade must have a 90% or better. Students will also write a Document Based Question essay as part of the
evaluation process and must score a 5 or better when scored according to the AP World History DBQ essay rubric
created by the College Board.

1513051 Semester 1  AMERICAN GOVERNMENT – NCAA-approved 1 Unit
1513052 Semester 2  Prerequisite: Grade 11

This course will develop student understanding and competence in American citizenship. During the first semester
students will focus on the heritage of American government, the U.S. Constitution, and politics and elections. During
the second semester students will focus on the branches of government, civil liberties and civil rights, citizenship,
foreign policy, and state and local government. This course will fulfill Missouri state graduation requirements.
Students will be required to pass the Missouri Constitution Test and the United States Constitution Test with at least
a 70%. Students are also required to enroll in American Government-Semester 2.

1513151 Semester 1  AP GOVERNMENT AND POLITICS – NCAA-approved 1 Unit
1513152 Semester 2  Prerequisite: Grade 11 or 12 or transfer

This course is an introductory college course in United States government and politics. This course includes both
the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples.
It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government
and politics. Objectives for the course include knowing important facts, concepts, and theories pertaining to U.S.
government and politics; understanding typical patterns of political processes and behavior and their consequences
(including the components of political behavior, the principles used to explain or justify various government structures
and procedures, and the political effects of these structures and procedures); being able to analyze and interpret
basic data relevant to U.S. government and politics (including data presented in charts, tables, and other formats);
and being able to critically analyze relevant theories and concepts, apply them appropriately, and develop their
connections across the curriculum. Emphasis will be placed on the advanced development of reading, writing, and
critical thinking skills, particularly in the analysis of data and sources. Students may choose to take the Advanced
Placement U.S. Government and Politics exam and possibly earn college credit. This course will fulfill Missouri state
graduation requirements. Students will be required to pass the Missouri Constitution Test and the United States
Constitution Test with at least a 70%.

1513753  PSYCHOLOGY – NCAA-approved .5 Units
Prerequisite: Grade 11-12

This course is an introduction to the study of human behavior. Topics include a brief introduction to the history and
development of psychology as a science, methods of psychological research, processes of sensation and perception,
intelligence and creativity, principles of learning, process of remembering and forgetting, thinking, biological
influences on behavior, motivation and emotions, understanding and measuring personality, and the identification
and treatment of various psychological disturbances. Students will continue to develop skills in organizing materials,
note-taking, communications, researching, and critical thinking.

1517993  INTRODUCTION TO SOCIOLOGY – NCAA-approved .5 Units
Prerequisite: Grade 11-12

Sociology is the study of group dynamics. The student will explore subjects such as socialization, culture and group
interaction, social structure, communal change and societal problems. Students will learn basic skills in sociological
research, will be able to define key sociology terms, and will be encouraged to relate sociological concepts to their own lives. Finally, students will identify the contributions sociology has made to improve the human condition. Students will continue to develop skills in organizing materials, note-taking, communicating, research, and critical thinking.

1513603 CONTEMPORARY ISSUES – NCAA-approved .5 Units
Prerequisite: Grade 11-12

This course will involve students with the issues, problems, and events in our world today. State, local, national, and international issues will be highlighted on a continuing basis. Emphasis will be placed on the inter-relationship of concepts from the various social sciences - psychology, sociology, economics, and political science - and how they relate to the issues and events mentioned above. A variety of electronic resources will be used for historical background and additional data. Students will continue to develop skills in organizing materials, note-taking, communicating, research, and critical thinking.

1513901 Semester 1 AP UNITED STATES HISTORY – NCAA-approved 1 Unit
1513902 Semester 2 Prerequisite: Grade 11 or 12 or transfer

This course will focus on our nation's history from discovery and colonization to the present. The AP U.S. History course is designed to deal critically with the problems and materials in U.S. history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students will learn to assess historical materials—their relevance to a given interpretive problem, reliability, and importance—and to weigh the evidence and interpretations presented in historical scholarship. This course will develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. Emphasis will be placed on the advanced development of reading, writing, and critical thinking skills, particularly in the analysis of historical data and primary sources. Students may choose to take the Advanced Placement United States History exam and possibly earn college credit.

