Dear Parents and Students:

This career and educational planning guide contains a wealth of information to assist in organizing and implementing a plan for your high school career and beyond. The career cluster information offers a range of possible careers for each student to consider. Parents can use the career cluster information to discuss career opportunities with their children.

Student course selection is extremely important. Schedule changes can be very difficult and/or denied; therefore, students and parents should carefully consider course selections to ensure the most appropriate choices for students. Please refer to the information outlining post-secondary requirements and expectations to guide course decisions. Regardless of the post-secondary path a student chooses, a rigorous course of study will be necessary to prepare the student for the challenges he/she will face after high school. The teachers, counselors, and administration are available to assist students and parents as they make course decisions. Please do not hesitate to ask for this assistance.

Sincerely,

Raymore-Peculiar Secondary Administration

Steven Miller, Principal
Raymore-Peculiar High School, PO Box 789, Peculiar, MO 64078
The Career & Educational Planning Guide is available on-line:
http://www.raypec.k12.mo.us

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STATEMENT OF PURPOSE
The purpose of Raymore-Peculiar High School is to provide a safe, caring, and dynamic learning environment where all students are prepared to be responsible, productive, self-sufficient citizens.

RPHS VISION STATEMENT
Turning Today’s Learners into Tomorrow’s Leaders

RPHS MISSION STATEMENT
It is the mission of Raymore-Peculiar High School to prepare ALL students for a successful and meaningful life in a global society by providing them with opportunities to nurture their own unique abilities and to empower them with life-long learning skills so as to be responsible, productive citizens.

www.actstudent.org

ACT Test Dates
September 7, 2019
October 26, 2019
December 7, 2019
February 8, 2020
April 11, 2020
June 6, 2020
July 11, 2020

The Raymore-Peculiar School District also offers evening classes to help students succeed on the ACT.
Frequently Asked Questions

What happens if I fail a semester of a required full year (2 semester) course?
It depends on the course failed and which semester it was. If it was a first semester Algebra, Geometry or Algebra II course, then the student would be placed back into a first semester equivalent class during the second semester. In other subjects, options include: summer school, credit for completion, Launch credit recovery or repeating the course during the next year of high school.

May I get extra credit through summer school or correspondent courses?
Yes. Please refer to board policies pertaining to this.

What happens if I withdraw from a class before the end of the semester?
You will receive an "F" on your transcript.

May I change my schedule at semester if I don’t like a class I am taking?
No, unless it is for reasons listed in the student handbook.

What is the number of credits needed to graduate from high school?
26

Do any classes which I took in middle school count toward high school credit?
Students who pass 8th grade Algebra 8 with a C- or better will be eligible to earn course credit (1 credit per course) towards high school graduation. Math credit will be awarded after a student successfully completes 3 math credits in grades 9-12. Students who are in the class of 2019 and beyond with no grade lower than a C- in Spanish I (taken in 8th grade) will be eligible to earn course credit (1 credit) toward high school graduation. Spanish credit will be awarded after a student successfully completes 2 foreign language credits in grades 9-12. Beginning with the class of 2020, French I credit may also be earned in the same way as Spanish.

Can I earn college credit while in high school?
Yes, students have the opportunity to enroll in several dual-credit classes or certain scores on AP/IB exams could earn students college credit.

How do I join a club?
Please see our Activities director or Activities secretary for contact information of the club sponsor.

What is Dual Enrollment?
Broadly defined as any situation in which an individual is concurrently enrolled at both a secondary (high school) and post-secondary (college or university) institution. However, the term is frequently used to distinguish from dual credit courses and used to identify situations in which a high school student enrolls in a college course for college credit only. Applications and more information is available in the counseling office.

What is Dual Credit?
A dual credit course is a college course taken by a high school student for which the student is awarded both college and high school credit.

NON-DISCRIMINATION STATEMENT
In accordance with the provisions of the Americans with Disabilities Act of 1990, Title VI of the Civil Rights Act of 1964 (as amended), Title IX of the Educational Amendments of 1972, P.L. 93-112, and Section 504 of the Rehabilitation Act of 1973 and the regulations there under, it is the policy of Raymore-Peculiar R-II School District that no person shall, because of age, sex, race, disability, or national origin be excluded from participation in, be denied the benefits of, or subjected to discrimination under any education program or activity of the District, including the employment of staff personnel.

Written district policies concerning the rights and responsibilities of employees and students are available for inspection at the administrative office of the district.

Inquiries by persons about their protection against discrimination under the Americans with Disabilities Act, Title IX, Title VI, or PL 93-112 and section 504 may be directed in writing or by telephone to:

Director of Human Resources - Raymore-Peculiar R-II School District
21005 S. School Road, Peculiar, MO 64078
816-892-1300 FAX: 816 892-1380
# RAYMORE-PECULIAR HIGH SCHOOL COURSE GRADUATION REQUIREMENTS

<table>
<thead>
<tr>
<th>CURRICULAR AREAS</th>
<th>Graduation Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUNICATION SKILLS</td>
<td>4 units (Must include 1 unit in a core English class for each grade 9-12)</td>
</tr>
<tr>
<td>SOCIAL STUDIES</td>
<td>3 units (Must include 1 unit Am. History, 1 unit World History, 1 unit American Government)</td>
</tr>
<tr>
<td>MATHEMATICS</td>
<td>3 units (Recommended to include 1 unit Algebra I and 1 unit Geometry and 1 unit of Algebra II)</td>
</tr>
<tr>
<td>SCIENCE</td>
<td>3 units (Must include 1 unit Biology I or Adv. Biology I and it is recommended to have 1 unit of a physical science (such as Chemistry, Physics, Physical Science))</td>
</tr>
<tr>
<td>FINE ARTS</td>
<td>1 unit</td>
</tr>
<tr>
<td>PRACTICAL ARTS</td>
<td>½ unit</td>
</tr>
<tr>
<td>PHYSICAL EDUCATION</td>
<td>1 unit</td>
</tr>
<tr>
<td>PERSONAL FINANCE</td>
<td>1/2 unit</td>
</tr>
<tr>
<td>HEALTH</td>
<td>1/2 unit</td>
</tr>
<tr>
<td>ELECTIVES</td>
<td>9.5 units</td>
</tr>
<tr>
<td>Totals</td>
<td>26 units</td>
</tr>
</tbody>
</table>

*There may be circumstances that would require exceptions to the above graduation requirements. Any exceptions would require approval of the school administration.*
### Minimum Post-High School Admissions Requirements

<table>
<thead>
<tr>
<th>AREAS</th>
<th>University of Missouri System Credit Requirements</th>
<th>4 Year Colleges (UCM, MSU) Credit Requirements</th>
<th>Technical Colleges</th>
<th>Careers</th>
<th>Apprenticeship</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUNICATION SKILLS</td>
<td>4 Units</td>
<td>4 Units</td>
<td></td>
<td>High School Diploma</td>
<td>Most Require a High School Diploma or a GED and must be at least 18 years of age</td>
</tr>
<tr>
<td>SOCIAL STUDIES</td>
<td>3 Units Govt ½</td>
<td>3 Units Govt ½</td>
<td></td>
<td>High School Diploma, GED, or a Completion of Home School Program</td>
<td></td>
</tr>
<tr>
<td>MATHEMATICS</td>
<td>4 Units Alg I &amp; Higher</td>
<td>3 Units Alg I &amp; Higher</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCIENCE</td>
<td>3 Units 2 of 3 from Bio, Chem, Physics &amp; Earth Science</td>
<td>3 Units No General Science 1 must be a lab class</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FINE ARTS</td>
<td>1 Unit</td>
<td>1 Unit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRACTICAL ARTS</td>
<td>0 Units</td>
<td>0 Units</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYSICAL EDUCATION</td>
<td>0 Units</td>
<td>0 Units</td>
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<tr>
<td>ELECTIVES</td>
<td>5 Units</td>
<td>6 Units</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADDITIONAL ELECTIVES</td>
<td>2 Units 2 Years of the same foreign language</td>
<td>3 Units selected from foreign language &amp;/or core courses</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTALS</td>
<td>22 Units Plus appropriate class rank and a minimum score of 24 on ACT</td>
<td>23 Units Plus appropriate class rank and ACT score</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
GETTING INVOLVED

To get the most out of school, decide to be involved. The more you are involved in activities, the better your grades and performance will be. Activities and academics equal excellence in education.

INTERSCHOLASTIC ATHLETICS

Sports are part and parcel of every school curriculum because we realize that the ancient goal of a healthy mind in a healthy body is no fantasy, but a realistic and attainable goal. The playing fields of today have a place for strength, it is true, but as anyone who has ever taken time to find out knows, and knows well, they have no place for mindless strength. Sports, as they are practiced in our school, require quick, intelligent minds as well as healthy, trained, and conditioned bodies.

Therefore, it is the philosophy of Raymore-Peculiar High School to encourage each of you to participate in a variety of activities and not limit yourselves in your potential growth and learning experiences.

Classification and Conference Members
For the 2019-2020 school year, we will be competing in the Suburban Gold Division Conference.

Scholastic Eligibility
In order to enjoy the privilege of participating in interscholastic activities, you must meet academic standards established by the Missouri State High School Activities Association (MSHSAA) and the Ray-Pec School District.

Semester Eligibility
You must have attempted and passed a minimum of six classes (3 credits) the previous term to be eligible for the current term.

To Participate in Athletics
If you want to participate in athletics at Raymore-Peculiar High School you must have the following forms (turned in to the coach or Activities Director) prior to practicing:
- Physical Exam (yearly)
- Athletic Insurance
- Consent form signed by parent/guardians and students
- Catastrophic Insurance Fee
- Activity fee
- Student Activities handbook

MSHSAA Sponsored Athletics/Activities

Offered at RPHS

Fall Season
- Boys/Girls Cross Country
- Football
- Girls Softball
- Boys Soccer
- Volleyball
- Girls Tennis
- Girls Golf
- Boys Swimming

Winter Season
- Boys/Girls Basketball
- Girls Swimming
- Wrestling

Spring Season
- Baseball
- Boys Golf
- Girls Soccer
- Boys Tennis
- Boys/Girls Track

Year Long Activities
- Cheerleading
- Forensics
- Instrumental Music
- Dance Team
- Vocal Music

CLUBS AND SCHOOL SPONSORED ACTIVITIES

Why become involved in activities anyway? They build self-respect, self-esteem, self-confidence and the value of teamwork.

The following clubs and activities will be offered during the 2019-2020 school year.

- Technology Student Association
- SADD
- Art Club
- DECA
- Drama Club
- FBLA
- FCCLA
- National Honor Society
- Red Cross Club
- Robotics Club
- Scholar Bowl
- Student Senate
- Industrial Tech
- Bowling
- Trap Shooting
- National Forensics League
- Student Athletic Trainers
- Special Olympics
- No Place FOR Hate
- GSA
- Peer Mediators
- Community Outreach Corp
- Environmental Club
- FDIM
- French Club
- Japanese Club
- K.A.R.E.
- Rebel
- Spanish Club
NCAA Division I Initial-Eligibility Requirements

Core Courses: (16)

- Initial full-time collegiate enrollment before August 1, 2017:
  - Sixteen (16) core courses are required (see chart below for subject-area requirements).

- Initial full-time collegiate enrollment on or after August 1, 2017:
  - Sixteen (16) core courses are required (see chart below for subject-area requirements).
    - Ten (10) core courses completed before the seventh semester; seven (7) of the 10 must be in English, math or natural/physical science.
    - These courses/grades are "locked in" at start of the seventh semester (cannot be repeated for grade-point average [GPA] improvement to meet initial-eligibility requirements for competition).
  - Students who do not meet core-course progression requirements may still be eligible to receive athletics aid and practice in the initial year of enrollment by meeting academic redshirt requirements (see below).

Test Scores: (ACT/SAT)

- Students must present a corresponding test score and core-course GPA on the sliding scale (see Page No. 2).
  - SAT: critical reading and math sections.
    - Best subscore from each section is used to determine the SAT combined score for initial eligibility.
  - ACT: English, math, reading and science sections.
    - Best subscore from each section is used to determine the ACT sum score for initial eligibility.
  - All ACT and SAT attempts before initial full-time collegiate enrollment may be used for initial eligibility.
  - Enter 9999 during ACT or SAT registration to ensure the testing agency reports your score directly to the NCAA Eligibility Center. Test scores on transcripts will not be used.

Core Grade-Point Average:

- Only core courses that appear on the high school’s List of NCAA Courses on the NCAA Eligibility Center’s website (www.eligibilitycenter.org) will be used to calculate your core-course GPA. Use this list as a guide.

- Initial full-time collegiate enrollment before August 1, 2017:
  - Students must present a corresponding test score (ACT sum score or SAT combined score) and core-course GPA (minimum 2.000) on Sliding Scale A (see Page No. 2).
  - Core-course GPA is calculated using the best 16 core courses that meet subject-area requirements.