1513771 Semester 1 AP PSYCHOLOGY – NCAA-approved 1 Unit
1513772 Semester 2 Prerequisite: Grade 11 or 12 or transfer

This course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings, and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. Emphasis will be placed on the advanced development of reading, writing, and critical thinking skills. Students may choose to take the Advanced Placement Psychology exam and possibly earn college credit.

1513853 MODERN AMERICAN CULTURE – NCAA-approved .5 Units
Prerequisite: Grade 11-12

This course will explore modern American culture and its impact on history by providing an introduction to critical issues and approaches in the study of modern American history. Culture is all around us, influencing how we think, how we feel, how we vote, how we live our lives in countless ways. This course will use our own expertise as consumers of media as a take-off point for exploring the various roles played by mass-mediated culture in our lives.
We will look primarily at television, film, advertising, music, sports, fashion and new technologies that have impacted our ability to save time and energy in the household and our daily lives. We will analyze how critical factors such as ethnicity, race, gender, class, age, and region are shaped by and reshaped in our culture. Students will continue to develop skills in organizing materials, note-taking, communication, researching, and critical thinking.
Francis Howell School District  
High School Social Studies Courses

All Pre-AP and AP Courses are weighted.

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<th>GRADE</th>
<th>9th</th>
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<th>12th</th>
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<tbody>
<tr>
<td>Required</td>
<td>United States History 9</td>
<td>Modern World History OR (Choose One)</td>
<td>American Government OR AP Government and Politics</td>
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<tr>
<td></td>
<td>OR United States History 9 Pre-AP</td>
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<tr>
<td>Electives</td>
<td>AP Human Geography</td>
<td>AP Human Geography</td>
<td>Psychology Introduction to Sociology</td>
<td>Psychology Introduction to Sociology</td>
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<td>AP U.S. History Contemporary Issues</td>
<td>AP U.S. History Contemporary Issues</td>
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<td>AP European History</td>
<td>AP European History</td>
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<td>AP World History</td>
<td>AP World History</td>
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<td>AP Psychology</td>
<td>AP Government and Politics</td>
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<td>AP Human Geography Modern American Culture</td>
<td>Modern American Culture</td>
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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 to 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.

A complete application is required to apply. CAPS interviews may occur as well for strand placement purposes. The CAPS application can be found under Enrollment on the St. Charles County CAPS website: scccaps.org.

1818201 Semester 1  
1818202 Semester 2  
TECHNOLOGY SOLUTIONS  
Prerequisite: None, but completion of the CAPS application is required (PLTW Computer Science or related business courses preferred)  
Grade: 11-12  
Credit: 1.5 elective credits per semester  
Classroom Location:  
Charter Spectrum (Riverport Tower)  
13736 Riverport  
Drive, Maryland Heights, MO  63043

Technology Solutions - Information Technology

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

Technology Solutions - Creative Media

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

1818301 Semester 1  HEALTHCARE
1818302 Semester 2  Prerequisite: None, but completion of the CAPS application is required
(Anatomy & Physiology/PLTW Human Body Systems or equivalent preferred)
Grade: 11-12
Credit: 1.5 elective credits each semester
Classroom Location:
Vatterott College
3550 West Clay Street,
St. Charles, MO  63301

**Hospitals:**
BJC Progress West Hospital
BJC St. Peters Hospital
SSM Health St. Joseph Hospital – Lake St. Louis
SSM Health St. Joseph Hospital – St. Charles

**Overview:** 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. **Students must provide their own transportation to and from the business site. 95% attendance is expected to remain in the course.**

1818401 Semester 1  GLOBAL BUSINESS/ENTREPRENEURSHIP
1818402 Semester 2  Prerequisite: None, but completion of the CAPS application is required
Grade: 11-12
Credit: 1.5 electives credits each semester
Classroom Location(s):
- Stauder Technologies (M, T, R, & F)
  114 Mexico Court
  St. Peters, MO  63376
- Economic Development Center of
  St. Charles County (Wednesdays only)
  5988 Mid Rivers Mall Drive
  St. Peters, MO  63376