- Initial full-time collegiate enrollment on or after August 1, 2017:
  - Students must present a corresponding test score (ACT sum score or SAT combined score) and core-course GPA (minimum 2.300) on Sliding Scale B (see Page No. 2).
  - Core-course GPA is calculated using the best 16 core courses that both meet progression (10 before seventh semester; seven in English, math or science; "locked in") and subject-area requirements.

<table>
<thead>
<tr>
<th>DIVISION I</th>
<th>Core-Course Requirement (16)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>years of English</td>
</tr>
<tr>
<td>3</td>
<td>years of math (Algebra I or higher)</td>
</tr>
<tr>
<td>2</td>
<td>years of natural/physical science (1 year of lab if offered)</td>
</tr>
<tr>
<td>1</td>
<td>year of additional English, math or natural/physical science</td>
</tr>
<tr>
<td>2</td>
<td>years of social science</td>
</tr>
<tr>
<td>4</td>
<td>years of additional courses (any area above, foreign language or comparative religion/philosophy)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DIVISION I – 2017</th>
<th>Qualifier Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Athletics aid, practice, and competition</em></td>
<td></td>
</tr>
<tr>
<td>16 core courses</td>
<td></td>
</tr>
<tr>
<td>o Ten (10) core courses completed before the start of seventh semester; Seven (7) of the 10 must be in English, math or natural/physical science.</td>
<td></td>
</tr>
<tr>
<td>&quot;Locked in&quot; for core-course GPA calculation.</td>
<td></td>
</tr>
<tr>
<td>Corresponding test score (ACT sum score or SAT combined score) and core-course GPA (minimum 2.300) on Sliding Scale B (see Page No. 2).</td>
<td></td>
</tr>
<tr>
<td>Graduate from high school.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DIVISION I – 2017</th>
<th>Academic Redshirt Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Athletics aid and practice (no competition)</em></td>
<td></td>
</tr>
<tr>
<td>16 core courses</td>
<td></td>
</tr>
<tr>
<td>o No grades/credits &quot;locked in&quot; (repeated courses after the seventh semester begins may be used for initial eligibility).</td>
<td></td>
</tr>
<tr>
<td>Corresponding test score (ACT sum score or SAT combined score) and core-course GPA (minimum 2.000) on Sliding Scale B (see Page No. 2).</td>
<td></td>
</tr>
<tr>
<td>Graduate from high school.</td>
<td></td>
</tr>
<tr>
<td>Core GPA</td>
<td>SAT Verbal and Math ONLY</td>
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<tr>
<td>3.550 &amp; above</td>
<td>400</td>
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<tr>
<td>3.525</td>
<td>410</td>
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<td>3.500</td>
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</table>

For more information, visit www.eligibilitycenter.org or www.2point3.org.
Division II Initial-Eligibility Requirements

Core Courses
- **Division II currently requires 16 core courses.** See the chart below.
- **Beginning August 1, 2018,** to become a full or partial qualifier for Division II, all college-bound student-athletes must complete the 16 core-course requirement.

Test Scores
- **Division II** currently requires a minimum SAT score of 820 or an ACT sum score of 68. **Beginning August 1, 2018,** Division II will use a sliding scale to match test scores and core-course grade-point averages (GPA). The sliding scale for those requirements is shown on Page No. 2 of this sheet.
- The SAT score used for NCAA purposes includes **only** the critical reading and math sections. The writing section of the SAT is not used.
- The ACT score used for NCAA purposes is a **sum** of the following four sections: English, mathematics, reading and science.
- **When you register for the SAT or ACT,** use the NCAA Eligibility Center code of 9999 to ensure all SAT and ACT scores are reported directly to the NCAA Eligibility Center from the testing agency. **Test scores that appear on transcripts will not be used.**

Grade-Point Average
- Be sure to look at your high school’s List of NCAA Courses on the NCAA Eligibility Center’s website (www.eligibilitycenter.org). Only courses that appear on your school’s approved List of NCAA Courses will be used in the calculation of the core GPA. Use the list as a guide.
- The current **Division II** core GPA requirement is a minimum of 2.000. **Division II** core GPA required to be eligible for competition **on or after August 1, 2018,** is 2.200 (corresponding test-score requirements are listed on the Sliding Scale on Page No. 2 of this sheet).
- The minimum **Division II** core GPA required to receive athletics aid and practice as a partial qualifier **on or after August 1, 2018,** is 2.000 (corresponding test-score requirements are listed on the Sliding Scale on Page No. 2 of this sheet).
- Remember, the NCAA core GPA is calculated using NCAA core courses only.

<table>
<thead>
<tr>
<th>DIVISION II 16 Core Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 years of English.</td>
</tr>
<tr>
<td>2 years of mathematics (Algebra I or higher).</td>
</tr>
<tr>
<td>2 years of natural/physical science (1 year of lab if offered by high school).</td>
</tr>
<tr>
<td>3 years of additional English, mathematics or natural/physical science.</td>
</tr>
<tr>
<td>2 years of social science.</td>
</tr>
<tr>
<td>4 years of additional courses (from any area above, foreign language or comparative religion/philosophy).</td>
</tr>
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</table>
### DIVISION II COMPETITION SLIDING SCALE

*Use for Division II beginning August 1, 2018*

<table>
<thead>
<tr>
<th>Core GPA</th>
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### DIVISION II PARTIAL QUALIFIER SLIDING SCALE

*Use for Division II beginning August 1, 2018*

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</tr>
<tr>
<td>2.000</td>
<td>820 &amp; above</td>
<td>68 &amp; above</td>
</tr>
</tbody>
</table>

For more information, visit the NCAA Eligibility Center website at [www.eligibilitycenter.org](http://www.eligibilitycenter.org).
Panther A+ Program

Background

The Outstanding Schools Act of 1993 established within the Department of Elementary and Secondary Education the “A+ Schools Program” to be administered by the commissioner of education. Raymore-Peculiar began the A+ Program in 1997. The first A+ graduates were in the class of 2000.

Eligibility

To be eligible for the financial incentives of the A+ Schools Program, a student must be certified as an A+ student by the high school. To qualify, the student must meet the following criteria:

- Enter into a written agreement with the high school prior to graduation and have attended an A+ designated school for at least three years.
- Graduate from high school with a cumulative grade point average of 2.5 or higher on a 4.0 non-weighted scale.
- Graduate with at least a 95% cumulative attendance record.
- Perform 50 hours of unpaid tutoring or mentoring of younger students through a school-sponsored program.
- Maintain a record of good citizenship and avoidance of the unlawful use of drugs and alcohol.
- Complete the FAFSA. (http://www.fafsa.gov/)
- Students must score proficient or above on Algebra I EOC exam or Geometry EOC exam or Algebra II EOC exam or a qualifying score on the ACT.

Student Enrollment in A+

- Students are encouraged to enroll in the program early in their freshman year.
- An A+ Letter of Intent must be completed with all appropriate signatures and returned by the deadlines set.
- Anyone requesting A+ Incentives after the beginning of his/her sophomore year must meet all criteria dating back to the beginning of his/her freshman year.
- Seniors must complete all requirements prior to graduation.
- A student may transfer from one A+ designated school to another and maintain A+ eligibility.

Post-Secondary Student Incentives

Qualified A+ graduates will be eligible to receive:

- Tuition (up to $170.75 per credit hour) and general fees to attend any Missouri public community college, vocational or technical school within forty-eight months after graduation from high school.
- Students must be working towards a degree or certificate and be a full-time student.
- The benefit is good for up to 105% of the hours for the program in which the student is enrolled.
- Funding each year is dependent on appropriations from the state legislature.

***Please consult the RPHS A+ website (http://raypeccounselingoffice.weebly.com/a-program.html) or handbook (available in the A+ office) for more specific information about eligibility and procedures.

Local community colleges/technical schools that accept A+ students

- Metropolitan Community Colleges
  (Longview Community College/Penn Valley Community College)/Maple Woods Community College/Blue River Community College)
- State Fair Community College, Sedalia
- Linn State Technical College, Linn
- Ozark Technical Community College, Springfield
- Herndon Area Career Center, Raytown
- Cass Career Center, Harrisonville
- Warrensburg Area Career Center, Warrensburg

*Other eligible community colleges and career and technical schools can be found at: http://dhe.mo.gov/documents/EligibleAplusPostsecondarySchools.pdf
DUAL CREDIT COURSES AVAILABLE

(Advanced courses in which students may earn college credit)

Through the University of Missouri Kansas City, the University of Central Missouri, Metropolitan Community Colleges, or Missouri State.

Students will work with instructor of each course to sign up for college credit. Students/parents are responsible for payment to the college to receive the appropriate college credit for each course. Students should also check with each institution on policies regarding withdrawing from a course and requesting transcript information. Dual credit courses taken in high school may impact future federal financial aid if not successfully completed. Each college or university has a policy for this so please check with each prospective institution. Course offerings are subject to change based on enrollment and staffing.

<table>
<thead>
<tr>
<th>High School courses in which students may earn college credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual Credit Composition &amp; Reading 101</td>
</tr>
<tr>
<td>Dual Credit Composition &amp; Reading 102</td>
</tr>
<tr>
<td>Dual Credit Introduction to Literature 218</td>
</tr>
<tr>
<td>Dual Credit French IV</td>
</tr>
<tr>
<td>Dual Credit French V</td>
</tr>
<tr>
<td>Dual Credit Spanish IV</td>
</tr>
<tr>
<td>Dual Credit Spanish V</td>
</tr>
<tr>
<td>Dual Credit College Algebra</td>
</tr>
<tr>
<td>Dual Credit Trigonometry 130</td>
</tr>
<tr>
<td>Dual Credit Statistics 235</td>
</tr>
<tr>
<td>Dual Credit Analytic Geometry</td>
</tr>
<tr>
<td>Dual Credit Calculus 180</td>
</tr>
<tr>
<td>Dual Credit Computer Concepts &amp; Applications</td>
</tr>
<tr>
<td>Dual Credit Finance</td>
</tr>
<tr>
<td>Dual Credit Western Civilization 133</td>
</tr>
<tr>
<td>Dual Credit Western Civilization 134</td>
</tr>
<tr>
<td>Dual Credit American History 101</td>
</tr>
<tr>
<td>Dual Credit American History 102</td>
</tr>
<tr>
<td>Dual Credit Accounting</td>
</tr>
<tr>
<td>Dual Credit Discovering Theatre</td>
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<tr>
<td>Dual Credit Fundamentals of Speech</td>
</tr>
<tr>
<td>Dual Credit Advanced Debate</td>
</tr>
<tr>
<td>Dual Credit CAD I (Pending MCC Approval)</td>
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Specific courses at Summit Technology and Cass Career Center are also available for dual credit. Please refer to individual course descriptions for more information.

ADVANCED PLACEMENT COURSES AVAILABLE

<table>
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<tr>
<th>AP English: Literature &amp; Composition</th>
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<tbody>
<tr>
<td>AP English Language &amp; Composition</td>
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<tr>
<td>AP World History</td>
</tr>
<tr>
<td>AP United States Government &amp; Politics</td>
</tr>
<tr>
<td>AP Biology</td>
</tr>
<tr>
<td>AP Studio Art</td>
</tr>
<tr>
<td>AP Music Theory</td>
</tr>
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</table>

Academic Seminar Advanced Courses

Academic seminar offers students in advanced courses the ability to work on AP, IB, or dual-credit courses during the day. This course may be repeated but is not worth credit. Students may not take Academic Seminar and Teacher/Office Aide in the same semester.

Advanced English II
AP English: Language & Composition
AP English: Literature & Composition
Dual Credit Composition & Reading 101
Dual Credit Composition & Reading 102
Dual Credit Introduction to Literature 218
Dual Credit Spanish IV
Dual Credit Spanish V
IB Spanish IV
IB Spanish V
IB French IV
IB French V
Dual Credit French IV
Dual Credit French V
Advanced Geometry
Algebra II (for sophomore use only)
Advanced Algebra II

Dual Credit College Algebra
Dual Credit Trigonometry 130
Dual Credit Analytic Geometry
AP Studio Art
Dual Credit Statistics 235
Dual Credit Calculus 180
Dual Credit Western Civilization 133
Dual Credit Western Civilization 134
Dual Credit American History 101
Dual Credit American History 102
Dual Credit Accounting
AP US Government & Politics
Advanced American History
AP World History
Advanced Biology
AP Chemistry
Physics
Human Anatomy & Physiology

AP Biology
Astronomy
AP Music Theory
IB Environmental Systems & Societies
IB History of the Americas HL 1/2
IB Psychology SL
IB Visual Arts HL 1
IB Biology HL 1/2
IB Chemistry HL 1/2
IB English HL 1/2
IB Theory of Knowledge 1
IB Mathematics SL 1/2
IB Theatre Arts SL 1 A/B
IB Social & Cultural Anthropology
IB Business Management
IB Psychology HL
IB Film SL
Articulation: Students receive high school credit only. However, college credit is available through a written agreement between the high school and the College. Articulated college credit is awarded to students who successfully complete course/program while in high school and complete additional coursework at the Metropolitan Community Colleges that meets the requirements of the Articulation Agreement for the program in which the student was enrolled.

Advanced Placement Classes: Most four-year colleges in the United States and colleges in more than 60 other countries give students credit, advanced placement or both on the basis of AP Exam scores taken during high school. Individual colleges and universities, not the College Board or the AP Program, grant course credit and placement. You should obtain a college’s AP policy in writing. You can usually find this information through the institution directly or by using the AP Credit Policy Info search at www.collegeboard.org/ap/creditpolicy.

Dual credit: Dual credit courses enable high school students to receive, simultaneously, both high school and college-level course credit. They provide high-performing high school students an affordable opportunity to experience high-quality college-level courses. Dual credit courses may be taught by full time college faculty who instruct high school students either on campus or in the high school via on-site instruction or interactive television. Dual credit courses may also be taught using the same modes of delivery by adjunct faculty who may teach part time both on the college campus and at the high school site. However, the large majority of dual credit courses are taught by high school faculty with supervision on campus college faculty.

Dual enrollment: Dual enrollment courses enable high school students to receive, simultaneously, both high school and college-level course credit. Students take the courses online at RPHS during the regular school day in an academic seminar setting. Dual enrollment courses are taught by full time college faculty members. These courses provide high-performing students an affordable opportunity to experience high-quality college-level coursework. In order for a student to earn an Associate of Art (AA) degree through the Early College Program, students must enroll in approximately 20 credit hours of dual enrollment. For more information on the AA degree program, please refer to pages 77-79. Specific requirements can be acquired from your school counselor.

Missouri Course Access and Virtual School Program (MOCAP)
MOCAP was established in 2007 as the state’s online school. It was previously known as Missouri Virtual Instruction Program (MOVIP). Currently, MOCAP offers courses for 9th through 12th grade and plans to expand to grades K-12. Students can take courses from any Internet-connected computer, available 24-hours a day, seven days a week. MOCAP’s mission is to offer Missouri students equal access to a wide range of high quality courses, and interactive online learning that is neither time nor place dependent. MOCAP students are guided through courses by Missouri-certified teachers. Courses are delivered over the Internet. To assure student success with online learning, a variety of technology resources (streaming audio and video, computer animations, email, live chats, etc.) are provided. Teachers communicate with students and parents on a regular basis via email, phone, online messaging, etc. A student should plan to spend at least one hour a day, five days a week, on each course. For additional information, please ask your guidance counselor for the Online Course Student/Parent Handbook.

Raymore Peculiar’s preferred online provider is Launch. All online course work will be taken through this provider.

Weight Grades and Weighted Classes: For the classes of 2019-2021, students will be offered an opportunity for weighted credit in Advanced Placement (AP) courses, International Baccalaureate (IB) courses, and dual credit courses based on the following criteria:

- In AP courses, for the purpose of calculated weighted GPA, 1 GPA point will be added to the student’s course GPA with a passing grade and completion of the AP exam.
- In IB courses, for the purpose of calculated weighted GPA, 1 GPA point will be added to the student’s course GPA with a passing grade and completion of the IB exam.
- In dual credit courses, for the purpose of calculated weighted GPA, 1 GPA point will be added to the student’s course GPA with a passing grade.

Beginning with the Class of 2022
- AP Courses, Dual Credit Courses (except for Calculus), and Level 1 IB courses (IB courses that are only part of a one-year sequence) will continue to receive an additional weight of 1.00 GPA point per semester course taken. NOTE: AP Courses will only receive weight pending the successful completion of the AP Exam for the course.
- Theory of Knowledge, which is provided only for IB Diploma candidates, will receive an additional weight of 1.00 GPA point per semester.
- Calculus and Level 2 IB courses (IB courses that are the second year of a two-year sequence) will receive an additional weight of 1.333 GPA Points per semester course taken, pending completion of the IB test for the course.
- No additional grade points will be awarded in any weighted course for a letter grade below a C-
The International Baccalaureate (IB) program is a two-year curriculum and assessment program practiced and respected around the world. Founded in 1968, the IB works with 3,290 schools in 141 countries to develop and offer three challenging programs to over 969,000 students aged 3 to 19 years. In the US, 743 high schools are IB world schools. The IB encourages students to be active learners and well-rounded individuals.

International Baccalaureate courses allow those students who value the challenges of academically rigorous studies an opportunity to add depth, scope, and global emphasis to their high school education. Those IB diploma and certificate students who have participated in this program often find the rigor and unique nature of their studies to be not only a broadening educational high school experience, but also to be exceptional preparation for their college or university studies.

Most IB classes are two years long, while others are one year. Students can choose to take one or multiple classes depending on their strengths and interests, or they can choose to do the full IB Diploma Program that requires students to take seven IB courses, write a 4,000-word research essay, and complete a service project. Depending on where they go to college, students can potentially earn college credit for the IB classes they take.

<table>
<thead>
<tr>
<th>Group 1: Language A</th>
<th>Subject</th>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
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<tbody>
<tr>
<td>English</td>
<td>Advanced English 1</td>
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<td>IB English HL 1</td>
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<table>
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<th>Group 2: Second Language</th>
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<tbody>
<tr>
<td>Spanish</td>
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<td>Spanish II</td>
<td>Spanish III</td>
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<th>Group 3: Individuals and Society</th>
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<tbody>
<tr>
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<td>History of the Americas HL 2</td>
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<table>
<thead>
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<tr>
<td>Chemistry</td>
<td>Advanced Biology</td>
<td>Advanced Chemistry</td>
<td>IB Chemistry SL 1</td>
<td>IB Chemistry SL 2</td>
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<tr>
<td>Environment</td>
<td>Advanced Biology</td>
<td>Advanced Chemistry</td>
<td>IB Environmental Systems</td>
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<table>
<thead>
<tr>
<th>Group 5: Mathematics</th>
<th>Subject</th>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
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<tbody>
<tr>
<td>Math</td>
<td>Advanced Geometry</td>
<td>Advanced Algebra II</td>
<td>IB Math SL 1</td>
<td>IB Math SL 2</td>
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<tr>
<td>Math</td>
<td>Advanced Geometry</td>
<td>Advanced Algebra II</td>
<td>IB Math SL 1</td>
<td>IB Math Studies SL 2</td>
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<table>
<thead>
<tr>
<th>Group 6: Electives</th>
<th>Subject</th>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
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<tbody>
<tr>
<td>Visual Arts</td>
<td>Art Foundations</td>
<td>Level 3 and 4 Classes</td>
<td>Visual Arts SL 1</td>
<td>Visual Arts SL 2</td>
<td></td>
</tr>
<tr>
<td>Psychology</td>
<td></td>
<td>IB Psychology SL 1</td>
<td>IB Psychology SL 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Theater</td>
<td>Intro to Theater or Intro to Comp. Theater</td>
<td>Acting or Adv. Comp. Theater</td>
<td>IB Theater SL 1</td>
<td>IB Theater SL 2</td>
<td></td>
</tr>
<tr>
<td>Film</td>
<td></td>
<td>IB Film SL</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Business</td>
<td>Business Essentials</td>
<td>Marketing I</td>
<td>IB Business Management SL</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Career Paths

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

Benefits

Deciding on a career path can assist you in exploring your interests and preparing for your future. The intent is not for you to decide on a specific occupation for the rest of your life, but to select a career path into which you can begin directing your energies. Identifying a career path can help you in selecting school courses, activities, and part-time employment. It can also help guide your participation in job shadowing, career exploration and internships. A career path choice is not a permanent commitment. As you have new experiences, you learn new things about yourself and may decide to change career paths. If you decide on a different career path to explore, you should discuss it with your counselor and adjust your future course selections in accordance with your new career exploration.

Career Exploration Assessments

Raymore-Peculiar High School students complete career exploration assessments starting in the 8th grade. This is a way the student can identify an initial career path choice. Counselors and advisors will then use this information to assist students in making course selections and developing a plan of study.

CHOOSING A CAREER PATH OR CLUSTER

1. Identify your interests, abilities, and talents.
2. Identify the career path or cluster that relates to your interests, abilities, and talents.
3. Explore occupations in those career paths or clusters.
4. Decide how much education you want to receive after high school.
5. Develop a personal plan of study by selecting courses and co-curricular activities that relate to your career educational and career goal.

Career Planning Common Language

Individual Planning Vocabulary

Guidance and Counseling
Missouri Department of Elementary and Secondary Education
August, 2011

Definition and Purpose:

1. **Guidance Grade Level Expectations (GLEs):** The systematic, sequential and developmentally appropriate set of knowledge, skill and understanding for the K-12 guidance curriculum.
2. **Life Career Development:** Self-development over the life span through the integration of roles, settings, and events of a person's life.
3. **Individual Planning:** The process of on-going educational and career-planning services that helps all students develop personal plans of study organized around programs of study and their personal, career, and educational goals.
4. **Personal Plan of Study (PPOS):** A student's scope and sequence of course work and related activities based upon their chosen Career Path or Career Cluster and their educational goals. Initiated in the eighth grade, it is designed to insure a successful post-secondary transition. The key component of the Individual Planning process.
5. **Program of Study (POS):** Secondary-to-postsecondary sequences of academic and career education course work, along with additional learning opportunities, that lead students to attain a postsecondary degree or industry-recognized certificate or credential.
   a. **Process:** Missouri currently uses a 10 step process for the development of Programs of Study that is aligned with federal guidelines which includes creation of POS templates and secondary/post-secondary curriculum alignment. This process is currently under review at the state level.
   b. **Template:** The model or form developed by schools that lists courses, occupations and additional learning opportunities to help students develop their personal plan of study. The completion of the POS template does not infer that the POS process has been completed.
6. **Career Paths (6) Clusters (16) Career Pathways (78):** A progressive framework to organize the world of work and career information. The framework provides the structure to assist students in understanding the world of work, and to organize course and co-curricular offerings in the school.
7. **Naviance Student:** A free web-based career and educational planning resource to help Ray-Pec students and families determine their career interests, explore occupations, establish education plans, develop job search strategies, and create résumés.
CAREER PREPARATION
CHOICES AFTER HIGH SCHOOL

HIGH SCHOOL

WORK
On-the-Job Training
Apprenticeship

SCHOOLS & PROGRAMS
College of Education
Community/Technical Colleges
Vocational/Technical Schools

MILITARY
College Financial Assistance

MY CAREER

ADMISSIONS OFFICES FOR MISSOURI PUBLIC FOUR-YEAR INSTITUTIONS

University of Central Missouri
Ward Edwards 1400
Warrensburg, MO 64093
877-729-8256
www.ucmo.edu

Missouri Western State College
4525 Downs Drive
St. Joseph, MO 64507
800-662-7041
www.missouriwestern.edu

Truman State University
100 E. Normal
Kirkville, MO 63501
660-785-4114
www.truman.edu

University Missouri-St. Louis
351 Millennium Student Center
St. Louis, MO 63121
800-462-8675
www.umsl.edu

Harris-Stowe State University
3026 LaClede Avenue
St. Louis, MO 63103
314-340-3300
www.hssu.edu

Northwest Missouri State University
800 University Drive
Maryville, MO 64468
660-562-1148
www.nwmissouri.edu

University of Missouri - Columbia
130 Jesse Hall
Columbia, MO 65211
800-225-6075
www.missouri.edu

Lincoln University
820 Chestnut
Jefferson City, MO 65102
573-681-5599
www.lincoln.edu

Southeast Missouri State University
One University Plaza
Cape Girardeau, MO 63701
573-651-2590
www.semo.edu

University of Missouri - Kansas City
5100 Rockhill Road
Kansas City, MO 64110
816-235-1111
www.umkc.edu

Missouri Southern State University
3950 East Newman Road
Joplin, MO 64801
417-625-9743
www.mssu.edu

Missouri State University
901 South National
Springfield, MO 65804
800-492-7900
www.missouristate.edu

University of Missouri - Science & Technology
1870 Miner Circle
Rolla, MO 65401
800-522-9038
www.mst.edu

Metropolitan Community Colleges
www.mcckc.edu

Blue River
20301 East 78th Hwy
Independence, MO 64057
816-604-6500

Longview
500 SW Longview Road
Lee's Summit, MO 64081
816-604-2000

Maple Woods
2601 NE Barry Road
Kansas City, MO 64156
816-604-3000

Penn Valley
3201 SW Trafficway
Kansas City, MO 64111
816-604-4000

Business & Technology
1775 Universal Ave
Kansas City, MO 64120
816-604-5200
### Local Union and Labor Department Contacts