**Overview:** This course strand is designed for students to create real startup ventures and solve real business needs. They will be mentored by real employers and gain marketable professional skills in an off-campus location. This course will provide students a challenging, innovative, authentic, experiential learning environment that allows them to discover personal passions. Students will develop professional skills that are necessary to thrive in collaborative, innovative, and fast-paced environments. Their growth mindset and confidence will increase. Students engaging in entrepreneurship will learn startup principles and develop an entrepreneurial mindset. They will turn ideas into actions, by validating their ideas, perfecting a pitch, and seeking resources and opportunities for a product or service. Students 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. **Students must provide their own transportation to and from the business site. 95% attendance is expected to remain in the course.**
College Credit for all three CAPS strands:

- Lindenwood University
  - Profession-Based Essentials (1 credit hour): A profession-based skills development course that prepares students for a profession-based work experience, internship, or practicum.
  - Profession-Based Work Experience (1-3 credit hours): A profession-based work experience that enables students to work within a business context, clarify their career goals, and develop their professional skills under the supervision, guidance, and mentoring of an industry professional. Credit will vary depending upon time spent. One hour of credit requires 50 hours of work time.

TEST PREP

<table>
<thead>
<tr>
<th>ACT PREP SKILLS</th>
<th>.5 Units</th>
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</table>

Prerequisite: Priority enrollment to juniors and seniors
Recommended:
- Jr - successful completion of Geometry
- Sr - concurrent with Geometry or higher

ACT Prep skills is an elective course designed to prepare students for the ACT test. Students will learn test-taking strategies in addition to a review of skills and knowledge associated with the tested content areas of English, Math, Reading, Science and Writing. This course is designed to increase scores of students that are in the range of 16 – 26. Students enrolled in the course will be expected to sign up and sit for an actual ACT test.

WORLD LANGUAGE

<table>
<thead>
<tr>
<th>LEVEL 1 - WORLD LANGUAGE – NCAA-approved</th>
<th>1 Unit</th>
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</thead>
<tbody>
<tr>
<td>SPECIFY LANGUAGE:</td>
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</tr>
<tr>
<td>FRENCH</td>
<td>Semester 1: 0616001 Semester 2: 0616002</td>
</tr>
<tr>
<td>GERMAN</td>
<td>Semester 1: 0616251 Semester 2: 0616252</td>
</tr>
<tr>
<td>SPANISH</td>
<td>Semester 1: 0616501 Semester 2: 0616502</td>
</tr>
<tr>
<td>MANDARIN CHINESE</td>
<td>Semester 1: 0617001 Semester 2: 0617002</td>
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</table>

Prerequisite: “C” average or above in other course work is recommended
This course is not designed for native speakers of the language.
World Language Level 1 is designed to introduce students to the fundamentals of the target language. Emphasis will be placed on acquisition of vocabulary and basic grammar through reading, writing, speaking, and listening. The study of people, culture, customs, and geography of the target-language countries will be integrated throughout the course. This course is a prerequisite for Level 2 and, eventually, the AP World Language class.

**LEVEL 2 - WORLD LANGUAGE – NCAA-approved**

1 Unit

**SPECIFY LANGUAGE:**

<table>
<thead>
<tr>
<th>Language</th>
<th>Semester 1</th>
<th>Semester 2</th>
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<tbody>
<tr>
<td>FRENCH</td>
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<td>0616052</td>
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<tr>
<td>GERMAN</td>
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<td>0616302</td>
</tr>
<tr>
<td>SPANISH</td>
<td>0616551</td>
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</tbody>
</table>

Prerequisite: "C" average or above in Level I, or equivalent, is recommended

This course is not designed for native speakers of the language.

This course is designed for students who have already successfully completed Level 1, or equivalent, in middle school or high school. In this course, students will increase their knowledge of target-language vocabulary and grammar. Emphasis will continue to be placed on development of reading, writing, speaking, and listening skills. Students will apply these concepts in original verbal and written communication. This course is a prerequisite for Level 3 and eventually, the AP World Language class.

**PRE-AP WORLD LANGUAGE 3 – NCAA-approved**

1 Unit

**SPECIFY LANGUAGE:**

<table>
<thead>
<tr>
<th>Language</th>
<th>Semester 1</th>
<th>Semester 2</th>
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</thead>
<tbody>
<tr>
<td>FRENCH</td>
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<td>0616102</td>
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<tr>
<td>GERMAN</td>
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<tr>
<td>SPANISH</td>
<td>0616601</td>
<td>0616602</td>
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</table>

Qualifies for the honors program

Prerequisite: "C" average or above in Level 2, or equivalent, is strongly recommended

It is recommended that native speakers of the language begin at this level.

In this honors class, students will continue to develop mastery of grammar, vocabulary, listening, reading skills, creative writing, and spontaneous speaking. Students will be provided with opportunities to explore the cultures and geography of the various regions where the target language is spoken. Students may elect to receive 5 credit hours through the Advanced Credit program at the University of Missouri - St. Louis, when available. This course is a prerequisite for Level 4 and, eventually, the AP World Language class.

*Enrollment numbers will determine the availability of this course.

**PRE-AP WORLD LANGUAGE 4 – NCAA-approved**

1 Unit

**SPECIFY LANGUAGE:**

<table>
<thead>
<tr>
<th>Language</th>
<th>Semester 1</th>
<th>Semester 2</th>
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<tbody>
<tr>
<td>FRENCH</td>
<td>0616151</td>
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<tr>
<td>SPANISH</td>
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</table>

Qualifies for the honors program

Prerequisite: "C" average or above in Level 3 is strongly recommended

In this honors class, students will continue to develop and perfect their ability to express themselves in original oral and written communication. Listening and reading selections will be implemented to enhance understanding, appreciation and respect for speakers of the target language and their cultures. Communication within this course will be done almost entirely in the target language as recommended by American Council on Teaching Foreign Languages. Students may elect to receive 5 credit hours through the Advanced Credit program at the University of Missouri - St. Louis, when available. This course is a prerequisite for the AP World Language Level 5 class.
AP WORLD LANGUAGE & CULTURE  – NCAA-approved  1 Unit

**SPECIFY LANGUAGE:**

FRENCH  Semester 1: 0616751  Semester 2: 0616752  
GERMAN  Semester 1: 0616801  Semester 2: 0616802  
SPANISH  Semester 1: 0616851  Semester 2: 0616852  

Qualifies for the honors program  
Prerequisite: "C" average or above in Level 4 is strongly recommended

In this Advanced Placement class, students will continue to develop and perfect listening comprehension, speaking, reading, and writing skills as well as continue acquisition of cultural awareness and appreciation. Previous and new grammar concepts will be presented through units of study, which may include immersion activities, readings in contemporary and classical literature, history, art, music, geography, and essay writing. Focus will be placed on preparing students to take the Advanced Placement exam in the spring if they choose to do so. Communication within this course will be done almost entirely in the target language as recommended by American Council of Teaching Foreign Languages. Students may also elect to receive 3 credit hours through the Advanced Credit program at the University of Missouri - St. Louis, when available.

### Special Education

**TRANSITION SKILLS**  .5-1 Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester 1</th>
<th>Semester 2</th>
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<tbody>
<tr>
<td>3022601</td>
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<tr>
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<td>2822601</td>
<td>2822602</td>
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</tbody>
</table>

Prerequisite: Special Education Placement

This course is designed to aid special education students in grades 11-12 in achieving successful post-secondary outcomes and create lifelong learners. Students will develop an awareness of career, educational and independent living skills to assist them in employment, education and personal goals. Students will be taught self-awareness, career research, and exploration of post-secondary educational/training options, rights and responsibilities, test taking strategies, basic living skills and financial responsibility. This class would benefit students entering the work force after high school.

**S.T.U.D.I.E.S I** (Strategies and Techniques for Understanding, Developing Independent, and Effective Students)  .5-1 Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester 1</th>
<th>Semester 2</th>
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</thead>
<tbody>
<tr>
<td>2622211</td>
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<tr>
<td>2922211</td>
<td>2922212</td>
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</table>

Prerequisite: Special Education Placement

This course is designed to teach students with disabilities in 9th grade to adjust to the new high school environment and to become independent learners as well as teach students skills needed to succeed in the general education setting. Areas of emphasis include: transition to high school, study skills and personal skills.