<table>
<thead>
<tr>
<th>Organization</th>
<th>Phone</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Agriculture</td>
<td>816-926-6502</td>
<td><a href="http://www.usda.gov">www.usda.gov</a></td>
</tr>
<tr>
<td>American Nurses Association</td>
<td>800-274-4262</td>
<td><a href="http://www.nursingworld.org">www.nursingworld.org</a></td>
</tr>
<tr>
<td>Auto Workers Local 31</td>
<td>913-342-7330</td>
<td><a href="http://www.uaw.org">www.uaw.org</a></td>
</tr>
<tr>
<td>BCTGM Union -Bakery, Confectionary, Tobacco Workers &amp; Grain Miller</td>
<td>816-474-9722</td>
<td><a href="http://www.bctgm.org">www.bctgm.org</a></td>
</tr>
<tr>
<td>International Brotherhood Boilermakers</td>
<td>816-523-8300</td>
<td><a href="http://www.boilermakers.org">www.boilermakers.org</a></td>
</tr>
<tr>
<td>Bricklayers Local #15</td>
<td>816-241-6695</td>
<td>baclocal15.org</td>
</tr>
<tr>
<td>Associated Builders &amp; Contractors</td>
<td>913-831-2221</td>
<td><a href="http://www.abc.org">www.abc.org</a></td>
</tr>
<tr>
<td>Building &amp; Construction Trade Dept</td>
<td>816-836-8485</td>
<td><a href="http://www.bctd.org">www.bctd.org</a></td>
</tr>
<tr>
<td>Carpenters Union District Council</td>
<td>816-931-3414</td>
<td><a href="http://www.carpdc.org">www.carpdc.org</a></td>
</tr>
<tr>
<td>Communications Worker of America</td>
<td>816-842-6327</td>
<td><a href="http://www.cwa-union.org">www.cwa-union.org</a></td>
</tr>
<tr>
<td>American Culinary Federation</td>
<td>913-469-8500</td>
<td><a href="http://www.acfcchef.org">www.acfcchef.org</a></td>
</tr>
<tr>
<td>IBEW Electrical Workers Local 1613</td>
<td>816-241-1613</td>
<td><a href="http://www.ibew1613.org">www.ibew1613.org</a></td>
</tr>
<tr>
<td>Fire Fighters Local 42</td>
<td>816-358-4222</td>
<td><a href="http://www.iaff42.org">www.iaff42.org</a></td>
</tr>
<tr>
<td>Ironworkers Union</td>
<td>816-842-8917</td>
<td><a href="http://www.ironworkers.org">www.ironworkers.org</a></td>
</tr>
<tr>
<td>KC Teamsters</td>
<td>816-924-2000</td>
<td><a href="http://www.teamsters.com">www.teamsters.com</a></td>
</tr>
<tr>
<td>International Association of Machinist &amp; Aerospace Workers Lodge #176</td>
<td>816-393-7070</td>
<td><a href="http://iamaw176.org/index.htm">http://iamaw176.org/index.htm</a></td>
</tr>
<tr>
<td>International Union of Painters &amp; Allied Trade Local 3</td>
<td>816-358-2440</td>
<td><a href="http://www.iupat.org">www.iupat.org</a></td>
</tr>
<tr>
<td>Pipefitters Local 533</td>
<td>816-523-1533</td>
<td><a href="http://www.local533.com">www.local533.com</a></td>
</tr>
<tr>
<td>Roofers Local 20</td>
<td>816-313-9420</td>
<td><a href="http://www.rooferslocal20.com">www.rooferslocal20.com</a></td>
</tr>
<tr>
<td>Sheet Metal Workers Local 2</td>
<td>816-254-8021</td>
<td><a href="http://www.sheetmetal2.org">www.sheetmetal2.org</a></td>
</tr>
<tr>
<td>United Transportation Union</td>
<td>816-822-7453</td>
<td><a href="http://www.utu.org">www.utu.org</a></td>
</tr>
<tr>
<td>Brotherhood of Locomotive Engineers &amp; Trainmen</td>
<td>816-734-0238</td>
<td><a href="http://www.ble-t.org">www.ble-t.org</a></td>
</tr>
<tr>
<td>Missouri Registered Apprenticeship</td>
<td>816-502-9095</td>
<td><a href="http://www.missouriapprenticeship.com">www.missouriapprenticeship.com</a></td>
</tr>
<tr>
<td>Missouri Department of Labor</td>
<td>573-751-4091</td>
<td><a href="http://www.labor.mo.gov">www.labor.mo.gov</a></td>
</tr>
</tbody>
</table>

For employment outlook information the **Occupational Outlook Handbook** can be purchased from the Bureau of Labor Statistics [www.bls.gov](http://www.bls.gov) (see website for price information)

### Military Recruitment Information

<table>
<thead>
<tr>
<th>Service</th>
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<tbody>
<tr>
<td><strong>Army</strong></td>
<td>United States Army</td>
</tr>
<tr>
<td></td>
<td>Kansas City Recruiting Battalion</td>
</tr>
<tr>
<td></td>
<td>10300 NW Prairie View Road</td>
</tr>
<tr>
<td></td>
<td>Kansas City, Missouri 64153-1350</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.goarmy.com">www.goarmy.com</a></td>
</tr>
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| **Marines**   | 17047 Bel-Ray                              |
|               | Belton, MO 64012                           |
|               | 816-348-7563                               |
|               | www.marines.mil                            |

| **Coast Guard** | 6228 NW Barry Rd. & I-29                  |
|                | Kansas City, MO 64154-2530                |
|                | 816-746-9924                              |

| **National Guard** | Missouri National Guard                   |
|                   | 2302 Militia Dr                           |
|                   | Jefferson City, MO 65101                 |
|                   | Local Recruiter 816-922-5008             |
|                   | www.moguard.com                           |

| **Air Force**    | United States Air Force                   |
|                 | 12121 Blue Ridge Ext                      |
|                 | Grandview, MO 64030                       |
|                 | 816-763-1578                              |
|                 | www.airforce.com                          |

| **United States Navy** | Navy Recruiting Station                    |
|                       | 12121-A Blue Ridge Blvd.                  |
|                       | Grandview, MO 64030                       |
|                       | 816-966-0700                              |
Raymore-Peculiar High School Career and Education Planning Guide 2019-2020

Find Your Future in Career Paths & Career Clusters

Manufacturing
- Production
- Manufacturing Production Process Development
- Maintenance, Installation and Repair
- Quality Assurance
- Logistics and Inventory Control
- Health, Safety and Environmental Assurance

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

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

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

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

Law, Public Safety, Corrections and Security
- Correction Services
- Emergency and Fire Management Services
- Security and Protective Services
- Law Enforcement Services
- Legal Services

Education and Training
- Administration and Administrative Support
- Professional Support Services
- Teaching and Training

Health Science
- Biotechnology Research and Development
- Therapeutic Services
- Diagnostics Services
- Health Informatics
- Support Services

Industrial & Engineering Technology
- Building & Fixing Path

Health Services
- Health Path

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

Arts & Communication
- Creative Path

Business, Management & Technology
- Business Path

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

Marketing
- Marketing Management
- Marketing Communications
- Market Research
- Professional Sales
- Merchandising

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

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

Agriculture, Food and Natural Resources
- Food Products and Processing Systems
- Plant Systems
- Animal Systems
- Power, Structural and Technical Systems
- Natural Resource and Environmental Systems
- Agribusiness Systems

MCCE
- Missouri Center for Career Education

MERIC
- Missouri Education Research Information Center
Students must meet Raymore-Peculiar graduation requirements. These courses are suggested for students interested in this career area.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Grade 9</th>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
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<tbody>
<tr>
<td>English (4 units)</td>
<td>English I or Advanced English I</td>
<td>English II or Advanced English II</td>
<td>English III, AP English Language &amp; Composition, or IB English</td>
<td>English IV, English 101/102, AP English Literature, or IB English</td>
</tr>
<tr>
<td>Science (3 units)</td>
<td>Biology, or Adv. Biology</td>
<td>Biology, Adv. Biology, Physical Science, or Chemistry</td>
<td>Physical Science, Chemistry, Physics, AP Biology, Human Anatomy &amp; Physiology, or IB Biology, IB Chemistry, or Environ. Systems &amp; Societies</td>
<td>College bound students should choose a 4th unit of science.</td>
</tr>
<tr>
<td>Physical Education &amp; Health</td>
<td>½ unit Physical Education</td>
<td>½ unit Health</td>
<td>½ unit elective PE class</td>
<td></td>
</tr>
<tr>
<td></td>
<td>½ unit 9th Weights</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Fine Arts</td>
<td>Two units of the same language are recommended/required for students attending a 4-year college</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Practicals Arts</td>
<td>One unit required that includes ½ unit of Personal Finance</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Recommended Youth Activities: Choir, Create a website, Drama Club, Marching Band, Photograph/record a school activity, School newspaper staff, School play or musical, Yearbook staff, Robotics, SkillsUSA, Act in a community production, Community Service Projects, Create a community website or promotional video, Co-operative Education, Internships, Job shadow professionals, Join community band, choir, orchestra or theatre, Participate in a community art project, Take dance lessons, Volunteer in a museum.

Post-Secondary Options

Please visit these sites for up to date lists of Technical Schools, Community Colleges, and 4-year Colleges & Universities with degree programs in this field.


If interested in pursuing a career involving this cluster in the U.S. military, please refer to the following websites:


www.marines.mil  (Marines)  www.af.mil  (Air Force)  www.uscg.mil  (Coast Guard)

Career Possibilities in Arts, Audio-Visual Technology and Communication

- Animator
- Audio Technician
- Sound Engineering Technician
- Broadcast News Analyst
- Editor
- Reporter
- Writer
- Desktop Publishing Specialist
- Prepress Technician
- Press Operator
- Central Office Installer
- Network & Computer Administrator
- Telecommunications Equipment Installer
- Actor/Actress
- Agent or Business Manager
- Choreographer
- Composer
- Director/Producer
- Model
- Musician
- Professional Athlete
- Singer
- Art Director
- Artist
- Commercial Photographer
- Fashion Designer
- Floral Designer
- Graphic Designer
- Interior Designer
- Jeweler

For more information regarding careers and post-secondary options visit student.naviance.com/rpsh
Students must meet Raymore-Peculiar graduation requirements. These courses are suggested for students interested in this career area.

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<td>English II or Advanced English II</td>
<td>English III, AP English Language &amp;</td>
<td>English IV, English 101/102 AP</td>
</tr>
<tr>
<td>Social Studies (3 units)</td>
<td>American History or Adv.</td>
<td>World History or AP World History</td>
<td>American Government,</td>
<td>College bound students must</td>
</tr>
<tr>
<td>High School Courses</td>
<td>American History</td>
<td></td>
<td>AP US Government &amp; Politics, or</td>
<td>choose a 4th unit of math.</td>
</tr>
<tr>
<td>Physical Education &amp; Health</td>
<td>½ unit Physical Ed.</td>
<td>½ unit Health</td>
<td>IB History of the Americas</td>
<td></td>
</tr>
<tr>
<td>Fine Arts</td>
<td>One unit fine art is required</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modern Language</td>
<td>Two units of the same language</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Practical Arts</td>
<td>One unit required that includes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suggested Electives</td>
<td>½ unit of Personal Finance</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Recommended Youth Activities: Association of Marketing Students (DECA), Future Business Leaders of America (FBLA), Manage fundraising activities, Student Council, Co-operative education, Job shadow professionals, Join a committee to plan an event, Join Boy and Girl Scouts, Organize/Participate in fundraising event, Participate in youth leadership programs, Secure part-time employment, Volunteer in the community.

Post-Secondary Options
Please visit these sites for up to date lists of Technical Schools, Community Colleges, and 4-year Colleges & Universities with degree programs in this field.


If interested in pursuing a career involving this cluster in the U.S. military please refer to the following websites:

www.marines.mil (Marines)    www.af.mil (Air Force)    www.uscg.mil (Coast Guard)

Career Possibilities in Business, Management & Administration

- Compensation, Benefits and Job Analysis Specialist
- Corporate Trainer
- Human Resources Manager
- OSHA/ADA Compliance Officer
- Personnel Recruiter
- Administrative Support
- Operations Management
- Business Information Management
- General Management
- Budget Analyst
- Business Consultant
- Business Operations Specialist
- Price Analyst
- Product Manager
- Administrative Services Manager
- Chief Executive Officer
- General Manager
- Management Analyst

For more information regarding careers and post-secondary options visit student.naviance.com/rpsh
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<td>English IV, English 101/102, AP English Literature, or IB English</td>
</tr>
<tr>
<td>Social Studies (3 units)</td>
<td>American History or Adv. American History</td>
<td>World History or AP World History</td>
<td>American Government, AP US Government &amp; Politics, or IB History or the Americas</td>
<td>College bound students should choose a 4th unit of social studies.</td>
</tr>
<tr>
<td>Physical Education &amp; Health</td>
<td>½ unit Physical Ed.</td>
<td>½ unit Health</td>
<td>½ unit Weight</td>
<td>½ unit elective PE class</td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td></td>
<td></td>
<td>One unit fine art is required</td>
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<tr>
<td>Modern Language</td>
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<td></td>
<td>Two units of the same language are recommended/required for students attending a 4-year college</td>
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<tr>
<td>Practical Arts</td>
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<td></td>
<td></td>
<td>One unit required that includes ½ unit of Personal Finance</td>
</tr>
</tbody>
</table>

Recommended Youth Activities: Association of Marketing Students (DECA), Future Business Leaders of America (FBLA), Manage fundraising activities, Student Council, Concession management, Campaign for an office, Competitive business events, Fundraising participation, Local investment club

Please visit these sites for up to date lists of Technical Schools, Community Colleges, and 4-year Colleges & Universities with degree programs in this field.


If interested in pursuing a career involving this cluster in the U.S. military please refer to the following websites:

www.marines.mil (Marines) www.af.mil (Air Force) www.uscg.mil (Coast Guard)

Career Possibilities in Finance

- Accountant or Auditor
- Bookkeeping, Accounting and Auditing Clerk
- Financial Manager
- Controller
- Economist
- Financial Analyst
- Financial Examiner
- Bill and Account Collector
- Credit Analyst
- Debt Counselor
- Loan Officer
- Operations Manager
- Teller
- Actuary
- Claims Adjuster, Examiner, Investigator
- Insurance Appraiser
- Insurance Underwriter

For more information regarding careers and post-secondary options visit student.naviance.com/rpsh
Business, Management, & Technology
Information and Technology

Students must meet Raymore-Peculiar graduation requirements. These courses are suggested for students interested in this career area.

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<td>Physical Education &amp; Health</td>
<td>½ unit Physical Ed. ½ unit Health ½ unit 9th Weights</td>
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</tbody>
</table>

**Recommended Youth Activities:** Develop web pages, Future Business Leaders of America (FBLA), Prepare school multimedia/video projects, School newspaper staff, SkillsUSA, Yearbook staff, Create a community web site or promotional video, Volunteer in the community, Help individuals use a computer, Set up computers and install software, Job shadow professionals, Co-operative Education

**Post-Secondary Options**

Please visit these sites for up to date lists of Technical Schools, Community Colleges, and 4-year Colleges & Universities with degree programs in this field.


If interested in pursuing a career involving this cluster in the U.S. military please refer to the following websites:

www.marines.mil (Marines) www.af.mil (Air Force) www.uscg.mil (Coast Guard)

**Career Possibilities in Information Technology**

- Computer Programmer
- Computer Software Engineer
- Data Modeler
- Game Programmer
- Tester
- Computer and Information Systems Manager
- Computer Support Specialist
- Customer Liaison
- Database Administrator
- Help Desk Specialist
- Information Systems Architect
- Technical Writer
- Computer Systems Analyst
- Data Communications Analyst
- Information Systems Operator
- Information Technology Engineer
- Network Architect
- Network Systems Analyst
- PC Support Specialist
- Telecommunications Network Technician
- 3-D Animator
- Audio/Visual Engineer
- Streaming Media Specialist
- Web Designer
- Webmaster

For more information regarding careers and post-secondary options visit student.naviance.com/rpsh
# Business, Management, & Technology

## Marketing, Sales, and Service

Students must meet Raymore-Peculiar graduation requirements. These courses are suggested for students interested in this career area.

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### High School Courses

**Recommended Youth Activities:** Class fundraisers, Concessions Management, Association of Marketing Students (DECA), Future Business Leaders of America (FBLA), Join a committee to plan an event, School newspaper/yearbook, Student Government, Develop community web site, Job shadow professionals, Participate in youth leadership programs, Start a business, Visit the Chamber of Commerce, Volunteer in the community.

### Post-Secondary Options

Please visit these sites for up to date lists of Technical Schools, Community Colleges, and 4-year Colleges & Universities with degree programs in this field.

- [student.naviance.com/rpsh](http://student.naviance.com/rpsh)
- [www.collegeboard.com](http://www.collegeboard.com)
- [www.dhe.mo.gov](http://www.dhe.mo.gov)

If interested in pursuing a career involving this cluster in the U.S. military please refer to the following websites:

- [www.army.mil](http://www.army.mil) (Army)
- [www.navy.mil](http://www.navy.mil) (Navy)
- [www.ng.mil](http://www.ng.mil) (National Guard)
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- [www.af.mil](http://www.af.mil) (Air Force)
- [www.uscg.mil](http://www.uscg.mil) (Coast Guard)

### Career Possibilities in Marketing, Sales & Service

- **Marketing Research**
  - Customer Service Representative
  - Interviewer
  - Market Research Analyst
  - Product Planner

- **Marketing Communications**
  - Media Buyer
  - Public Information Director
  - Public Relations Manager
  - Public Relations Specialist
  - Research Specialist

- **Marketing Management**
  - Advertising and Promotions Manager
  - Distributor
  - Entrepreneur
  - Franchisee
  - Marketing Manager
  - Small Business Owner

- **Professional Sales**
  - Field Representative
  - Real Estate Sales Agent
  - Retail Salesperson
  - Sales Engineer
  - Sales Manager
  - Sales Representative
  - Territory Representative

- **Merchandising**
  - Merchandise Buyer
  - Purchasing Agent
  - Purchasing Manager
  - Retail Marketing Coordinator

For more information regarding careers and post-secondary options visit [student.naviance.com/rpsh](http://student.naviance.com/rpsh)
# Health Services

**Health Science**

**Students must meet Raymore-Peculiar graduation requirements. These courses are suggested for students interested in this career area.**

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<tr>
<td>Studies</td>
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</tr>
<tr>
<td>(3 units)</td>
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<td></td>
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</tr>
<tr>
<td>Physical</td>
<td>½ unit Physical Ed.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Education</td>
<td>½ unit Health</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>&amp; Health</td>
<td>½ unit 9th Weights</td>
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<td>Fine Arts</td>
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</tr>
<tr>
<td>Language</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Arts</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suggested</td>
<td>Recommended Youth Activities: Athletics, SkillsUSA, Family, Career and Community Leaders of America (FCLLA), Science Olympiad, Robotics, Take First Aid Courses, Volunteer at Hospital/Nursing Home, Health Science Camps, Volunteer with Red Cross, Certified CPR Classes, EMT Certification, Career Fairs at Hospitals and Schools, Health Fairs, CNA Certification, Job Shadowing, Co-operative Education, ACEs PRIMO</td>
<td>Please visit these sites for up to date lists of Technical Schools, Community Colleges, and 4-year Colleges &amp; Universities with degree programs in this field.</td>
<td>student.naviance.com/rpsh <a href="http://www.collegeboard.com">www.collegeboard.com</a> <a href="http://www.dhe.mo.gov">www.dhe.mo.gov</a></td>
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</tr>
<tr>
<td>Electives</td>
<td></td>
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<td></td>
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</tbody>
</table>

For more information regarding careers and post-secondary options visit student.naviance.com/rpsh
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<td></td>
<td></td>
</tr>
<tr>
<td>Suggested Electives</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Recommended Youth Activities: Family, Career and Community Leaders of America (FCCLA), Athletics, Career fairs, Peer mediation, Serve as mentor or tutor, Student Council, other organizations that provide an opportunity to gain leadership and management skills, 4-H, Coach little league sports, Library volunteer aide, Member of scouting organizations, Provide child care, Volunteer in agencies that have an educational emphasis, Teach religious classes, Job shadowing, Co-operative education, Ambassador program

Post-Secondary Options

Please visit these sites for up to date lists of Technical Schools, Community Colleges, and 4-year Colleges & Universities with degree programs in this field.


If interested in pursuing a career involving this cluster in the U.S. military please refer to the following websites:

www.marines.mil (Marines)  www.af.mil (Air Force)  www.uscg.mil (Coast Guard)

Career Possibilities in Education and Training

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<thead>
<tr>
<th>Administration &amp; Administrative Support</th>
<th>Professional Support Services</th>
<th>Teaching and Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>● College President</td>
<td>● Audiologist</td>
<td>● Career Education Teacher</td>
</tr>
<tr>
<td>● College Dean</td>
<td>● Counselor</td>
<td>● Coach</td>
</tr>
<tr>
<td>● Curriculum Developer</td>
<td>● Parent Educator</td>
<td>● College Professor</td>
</tr>
<tr>
<td>● Education Administrator</td>
<td>● Psychologist</td>
<td>● Elementary Teacher</td>
</tr>
<tr>
<td>● Instructional Media Designer</td>
<td>● Social Worker</td>
<td>● High School Teacher</td>
</tr>
<tr>
<td>● Librarian</td>
<td>● Speech-Language Pathologist</td>
<td>● Human Resource Trainer</td>
</tr>
<tr>
<td>● Principal</td>
<td></td>
<td>● Kindergarten Teacher</td>
</tr>
<tr>
<td>● Superintendent</td>
<td></td>
<td>● Middle School Teacher</td>
</tr>
</tbody>
</table>

For more information regarding careers and post-secondary options visit student.naviance.com/rpsh
### Human Services
**Government and Public Administration**

Students must meet Raymore-Peculiar graduation requirements. These courses are suggested for students interested in this career area.

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<td>College bound students should choose a 4th unit of science.</td>
</tr>
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<td><strong>Social Studies</strong> (3 units)</td>
<td>American History or Adv. American History</td>
<td>World History or AP World History</td>
<td>American Government, AP US Government &amp; Politics, or IB History of the Americas</td>
<td>College bound students should choose a 4th unit of social studies.</td>
</tr>
<tr>
<td><strong>Physical Education &amp; Health</strong></td>
<td>½ unit Physical Education</td>
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<tr>
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- **Fine Arts**
  - One unit fine art is required

- **Modern Language**
  - Two units of the same language are recommended/required for students attending a 4-year college

- **Practical Arts**
  - One unit required that includes ½ unit of Personal Finance

- **Suggested Electives**

**Recommended Youth Activities:** Student Council, Other Student Organizations with Leadership Focus, Attend Local Government Meetings, Boys & Girls State, County Government Day, Do Community Service in Occupations in this Cluster, Election Volunteer, Leadership Development Programs, Talk with and Job Shadow People Employed in this Cluster, Scouting, Job Shadowing, Co-operative Education, Ambassador Program.

**Post-Secondary Options**
Please visit these sites for up to date lists of Technical Schools, Community Colleges, and 4-year Colleges & Universities with degree programs in this field.

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- [www.af.mil](http://www.af.mil)  (Air Force)

**Career Possibilities in Government and Public Administration**

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<th>Governance</th>
<th>Revenue &amp; Taxation</th>
<th>Planning</th>
<th>Foreign Service Affairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asst., Deputy or Chief of Staff</td>
<td>- Assessor</td>
<td>- Census Clerk</td>
<td>- Ambassador</td>
</tr>
<tr>
<td></td>
<td>- Internal Revenue Investigator</td>
<td>- Chief of Vital Statistics</td>
<td>- Administrative Foreign Service Officer</td>
</tr>
<tr>
<td>Legislative Aide</td>
<td>- Revenue Agent</td>
<td>- County Clerk</td>
<td>- Consular Officer</td>
</tr>
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<td>Lobbyist</td>
<td>- Tax Attorney</td>
<td>- Economic Development Coordinator</td>
<td>- Diplomatic Courier</td>
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<td>Public Advisor</td>
<td>- Tax Examiner</td>
<td>- Global Imaging Systems Specialist</td>
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<td>- Political Scientist</td>
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<th>Regulation</th>
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<th>National Security</th>
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<td>Aviation Safety Officer</td>
<td>- Archeologist</td>
<td>- Air Defense Artillery</td>
</tr>
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<td>Bank Examiner</td>
<td>- Archivist</td>
<td>- Combat Engineer or Aircraft Pilot</td>
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<td>- City Manager</td>
<td>- Cryptographer</td>
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<tr>
<td>Code Inspector</td>
<td>- Court Administrator</td>
<td>- Electronic Warfare Operations</td>
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<tr>
<td>Court, Municipal and License Clerk</td>
<td>- Curator</td>
<td>- Infantry Field Artillery</td>
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<td>Election Supervisor</td>
<td>- Executive Director of an Association, Foundation, or Chamber of Commerce</td>
<td>- Intelligence/Counter-intelligence Agent</td>
</tr>
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<td>Immigration Officer</td>
<td>- Program Administration Officer</td>
<td>- Missile and Space Systems</td>
</tr>
<tr>
<td>Postal Service Mail Carrier</td>
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<td>- Special Forces</td>
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For more information regarding careers and post-secondary options visit [student.naviance.com/rpsh](http://student.naviance.com/rpsh)
# Human Services
## Hospitality and Tourism

Students must meet Raymore-Peculiar graduation requirements. These courses are suggested for students interested in this career area.