**S.T.U.D.I.E.S II** (Strategies and Techniques for Understanding, Developing Independent, and Effective Students)  .5-1 Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester 1</th>
<th>Semester 2</th>
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</thead>
<tbody>
<tr>
<td>2622221</td>
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<td>2922221</td>
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</table>

Prerequisite: Special Education Placement

This course is designed to teach students with disabilities in 10th grade students to adjust to more demands as a young adult and to become more independent learners. This course also teaches students the skills needed to
succeed in the general education and community setting, such as employment/dating. Areas of emphasis include: transition to high school and the community, study skills, and personal skills.

**S.T.U.D.I.E.S III (Strategies and Techniques for Understanding, Developing Independent, and Effective Students)** .5-1 Units

2622231 Semester 1 / 2622232 Semester 2
2922231 Semester 1 / 2922232 Semester 2
Prerequisite: Special Education Placement

This course is designed to teach students with disabilities in 11th or 12th grade to self-advocate and to become independent learners as well as teach students skills needed to succeed in the post-secondary setting. Areas of emphasis include: transition to post-secondary, study skills and personal skills, such as setting long and short term goals, self-advocacy, and self-determination.

**WORK EXPERIENCE FIELD WORK** .5-1 Units

2628001 Semester 1 / 2628002 Semester 2
3028001 Semester 1 / 3028002 Semester 2
Prerequisite: Special Education Placement and Vocational Rehabilitation acceptance

This course works in conjunction with all special education programs. The course is intended to allow students involved in special services programs to receive academic credit while actively participating in work experience. The program will encourage students to gain vocational experience while offering each participant direction in the development of realistic vocational goals that will result in successful integration into the working community upon graduation. Students may earn up to 2 credits per academic school year.

**COLLEGE 101 – ORIENTATION TO COLLEGE** .5 Units

2628303
Prerequisite: Special Education Placement, Grade 12 and teacher recommendation

Orientation to College has been designed to assist students with transition to college life. Specifically, the class will examine the transitions that take place and develop the strategies to cope with them. This course will focus upon group building and creating a “belonging place” for new students. Through a variety of in class and home exercises, students will be encouraged to explore values, goals, and self-determination skills. Students will be directed to key support services and college resources to enhance the quality of the college experience.
## Lewis & Clark Career Center
### Course Clusters

<table>
<thead>
<tr>
<th>Advanced Manufacturing</th>
<th>Construction Trades</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Precision Machining Technology</td>
<td>• Brick &amp; Stone Masonry</td>
</tr>
<tr>
<td>• Combination Welding</td>
<td>• Building Trades – Carpentry</td>
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<tr>
<td></td>
<td>• Electrical Trades</td>
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<td></td>
<td>• Heating, Ventilation, &amp; Air Conditioning (HVAC)</td>
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</tbody>
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<thead>
<tr>
<th>Automotive &amp; Mechanical Technology</th>
<th>Education Preschool &amp; Elementary Careers</th>
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</thead>
<tbody>
<tr>
<td>• Auto Collision Repair</td>
<td>• Early Childhood Career</td>
</tr>
<tr>
<td>• Auto Service Technology</td>
<td>(Birth - 3rd grade)</td>
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<tr>
<td>• Power Equipment Technology</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Information Technology</th>
<th>Health Sciences</th>
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<tr>
<td>• Computer Maintenance and Networking</td>
<td>• Health Occupations</td>
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<tr>
<td>• Computer Software Development</td>
<td>• Health Related Occupations</td>
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<thead>
<tr>
<th>Hospitality</th>
<th></th>
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<tbody>
<tr>
<td>• Applied Retail &amp; Business Skills</td>
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</tbody>
</table>
ADVANCED MANUFACTURING

1717541 Year 1 PRECISION MACHINING TECHNOLOGY
1717542 Year 1 1 or 2 year program; 3 units of credit per year
1717531 Year 2 Prerequisite: C or better in Algebra I
1717532 Year 2

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.


Instructional delivery will be both in the classroom and the shop. Both project-based and problem-based learning methods will be utilized.

1717151 Year 1 COMBINATION WELDING
1717152 Year 1 2 year program; 3 units of credit per year
1717161 Year 2 Prerequisite: Asthma Free
1717162 Year 2

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

1717001 Year 1 AUTO COLLISION REPAIR
1717002 Year 1 2 year program; 3 units of credit per year
1717011 Year 2 Prerequisite: None
1717012 Year 2

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/clearcoat 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.

1717051 Year 1            AUTO SERVICE TECHNOLOGY  
1717052 Year 1            2 year program; 3 units of credit per year  
1717061 Year 2            Prerequisite: None  
1717062 Year 2

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.

Areas of instruction include:
- Engine Repair
- Brakes
- Steering and Suspension
- Heating /Air Conditioning
- Electrical /Electronics
- Engine Performance
- Basic Manual/Automatic Transmission

Instructional time is (approximately) 50% class and 50% lab.

1717501 Year 1            POWER EQUIPMENT TECHNOLOGY  
1717502 Year 1            1 or 2 year program; 3 units of credit per year  
1717511 Year 2            Prerequisite: None  
1717512 Year 2

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

1717351 Year 1  COMPUTER MAINTENANCE & NETWORKING (COLLEGE CREDIT)
1717352 Year 1  1 year program; 3 units of credit per year
Prerequisite: None

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.

1717331 Year 1  COMPUTER SOFTWARE DEVELOPMENT
1717332 Year 1  1 or 2 year program; 3 units of credit per year

The Computer Software Development program is a great fit for the analytical student who has a love for computers. Computer programmers use logic and reasoning to identify complex problems and create innovative solutions. Projected occupational demand is high, and the pay is very good.

One year of the program there will be an emphasis on software development. The Linux operating system will be utilized. Students will learn how to write and edit source code using programming languages including Java and Python. Students will design, create, and maintain PC software, mobile apps, and will also have the opportunity to publish their app in the Google Play Store. The other year will concentrate on the Windows operating system. Content will include 2D and 3D graphics, animation, robotics, web pages, database design, and Structured Query Language (SQL).

Articulating Institutions & Credits Offered: St. Charles Community College; up to 6 credits.

Employment Opportunities: This is an in-demand field and skills learned here are applicable to many different workplace environments, including, but not limited to, the following career options: Computer Programmer, Software Developer/Apps, Web Developer, Network/Computer Systems Administrator, Computer Systems Analyst, Software Tester, User Interface Specialist, Software Analyst.
CONSTRUCTION TRADES

1717701 Year 1  BRICK & STONE MASONRY
1717702 Year 1  2 year program; 3 units of credit per year
1717711 Year 2  Prerequisite: None
1717712 Year 2

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.

1717101 Year 1  BUILDING TRADES – CARPENTRY
1717102 Year 1  2 year program; 3 units of credit per year
1717111 Year 2  Prerequisite: None
1717112 Year 2

This course is open to juniors who show an interest and aptitude in the field of construction as a wage earning occupation. Students are familiarized with entry level skills for the major trades involved in residential constructions such as carpentry, siding, interior trim, drywall hanging, roofing, concrete work and landscaping.

Most of the program involves the actual building of a house in Lewis & Clark Career Center's own subdivision. Students not only gain experience in home construction, but will also learn about subdivision construction. Houses are sold upon completion. Students will gain experience in building both a single and a two-story dwelling.

Because of the high demand nature of this program, students interested in a second year must demonstrate a proficient level of ability in the field necessary to be recommended for hire by area contractors for a summer apprenticeship. Second year students are expected to act as foreman and leaders to first year students.

Students will have the opportunity to earn an OSHA 10 certificate and to be prepared for the WorkKeys assessment, required by the Carpenter's Union.

It is recommended that students have one year of industrial arts.

1717651 Year 1  ELECTRICAL TRADES
1717652 Year 1  2 year program; 3 units of credit per year
1717661 Year 2  Prerequisite: Algebra with a “C” or higher; Read at or above Grade level
1717662 Year 2

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)**

- **1717551 Year 1**
  - 2 year program; 3 units of credit per year
- **1717552 Year 1**
  - Prerequisite: Algebra 1 with a "C" or higher
- **1717561 Year 2**
  - Prerequisite: Algebra 1 with a "C" or higher
- **1717562 Year 2**
  - 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.

Because of the high demand nature of this program, students interested in second year must demonstrate a proficient level of ability in the field necessary to be recommended for hire by area contractors for a summer apprenticeship. Second year students are expected to act as foreman and leaders to first year students.