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**Post-Secondary Options**

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If interested in pursuing a career involving this cluster in the U.S. military, please refer to the following websites:

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<tr>
<td>Navy</td>
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</tr>
<tr>
<td>National Guard</td>
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<tr>
<td>Air Force</td>
<td><a href="http://www.af.mil">www.af.mil</a> (Air Force)</td>
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<tr>
<td>Coast Guard</td>
<td><a href="http://www.uscg.mil">www.uscg.mil</a> (Coast Guard)</td>
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<tr>
<th>Restaurants and Food &amp; Beverage Services</th>
<th>Recreation, Amusement &amp; Attractions</th>
<th>Travel and Tourism</th>
<th>Lodging</th>
</tr>
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<tbody>
<tr>
<td>Baker</td>
<td>Conservator</td>
<td>Director of Sales and Marketing</td>
<td>Laundry Attendant</td>
</tr>
<tr>
<td>Chef</td>
<td>Equipment and Facility Maintenance</td>
<td>Event Planner</td>
<td>Lodging Manager</td>
</tr>
<tr>
<td>Counter Service</td>
<td>Event Planner</td>
<td>Interpreter</td>
<td>PBX Operator</td>
</tr>
<tr>
<td>First Line Supervisor</td>
<td>Gaming Manager</td>
<td>Tour Guide</td>
<td>Reservations Supervisor</td>
</tr>
<tr>
<td>Food and Beverage Manager</td>
<td>Museum Technician</td>
<td>Transportation Specialist</td>
<td>Valet Attendant</td>
</tr>
<tr>
<td>General Manager</td>
<td>Museum, Zoo or Aquarium</td>
<td>Travel Agent</td>
<td></td>
</tr>
<tr>
<td>Manager of Food Preparation and Serving Workers</td>
<td>Exhibit Developer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parks and Garden Ranger</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recreation Worker</td>
<td></td>
<td></td>
<td></td>
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For more information regarding careers and post-secondary options visit student.naviance.com/rpsh
### High School Courses

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- **Fine Arts**: One unit fine art is required
- **Modern Language**: Two units of the same language are recommended/required for students attending a 4-year college
- **Practical Arts**: One unit required that includes ½ unit of Personal Finance

### Post-Secondary Options

Please visit these sites for up to date lists of Technical Schools, Community Colleges, and 4-year Colleges & Universities with degree programs in this field.

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- www.navy.mil (Navy)
- www.ng.mil (National Guard)
- www.marines.mil (Marines)
- www.af.mil (Air Force)
- www.uscg.mil (Coast Guard)

### Career Possibilities in Human Services

- **Early Childhood Development & Services**
  - Childcare Facility Director
  - Childcare Worker
  - Nanny
  - Parent Educator
  - Preschool Teacher
  - Teacher Aide

- **Counseling and Mental Health Services**
  - Marriage and Family Therapist
  - Mental Health Counselor
  - Substance Abuse Social Worker
  - Vocational Rehabilitation Counselor

- **Family and Community Services**
  - Child, Family and School Social Worker
  - Clergy
  - Community Housing Service Worker
  - Geriatric Service worker
  - Social and Human Services Assistant
  - Sociologist
  - Vocational Rehabilitation Service Worker

- **Personal Care Services**
  - Fitness Trainer
  - Funeral Director
  - Hairdresser, Hair Stylist, Cosmetologist
  - Massage Therapist
  - Skin Care Specialist

- **Consumer Services**
  - Consumer Advocate
  - Customer Service Representative
  - Insurance Representative
  - Investment Broker
  - Personal Financial Advisor

For more information regarding careers and post-secondary options visit [student.naviance.com/rpsh](http://student.naviance.com/rpsh)
## Human Services

Law, Public Safety, Corrections, and Security

Students must meet Raymore-Peculiar graduation requirements. These courses are suggested for students interested in this career area.

### High School Courses

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**Fine Arts**

One unit fine art is required

**Modern Language**

Two units of the same language are recommended/required for students attending a 4-year college

**Practical Arts**

One unit required that includes ½ unit of Personal Finance

**Suggested Electives**


### Recommended Youth Activities:

- Develop web pages, Future Business Leaders of America (FBLA), Prepare school multimedia/video projects, School newspaper staff, SkillsUSA, Yearbook staff, Robotics, 4-H, Become Certified in CPR & First Aid, Do community service in occupations in this cluster, Scouting organizations, Talk with and job shadow people employed in this cluster, Volunteer at crisis centers or emergency shelters, Co-operative education, Peer Mediators

### Post-Secondary Options

Please visit these sites for up to date lists of Technical Schools, Community Colleges, and 4-year Colleges & Universities with degree programs in this field.

- [student.naviance.com/rpsh](http://student.naviance.com/rpsh)  
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- [www.uscg.mil](http://www.uscg.mil)  (Coast Guard)  
- [www.af.mil](http://www.af.mil)  (Air Force)

### Career Possibilities in Law, Public Safety, Corrections and Security

- **Emergency and Fire Management Services**
  - Dispatcher
  - Emergency Medical Technician/Paramedic
  - Emergency Management and Response Coordinator
  - Firefighter
  - Forest Firefighter
  - Hazardous Materials Responder

- **Security and Protective Services**
  - Computer Security Specialist
  - Forensic Science Technician
  - Gaming Surveillance Officer/Investigator
  - Industrial Espionage Security
  - Loss Prevention Assistant
  - Security and Fire Alarm Systems Installer
  - Security Guard

- **Law Enforcement Services**
  - Animal Control Officer
  - Bomb Technician
  - Child support
  - Criminal Investigator
  - Federal Marshall
  - Park Ranger
  - Police and Patrol Officer

- **Correction Services**
  - Case Manager
  - Corrections Officer
  - Probation and Parole Officer
  - Transport Officer
  - Youth Services Worker

- **Legal Services**
  - Arbitrator
  - Attorney
  - Court, Municipal and License Clerk
  - Judge
  - Law Clerk
  - Mediator
  - Paralegal and Legal Assistant

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RPHS  
Career Paths  
& Cluster  

Industrial & Engineering Technology  
Architecture and Construction  

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Recommended Youth Activities: SkillsUSA, Robotics, Connect with Architects in your area, Do home repair projects, Learn about the history of the buildings in your community, Work with contractor, Co-operative Education, Explorer’s Post, TSA

Post-Secondary Options  
Please visit these sites for up to date lists of Technical Schools, Community Colleges, and 4-year Colleges & Universities with degree programs in this field.  
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www.af.mil (Air Force)  
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Career Possibilities in Architecture and Construction

- Architect
- Architectural Drafter
- Cartographer
- Cost Estimator
- Landscape Architect
- Mechanical Engineer
- Surveyor
- Brickmason
- Carpenter
- Construction Laborer
- Construction Manager
- Electrician
- Glazier
- Hazardous Materials Removal Worker
- Painter
- Paper Hanger
- Plumber, Pipefitter, Steamfitter
- Roofer
- Welder, Cutter, Solderer and Brazer
- Heating, Air Conditioning and Refrigeration Mechanic / Installer
- Highway Worker
- Millwright
- Operating Engineer
- Telecommunications Line Installer and Repairer

For more information regarding careers and post-secondary options visit student.naviance.com/rpsh
Industrial & Engineering Technology
Manufacturing

Students must meet Raymore-Peculiar graduation requirements. These courses are suggested for students interested in this career area.

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</table>

Recommended Youth Activities: SkillsUSA, Robotics, Connect with manufacturing professionals, Learn about the history of the buildings in your community, Learn to repair machinery, Learn to use the latest tools for home repair, Tour a factory, Job Shadowing, Co-operative Education, TSA.

Post-Secondary Options

Please visit these sites for up to date lists of Technical Schools, Community Colleges, and 4-year Colleges & Universities with degree programs in this field.


If interested in pursuing a career involving this cluster in the U.S. military please refer to the following websites:


Career Possibilities in Manufacturing

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<th>Quality Assurance</th>
<th>Health, Safety &amp; Environmental Assurance</th>
<th>Logistics and Inventory Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Calibration Technician</td>
<td>- Environmental Specialist</td>
<td>- Dispatcher</td>
</tr>
<tr>
<td>- Inspector</td>
<td>- Health and Safety Engineer</td>
<td>- Freight, Stock and Material Mover</td>
</tr>
<tr>
<td>- Lab Technician</td>
<td>- Occupational Health and Safety Specialist</td>
<td>- Logistician</td>
</tr>
<tr>
<td>- Process Control Technician</td>
<td>- Operations Research Analyst</td>
<td>- Material Handler</td>
</tr>
<tr>
<td>- Quality Control Technician</td>
<td></td>
<td>- Quality Control Technician</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Production</th>
<th>Manufacturing Process Development</th>
<th>Maintenance, Installation &amp; Repair</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Assembler</td>
<td>- Design Engineer</td>
<td>- Boilermaker</td>
</tr>
<tr>
<td>- Industrial Production Manager</td>
<td>- Electronics Engineer</td>
<td>- Computer Installer or Repairer</td>
</tr>
<tr>
<td>- Machine Operator</td>
<td>- Engineering Technician</td>
<td>- Electronic Motor Repairer</td>
</tr>
<tr>
<td>- Machinist</td>
<td>- Labor Relations Manager</td>
<td>- Instrument Calibration and Repairer</td>
</tr>
<tr>
<td>- Manager or Supervisor</td>
<td>- Precision Inspector</td>
<td>- Laser System Technician</td>
</tr>
<tr>
<td>- Model Maker</td>
<td>- Purchasing Agent</td>
<td>- Major Appliance Repairer</td>
</tr>
<tr>
<td>- Power Distributor and Dispatcher</td>
<td>- Supervisor</td>
<td>- Manager of Mechanics, Installers and Repairers</td>
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<td>- Tool and Die Maker</td>
<td></td>
<td>- Plumber</td>
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<td>- Welder</td>
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## Industrial & Engineering Technology

**Science, Technology, Engineering and Mathematics**

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**Recommended Youth Activities:** SkillsUSA, Robotics, Discover Engineering Day, Science Olympiad, Explorer’s Post, Science Fairs, Participate in programs and activities provided by colleges and universities, Job Shadowing, Co-operative Education, TSA

**Post-Secondary Options**

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**Career Possibilities in Science, Technology, Engineering and Mathematics**

- Chemical Engineer
- Civil Engineer
- Electrical Engineer
- Electro-Mechanical Technician
- Engineering Manager
- Environmental Engineer
- Hazardous Waste Technician
- Industrial Engineer
- Materials Engineer
- Mechanical Engineer
- Mining Engineer
- Nuclear Engineer
- Nuclear Technician
- Power Systems Engineer
- Quality Technician
- Technical Writer
- Atmospheric Scientist
- Biochemist
- CAD Operator
- Chemist
- Conservation Scientist
- Demographer
- Economist
- Environmental Scientist
- Geological and Petroleum Technician
- Geologist
- Lab Technician
- Math Teacher
- Research Technician
- Science Teacher
- Zoologist

For more information regarding careers and post-secondary options visit student.naviance.com/rpsh
## Industrial & Engineering Technology
### Transportation, Distribution, and Logistics

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<th>Transportation Operations</th>
<th>Transportation Systems &amp; Infrastructure</th>
<th>Sales and Service</th>
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<tr>
<td>- International Logistics</td>
<td>- Airline Pilot</td>
<td>- Air Traffic Controller</td>
<td>- Cargo and Freight Agent</td>
</tr>
<tr>
<td>- Logisticist</td>
<td>- Delivery Truck Driver</td>
<td>- Civil Engineer</td>
<td>- Cashier</td>
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<tr>
<td>- Logistics Analyst</td>
<td>- Transportation, Storage and Distribution</td>
<td>- Motor Vehicle Inspector</td>
<td>- Counter or Rental Clerk</td>
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<td>- Logistics Engineer</td>
<td>- Manager</td>
<td>- Regulator</td>
<td>- Customer Order Clerk</td>
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<td>- Safety Engineer</td>
<td>- Tractor-Trailer Truck Driver</td>
<td>- Surveying and Mapping Technician</td>
<td>- Sales Manager</td>
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<td>- Urban Planner</td>
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### Health, Safety and Envir. Mgmt.

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<td>- Hazardous Materials Removal Worker</td>
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<td>- Painter</td>
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#### Agriculture, Food & Natural Resources

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</tr>
<tr>
<td>Physical Education &amp; Health</td>
<td>½ unit Physical Ed.</td>
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<td>½ unit elective PE class</td>
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<tr>
<td>English I or Advanced English I</td>
<td>½ unit Health</td>
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<tr>
<td>English II or Advanced English II</td>
<td>½ unit 9th Weights</td>
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<tr>
<td>Fine Arts</td>
<td></td>
<td></td>
<td></td>
<td>One unit fine art is required</td>
</tr>
<tr>
<td>Modern Language</td>
<td></td>
<td></td>
<td></td>
<td>Two units of the same language are recommended/required for students attending a 4-year college</td>
</tr>
<tr>
<td>Practical Arts</td>
<td></td>
<td></td>
<td></td>
<td>One unit required that includes ½ unit of Personal Finance</td>
</tr>
</tbody>
</table>

**Recommended Youth Activities:** FFA, Grow your own garden and sell produce at farmers market, Recycle, Tour an agribusiness, Work on a farm during the summer, Create your own agribusiness, Shadow a veterinarian, Volunteer at a local animal shelter, Job Shadowing, Co-operative Education

### Post-Secondary Options

Please visit these sites for up to date lists of Technical Schools, Community Colleges, and 4-year Colleges & Universities with degree programs in this field.

**student.naviance.com/rpsh**  
**www.collegeboard.com**  
**www.dhe.mo.gov**

If interested in pursuing a career involving this cluster in the U.S. military please refer to the following websites:

- [Army](https://www.army.mil)  
- [Navy](https://www.navy.mil)  
- [Air Force](https://www.af.mil)  
- [National Guard](https://www.ng.mil)

### Career Possibilities in Agriculture, Food and Natural Resources

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</thead>
<tbody>
<tr>
<td>Animal</td>
<td>Agricultural</td>
<td>Aquaculturist</td>
<td>Agriculture &amp; Food Science Technician</td>
<td>Agricultural Technology</td>
<td>Atmospheric/Space Scientist</td>
</tr>
<tr>
<td>(Breeder,</td>
<td>Commodity</td>
<td>Botanist</td>
<td>Bacteriologist</td>
<td>Biochemistry</td>
<td>Chemical Technician</td>
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<tr>
<td>Geneticist,</td>
<td>Broker</td>
<td>Farmer/</td>
<td>Biochemist</td>
<td>Technology</td>
<td>Conservation</td>
</tr>
<tr>
<td>Nutritionist,</td>
<td>Agricultural</td>
<td>Rancher</td>
<td>Food and Drug Inspector</td>
<td>Equipment Parts</td>
<td>Scientist</td>
</tr>
<tr>
<td>Scientist,</td>
<td>Economist</td>
<td>Forester</td>
<td>Meat, Poultry, Fish</td>
<td>Manager</td>
<td>Fisheries</td>
</tr>
<tr>
<td>Trainer)</td>
<td>Agricultural</td>
<td>Landscaping</td>
<td>Cutter and Trimmer</td>
<td>Farm Equipment</td>
<td>Geographer</td>
</tr>
<tr>
<td>Aquaculturist</td>
<td>Loan Officer</td>
<td>Manager</td>
<td>Microbiologist</td>
<td>Mechanic</td>
<td>Hazardous Materials</td>
</tr>
<tr>
<td>Farmer or</td>
<td>Agricultural</td>
<td>Plant Breeder</td>
<td></td>
<td>Global Positioning</td>
<td>Handler</td>
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<tr>
<td>Rancher</td>
<td>Products Buyer</td>
<td>Geneticist</td>
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<td>System Technician</td>
<td>Meteorologist</td>
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<tr>
<td>Veterinarian</td>
<td>International</td>
<td>Soil and Water</td>
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<td>Remote Sensing</td>
<td>Pollution Prevention</td>
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<tr>
<td>Zoologist</td>
<td>Agri-Marketing</td>
<td>Specialist</td>
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<td>Specialist</td>
<td>and Control</td>
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<tr>
<td>Specialist</td>
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<tr>
<td>Animal</td>
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</table>

For more information regarding careers and post-secondary options visit [student.naviance.com/rpsh](https://student.naviance.com/rpsh)
**COMMUNICATION ARTS**

The mission of the Communication Arts Department is to encourage students to read widely and in depth, write frequently in many formats, study important writings from many disciplines, and relate these studies meaningfully to their own lives. We promote the rationale behind the four language strands: speaking, listening, writing and reading.

All students must pass English I or Advanced English I, English II or Advanced English II, English III or AP English: Language & Composition and earn a fourth English credit.

**FRESHMAN:** English I or Advanced English I

**SOPHOMORE:** English II or Advanced English II

**JUNIOR:** English III or AP English Language & Composition or IB English HL 1

**SENIOR:** English IV, AP Literature and Composition, English 101 & 102 or IB English HL 2

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**H3002 ENGLISH I**

Year: 1 Unit  
Grade Level: 9  
English I will focus on literature and writing skills. The study of literature will include short stories, novels, drama, nonfiction, and poetry.

**H3012 ADVANCED ENGLISH I**

Year: 1 Unit  
Grade Level: 9  
This course is a scaffolding course into Advanced Placement Language and Composition/IB English. This course will cover some of the same units as English I, as well as additional units, but faster paced and more in-depth. More time will be spent interpreting literature. Special research projects may also be required.

**H3022 ENGLISH II**

Year: 1 Unit  
Grade Level: 10  
Prerequisite: Successful completion of English I by semester  
Sophomores will explore the writing process and compose various descriptive, narrative, argumentative and research writing projects. Students will expand their vocabulary skills as they read short stories, poetry, drama and novels. A selection of books will be provided for required outside reading.

**H3032 ADVANCED ENGLISH II**

Year: 1 Unit  
Grade Level: 10  
Prerequisite: Successful completion of Advanced English I, or English I- strong writing and reading skills necessary  
This course is a scaffolding course into Advanced Placement Language and Composition/IB English. Students will cover some material similar to the English II curriculum. However, in addition to reading short stories, the advanced course will also focus on more in-depth study of writing and literature. In addition, students will be required to read complex novels outside of class.

**H3071 ENGLISH III**

Year: 1 Unit  
Grade Level: 11  
Prerequisite: Successful completion of English II by semester  
Students will study American literature to sharpen literacy skills. Juniors will expand their knowledge of the writing process through technical and academic writing. A list of literary works will be provided so students may sharpen their writing and vocabulary skills during required outside reading. Students will be required to prepare project proposals for their Senior Drive Project.

**H30625 ENGLISH IV**

Year: 1 Unit  
Grade Level: 12  
Students will analyze literature and informational text throughout the year. There will be mini writings within each unit that lead to an expanded unit essay. Each semester will include an extensive research component. All components of the Senior Drive Project are required.

**HN3143 ADVANCED PLACEMENT ENGLISH: LANGUAGE & COMPOSITION**

Year: 1 Unit  
Grade Level: 12 Weighted  
The 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. Writing will be graded at the college level and there will be extensive outside reading assignments required for this class. Summer Assignment is required. To receive weighted credit, a student must take the AP test in the spring.

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**Communication Arts Electives**

**All students must acquire four credits of English to satisfy the Communication Arts graduation requirement.**

**H30465 ADVANCED PLACEMENT ENGLISH: LITERATURE AND COMPOSITION**

Year: 1 Unit  
Grade Level: 12 Weighted  
The AP English Literature and Composition course engages students in the careful reading and critical analysis of works of literary merit. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work’s structure, style, and themes as well as other narrative techniques. Writing will be graded using the AP 9-point scale and there will be extensive outside reading assignments required for this class. Summer assignment is required. To receive weighted credit, a student must take the AP test in the spring.

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**Career and Education Planning Guide 2019-2020**
HN3191 DUAL CREDIT COMPOSITION AND READING 101
Semester: 1/2 Unit  NCAA
Grade Level: 12 Weighted, 3 Hours of College Credit
Prerequisite: To earn college credit, students must meet MCC’s prerequisites of: a 2.5 (or greater) GPA and written parent permission, recommendation of the principal or counselor and an English ACT score of an 18 or higher or a proficient score on the ACCUPLACER.
This is a reading and writing intensive course offered during the fall semester. Three hours of college credit may be earned through MCC; tuition must be paid to MCC in order to receive college credit. This course focuses on critical thinking, reading and analysis of written texts, and the analysis and synthesis of ideas. These ideas produce the foundation for students’ essays. Three hours of college credit may be earned through MCC; tuition must be paid to MCC in order to receive college credit.

HN31120 DUAL CREDIT COMPOSITION AND READING 102
Semester: 1/2 Unit  NCAA
Grade Level: 12 Weighted, 3 Hours of College Credit
Prerequisite: To earn college credit, students must meet MCC’s prerequisites of: a 2.5 (or greater) GPA and written parent permission, recommendation of the principal or counselor and an English ACT score of an 18 or higher or a proficient score on the ACCUPLACER.
This course asks students to analyze and evaluate persuasive essays for the writer’s use of logical thinking. Students will develop research skills for the purpose of creating documented essays that reflect critical thinking and logical argument. Three hours of college credit may be earned through MCC; tuition must be paid to MCC in order to receive college credit.

ENGLISH ELECTIVES

HN3113 DUAL CREDIT INTRODUCTION TO LITERATURE 218
Semester: 1/2 Unit  NCAA
Grade Levels: 11-12
Weighted, 3 Hours of College Credit
Prerequisite: To earn college credit, students must meet MCC’s prerequisites of: a 2.5 (or greater) GPA and written parent permission, recommendation of the principal or counselor and an ACT score of an 18 or higher or a proficient score on the ACCUPLACER.
This course is designed to provide an in-depth study of the elements of fiction. Students will be exposed to quality literature and challenged to think deeply about universal messages. Students will analyze text elements by writing in-class responses and formal critical analysis essays as well as participating in Socratic Seminars.

HN30531 DUAL CREDIT FUNDAMENTALS OF SPEECH
Semester: 1/2 Unit  NCAA
Grade Levels: 11-12
Weighted, 3 Hours of College Credit
Prerequisite: To earn college credit, students must meet MCC’s prerequisites of: a 2.5 (or greater) GPA and written parent permission, recommendation of the principal or counselor and an ACT score of an 18 or higher or a proficient score on the ACCUPLACER.
This course is designed to help students improve their public speaking skills. Students will use a variety of techniques to outline, write and present a variety of different types of public speeches. Studies will include both formal and informal speaking situations. Recommended for all college-bound students. Three hours of college credit may be earned through MCC (SPDR 100); Tuition will be paid directly to the college to receive college credit.

HN32725 DUAL CREDIT ADVANCED COMPETITIVE DEBATE
Year: 1 Unit  NCAA
Grade Levels: 11-12 Weighted
Prerequisite: To earn college credit, students must meet MO State’s prerequisites of: a 3.0 GPA and a 21 or higher on the ACT. Students who do not meet those requirements may be considered with a letter of recommendation. Advanced Debate will focus on refining research, argumentation, and presentation skills as well as advanced debate theory and strategy. Emphasis is placed in in-depth analysis of the current Policy, Lincoln-Douglas, and/or Public Forum topics. Students will also work to improve their skills in competitive speaking events. Students receive weighted credit only for the initial semester of completion. Regular (non weighted) credit will be earned additional semesters. A student taking beginning Debate during 1st semester may enroll in Adv. Debate second semester if approved. *All students are required to compete in a minimum of 2 interscholastic debate tournaments in both debate and a public speaking event during each semester. Competitions are on weekends and usually include both Fridays and Saturdays. There are several weekend tournaments available throughout the semester to fulfill this requirement. **Participation is required to work both the Friday and Saturday of the invitational debate tournament that Ray-Pec hosts.

IB ENGLISH COURSES

HI 2001 IB ENGLISH HL 1
Year: 1 Unit  NCAA
Grade Level: 11 Weighted
Prerequisite: Advanced English I and Advanced English II are strongly recommended

HI 2001 IB ENGLISH HL 2
Year: 1 Unit  NCAA
Grade Level: 12 Weighted
Prerequisite: Successful Completion of IB English HL 1
This course is designed to sharpen students’ language, critical thinking, rhetorical analysis and literary analysis skills using literary works from a variety of countries. Students will independently analyze literature and non-fiction through both written and oral communication, draw connections among literary works and non-fiction, and develop an appreciation of both similarities and differences among these works and their authors. Students will also learn how to structure ideas and arguments in a logical, sustained, and persuasive manner. Students who take the HL2 course must take the IB exam in the Spring of their senior year.
Our mission is to provide an understanding of foreign languages and culture in an effort to enhance our economic competitiveness abroad, improve global communication and understanding, and maintain national, political and security interests.