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. Students will have the opportunity to earn an OSHA 10 certificate and to be prepared for the WorkKeys assessment, required by the Carpenter's Union.

**EDUCATION**

**Preschool & Elementary Careers**

- **1717631 Year 1**
  - EARLY CHILDHOOD CAREERS
- **1717632 Year 1**
  - 1 or 2 year program (Completion of 2 years for CDA eligibility)
- **1717641 Year 2**
  - 3 units of credit per year
- **1717642 Year 2**
  - Prerequisite: None; 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**

- **1717401 Year 1**
  - HEALTH OCCUPATIONS & HEALTH RELATED OCCUPATIONS
  - (COLLEGE CREDIT)
- **1717402 Year 1**
  - 1 year program; 3 units of credit per year
  - Prerequisite: None

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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Information</th>
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</thead>
<tbody>
<tr>
<td>1717601 Year 1</td>
<td>APPLIED RETAIL AND BUSINESS SKILLS</td>
<td>1 or 2 year program; 3 units of credit per year</td>
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<tr>
<td>1717602 Year 1</td>
<td></td>
<td>Prerequisite: None</td>
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<tr>
<td>1717611 Year 2</td>
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<tr>
<td>1717612 Year 2</td>
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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.
High School Credit Recovery

High School students have the opportunity to recover 1 full credit (two 0.5 credits) in the summer Credit Recovery program. Students enroll based on credit recovery needs. Students attend 10 days for 6 hours per day to recover each 0.5 credit course. Summer program offerings are approved each year by the Board of Education and enrollments begin in February during individual registration. Course offerings are dependent on student enrollment numbers.

Courses traditionally offered as Credit Recovery include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Recovery Program</th>
<th>MO Options</th>
<th>Algebra II</th>
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</thead>
<tbody>
<tr>
<td>Algebra I</td>
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<td>Algebra IA</td>
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<td>Algebra IB</td>
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<td>Geometry</td>
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<td>Health</td>
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<tr>
<td>Intermediate Algebra</td>
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<tr>
<td>Modern World History</td>
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<tr>
<td>Personal Finance</td>
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<tr>
<td>Personal Lifetime Fitness</td>
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<tr>
<td>Physical Science</td>
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<tr>
<td>US History</td>
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Schools will advertise summer program offerings through school and district eNews as well as the district summer school website.

Sessions usually run during the month of June and end before the July 4th holiday. For additional High School Summer Credit Recovery information, please contact a high school Counselor’s office, email the district summer school administrator at FHSDsummerschool@fhsdschools.org, or call (636) 851-4012.

High School Credit Advancement

High School students have the opportunity to earn 1 full credit (two 0.5 credits) in the summer Credit Advancement program. Students enroll from the list of courses offered. Students attend 20 days for 3 hours per day to earn each 0.5 credit course. To earn 1 full credit, a student would attend 20 days for 6 hours per day. Summer program offerings are approved each year by the Board of Education and enrollments begins in early May. Course offerings are dependent on student enrollment numbers.

Courses traditionally offered as Credit Advancement include:

<table>
<thead>
<tr>
<th>Credit Enrichment Course Offerings</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weightlifting</td>
<td>0.5</td>
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<tr>
<td>Basketball/Softball/Field Sports</td>
<td>0.5</td>
</tr>
<tr>
<td>Personal Finance – Online Course</td>
<td>0.5</td>
</tr>
<tr>
<td>Intro to Computer Applications</td>
<td>0.5</td>
</tr>
<tr>
<td>Health—Online Course</td>
<td>0.5</td>
</tr>
<tr>
<td>ACT Preparation – free ACT Prep leading up to the June National ACT Testing date. This course concludes the day prior to this testing date.</td>
<td>No Credit</td>
</tr>
</tbody>
</table>

Sessions usually run during the month of June and end before the July 4th holiday. For additional High School Summer Credit Advancement information, please contact a high school Counselor’s office, email the district summer school administrator at FHSDsummerschool@fhsdschools.org, or call (636) 851-4012.
PLTW College Credit Options

IMPORTANT - Students who complete PLTW courses have the option of earning college credit provided that students meet criteria established by universities. Students are strongly encouraged to contact prospective universities to find out if they award credit for PLTW courses. Furthermore, students pursuing this option should check with their prospective universities to see how credits would transfer. Students are encouraged to visit https://www.pltw.org/experience-pltw/student-opportunities to search for colleges and universities that award credit. The options detailed below are only a small subset of the institutions that offer credit.

<table>
<thead>
<tr>
<th>PLTW Path: Engineering</th>
<th>Missouri University of Science &amp; Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLTW Course(s)</td>
<td>Criteria</td>
</tr>
</tbody>
</table>
| Principles of Engineering | 1. Complete 2 PLTW courses:  
● Principles of Engineering  
● Introduction to Engineering Design | To view the complete process, visit http://pltw.mst.edu/undergradcredit/undergradcredit/  
1. Complete Application [see link] |
| Introduction to Engineering Design | 2. Earn a “B” in both courses & score a 6 on the PLTW end-of-course exam for each  
3. Pay the $200 fee | 2. Submit completed application & check to your school counselor  
3. Counselor sends application, payment, & transcript to Missouri S & T |
| Digital Principles & Applications | Students can receive credit for a three-hour class (MECH ENG 1720) through meeting all criteria and completing both of the courses listed above. | 

<table>
<thead>
<tr>
<th>PLTW Path: Engineering</th>
<th>University of Central Missouri</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLTW Course(s)</td>
<td>Criteria</td>
</tr>
</tbody>
</table>
| Principles of Engineering | 1. Complete a PLTW course:  
● Introduction to Engineering Design  
● Principles of Engineering  
● Digital Principles & Applications | To view the complete process, visit https://www.ucmo.edu/future-students/early-college-programs/project-lead-the-way/  
1. Complete Application (see link)  
2. Complete a W9 form (see link)  
3. Have your PLTW teacher complete the Cooperative Agreement (see link)  
4. Obtain a copy of your official high school transcript  
5. Mail your application, teacher documents, transcripts, and full payment to UCM. |
| Introduction to Engineering Design | 2. Earn a “B” in the course & score a 6 on the PLTW end-of-course exam  
3. Pay the $255 fee for each course | |
| Digital Principles & Applications | Students can receive three hours of credit for each course listed above. | |

<table>
<thead>
<tr>
<th>PLTW Program: Biomedical Sciences</th>
<th>Missouri University of Science &amp; Technology</th>
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<tbody>
<tr>
<td>PLTW Course(s)</td>
<td>Criteria</td>
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</tbody>
</table>
| Principles of Biomedical Sciences | 1. Complete a PLTW course:  
● Principles of Biomedical Sciences  
● Human Body Systems  
● Medical Interventions  
● Biomedical Innovation | To view the complete process, visit http://pltw.mst.edu/undergradcredit/undergradcredit/  
1. Complete Application (see link)  
2. Submit completed application & check to your school counselor  
3. Counselor sends application, payment, & transcript to Missouri S & T |
| Human Body Systems | 2. Earn a “B” in the course & score a 6 on the PLTW end-of-course exam  
3. Pay the $250 fee for each course | |
| Medical Interventions | | |
| Biomedical Innovation | | |
| Students can receive three hours of credit for each course listed above. | | |

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<tr>
<th>PLTW Program: Computer Science</th>
<th>Missouri University of Science &amp; Technology</th>
</tr>
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<tbody>
<tr>
<td>PLTW Course(s)</td>
<td>Criteria</td>
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</tbody>
</table>
| Principles of Engineering | 1. Complete a PLTW course:  
● Principles of Engineering  
● Introduction to Engineering Design | To view the complete process, visit http://pltw.mst.edu/undergradcredit/undergradcredit/  
1. Complete Application (see link)  
2. Submit completed application & check to your school counselor  
3. Counselor sends application, payment, & transcript to Missouri S & T |
| Introduction to Engineering Design | 2. Earn a “B” in the course & score a 6 on the PLTW end-of-course exam  
3. Pay the $200 fee for each course | |

Missouri S & T only awards credit for PLTW Computer Science courses if they are paired with PLTW Principles of Engineering or PLTW Introduction to Engineering Design. Students interested in this course of action are encouraged to contact Missouri University of Science & Technology directly at 573-341-4148 or at pltw@mst.edu.