Foreign language courses are NOT required to graduate from Raymore-Peculiar High School but are strongly recommended or required for all four year colleges and universities.

H3512 FRENCH I
Year: 1 Unit
Grade Levels: 9-12
Prerequisite: Successful completion of both semesters of English.
This course assumes no prior knowledge of French. The purpose of French 1 is to develop advanced thinking skills that can be applied to future study of French, and eventually college-level work. French 1 will familiarize students with French speaking cultures and aid them in the application of the language. The study of French will enrich the student's school experiences and teach them to appreciate and value other cultures outside of their own. French 1 is important in the development of critical thinking skills. By the end of the year students will be able to communicate at a novice level through speaking, reading, listening and writing. RECOMMENDED GRADE: It is recommended that students have at least a C in both semesters of their ELA class the year prior to studying French 1.

H3522 FRENCH II
Year: 1 Unit
Grade Levels: 9-12
Prerequisite: Successful completion of both semesters of French I
This course assumes successful completion of French 1. The purpose of French 2 is to develop advanced thinking skills that can be applied to future study of French, and eventually college-level work. French 2 will familiarize students with French speaking cultures and aid them in the application of the language. The study of French will enrich the student's school experiences and teach them to appreciate and value other cultures outside of their own. French 2 is important in the development of critical thinking skills. By the end of the year students' will be able to communicate at a more advanced novice level through speaking, reading, listening and writing. RECOMMENDED GRADE: It is recommended that students have at least a C in both semesters of French 1. It is also recommended that students do not skip years between studying French 1 and 2.

H3523 FRENCH III
Year: 1 Unit
Grade Levels: 10-12
Prerequisite: Successful completion of both semesters of French II
French III is a full-year course where students will continue their study of the French language. The course will continue to familiarize students with French speaking cultures and aid them in the application of the language. Students will be expected to learn advanced vocabulary and grammatical topics while reading authentic texts. The study of French will enrich the student's school experiences and teach them to appreciate and value other cultures outside of their own. French 3 is important in the development of critical thinking skills. By the end of the year, students will be able to communicate at a low-intermediate level through speaking, reading, listening and writing. RECOMMENDED GRADE: It is recommended that students have at least a C in both semesters of French 2. It is also recommended that students do not skip years between studying French 2 and 3.

H2102 IB FRENCH IV
(UMKC FRENCH 211/213)
Year: 1 Unit
Grade Levels: 11-12 Weighted, 6 hours of College Credit
Prerequisite: Completed French III with a C 2nd semester. To earn college credit, students must meet UMKC’s prerequisite of a 3.0 (or greater) GPA. French IV will provide students with the opportunity to acquire or develop an additional language and to promote an understanding of other cultures through the four primary language skills. Instruction will include oral and listening interaction, reading a range of authentic texts, and a variety writing tasks. This course may be taken for high school credit, college credit (through UMKC) and/or for IB purposes. RECOMMENDED GRADE: It is recommended that students have at least a C in both semesters of French III. It is also recommended that students do not skip years between studying French III and IV.

HN3542 DUAL CREDIT FRENCH IV
(UMKC FRENCH 211/213)
Year: 1 Unit
Grade Levels: 11-12 Weighted, 6 hours of College Credit
Prerequisite: Completed French III with a C 2nd semester. To earn college credit, students must meet UMKC’s prerequisite of a 3.0 (or greater) GPA. French IV will provide students with the opportunity to acquire or develop an additional language and to promote an understanding of other cultures through the four primary language skills. Instruction will include oral and listening interaction, reading a range of
familiarize students with Spanish speaking cultures and aid them in the application of the language. The study of Spanish will enrich the student's school experiences and teach them to appreciate and value other cultures outside of their own. Spanish 1 is important in the development of critical thinking skills. By the end of the year students will be able to communicate at a basic level through speaking, reading, listening and writing. RECOMMENDED GRADE: It is recommended that students have at least a C in both semesters of Spanish I.

H3639 SPANISH III
Year: 1 Unit
Grade Levels: 10-12
Prerequisite: Successful completion of both semesters of Spanish II
Spanish III is a full-year course where students will continue their study of the Spanish language. The course will continue to familiarize students with Spanish speaking cultures and aid them in the application of the language. Students will be expected to learn advanced vocabulary and grammatical topics while reading authentic texts. The study of Spanish will enrich the student's school experiences and teach them to appreciate and value other cultures outside of their own. By the end of the year, students will be able to communicate at a low-intermediate level through speaking, reading, listening and writing. RECOMMENDED GRADE: It is recommended that students have at least a C in both semesters of Spanish II.

H3652 DUAL CREDIT SPANISH V
(UMKC SPANISH 221/223)
Year: 1 Unit
Grade Levels: 11-12 Weighted, 6 hours of College Credit
Prerequisite: Completed Spanish III with a C 2nd semester. To earn college credit, students must meet UMKC’s prerequisite of a 3.0 (or greater) GPA.
Spanish V will provide students with the opportunity to acquire or develop an additional language and to promote an understanding of other cultures through the four primary language skills. Instruction will include oral and listening interaction, reading a range of authentic texts, and a variety of writing tasks. This course may be taken for high school credit, college credit (through UMKC) and/or for IB purposes. RECOMMENDED GRADE: It is recommended that students have at least a C in both semesters of Spanish III.

H21022 IB FRENCH V
(UMKC FRENCH 221/223)
Year: 1 Unit
Grade Level: 12 Weighted, 6 hours of College Credit
Prerequisite: Completed French IV with a C 2nd semester. To earn college credit, students must meet UMKC’s prerequisite of a 3.0 (or greater) GPA.
French V will provide students with the opportunity to acquire or develop an additional language and to promote an understanding of other cultures through the four primary language skills. Instruction will include oral and listening interaction, reading a range of authentic texts, and a variety of writing tasks. This course may be taken for high school credit, college credit (through UMKC) and/or for IB purposes. RECOMMENDED GRADE: It is recommended that students have at least a C in both semesters of French IV.

H3612 SPANISH I
Year: 1 Unit
Grade Levels: 9-12
Prerequisite: Successful completion of both semesters of English.
This course assumes no prior knowledge of Spanish. The purpose of Spanish 1 is to develop advanced thinking skills that can be applied to future study of Spanish, and eventually college-level work. Spanish 1 will familiarize students with Spanish speaking cultures and aid them in the application of the language. The study of Spanish will enrich the student's school experiences and teach them to appreciate and value other cultures outside of their own. Spanish 1 is important in the development of critical thinking skills. By the end of the year students will be able to communicate at a basic level through speaking, reading, listening and writing. RECOMMENDED GRADE: It is recommended that students have at least a C in both semesters of Spanish II. It is also recommended that students do not skip years between studying Spanish II and III.

H3622 SPANISH II
Year: 1 Unit
Grade Levels: 9-12
Prerequisite: Successful completion of both semesters of Spanish I
This course assumes successful completion of Spanish 1. The purpose of Spanish II is to develop advanced thinking skills that can be applied to future study of Spanish, and eventually college-level work. Spanish II will familiarize students with Spanish speaking cultures and aid them in the application of the language. The study of Spanish will enrich the student's school experiences and further their appreciation and value of other cultures outside of their own. Spanish II is important in the development of critical thinking skills. By the end of the year students will be able to communicate at a more advanced novice level through speaking, reading, listening and writing. RECOMMENDED GRADE: It is recommended that students have at least a C in both semesters of Spanish 1.

H2101 IB SPANISH IV
(UMKC SPANISH 211/213)
Year: 1 Unit
Grade Levels: 11-12 Weighted, 6 hours of College Credit
Prerequisite: Completed Spanish III with a C 2nd semester. To earn college credit, students must meet UMKC’s prerequisite of a 3.0 (or greater) GPA.
Spanish IV will provide students with the opportunity to acquire or develop an additional language and to promote an understanding of other cultures through the four primary language skills. Instruction will include oral and listening interaction, reading a range of authentic texts, and a variety of writing tasks. This course may be taken for high school credit, college credit (through UMKC) and/or for IB purposes. RECOMMENDED GRADE: It is recommended that students have at least a C in both semesters of Spanish III.

HN3642 DUAL CREDIT SPANISH IV
(UMKC SPANISH 121/213)
Year: 1 Unit
Grade Levels: 11-12 Weighted, 6 hours of College Credit
Prerequisite: Completed Spanish III with a C 2nd semester. To earn college credit, students must meet UMKC’s prerequisite of a 3.0 (or greater) GPA.
Spanish IV will provide students with the opportunity to acquire or develop an additional language and to promote an understanding of other cultures through the four primary language skills. Instruction will include oral and listening interaction, reading a range of authentic texts, and a variety of writing tasks. This course may be taken for high school credit, college credit (through UMKC) and/or for IB purposes. RECOMMENDED GRADE: It is recommended that students have at least a C in both semesters of Spanish III.
school credit, college credit (through UMKC) and/or for IB purposes. RECOMMENDED GRADE: It is recommended that students have at least a C in both semesters of Spanish IV.

HI21012 IB SPANISH V  
(UMKC SPANISH 221/223)  
Year: 1 Unit  
Grade Level: 12 Weighted, 6 hours of College Credit  
Prerequisite: Completed Spanish IV with a C 2nd semester. To earn college credit, students must meet UMKC’s prerequisite of a 3.0 (or greater) GPA.  
Spanish V will provide students with the opportunity to acquire or develop an additional language and to promote an understanding of other cultures through the four primary language skills. Instruction will include oral and listening interaction, reading a range of authentic texts, and a variety of writing tasks. This course may be taken for high school credit, college credit (through UMKC) and/or for IB purposes. RECOMMENDED GRADE: It is recommended that students have at least a C in both semesters of Spanish IV.
The mission of the Mathematics Department is to prepare students to be mathematically literate in a technologically changing society.

**All students must acquire three credits of math to satisfy the mathematics graduation requirement.**

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**MATHEMATICS CURRICULUM CHART**

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**IB TRACK**

**OTHER MATH COURSES**

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IF A STUDENT FAILS ALGEBRA, GEOMETRY OR ALGEBRA II DURING THE FIRST SEMESTER THEY WILL BE REQUIRED TO TAKE THE FIRST SEMESTER OF THAT COURSE DURING THE SECOND SEMESTER OF THAT YEAR.

- H50220 ALGEBRA I (FIRST HALF DURING SECOND SEMESTER) - H50221 ALGEBRA I (SECOND HALF DURING FIRST SEMESTER)
- H50511 GEOMETRY (FIRST HALF DURING SECOND SEMESTER) - H50512 GEOMETRY (SECOND HALF DURING FIRST SEMESTER)
- H50610 ALGEBRA II (FIRST HALF DURING SECOND SEMESTER) - H50611 ALGEBRA II (SECOND HALF DURING FIRST SEMESTER)

- Business Math (seniors only; for those who failed Alg. II and need a 3rd math credit)
- Continued Math Studies (2nd semester seniors only; for those who have completed Algebra II off-cycle)
If a student fails Algebra, Geometry or Algebra II during the first semester they will be required to take the first semester of that course during the second semester of that year.

H50220 ALGEBRA I
(first half during second semester) -
H50221 ALGEBRA I
(second half during first semester)  
H50511 GEOMETRY
(first half during second semester) -
H50512 GEOMETRY
(second half during first semester)  
H50610 ALGEBRA II
(first half during second semester) -
H50611 ALGEBRA II
(Second half during first semester)

H5021 ALGEBRA I
Year: 1 Unit
Grade Level: 9
Prerequisite: Successful completion of Algebra I

H5051 GEOMETRY
Year: 1 Unit
Grade Level: 10-12
Prerequisite: Successful completion of Geometry

H5052 ADVANCED GEOMETRY
Year: 1 Unit
Grade Level: 9
Recommended: A grade of A or B in Algebra I for both semesters (8th grade) is highly recommended.

This is a recommended course for students planning to take the higher level mathematics courses. This course will cover the same topics as Geometry, but at a faster pace and more in-depth.

This course will be a study of basic geometric figures and their relationships. Topics to be covered will include: geometric reasoning, parallel and perpendicular lines, polygons, triangle congruence, perimeter, area, surface area and volume, circles, trigonometry and probability.

H5062 ALGEBRA II
Year: 1 Unit
Grade Levels: 10-12
Prerequisite: Successful completion of Geometry

In this course, topics include solving systems of equations, transforming linear and quadratic equations, solving quadratics, polynomial functions, exponential and logarithmic functions, rational and radical functions, data analysis and statistics.

H5071 ADVANCED ALGEBRA II
Year: 1 Unit
Grade Levels: 10-12
Prerequisite: A grade of A or B in Advanced Geometry

Recommended for students who plan to pursue a career in mathematics, science, technology or business. Topics may include equations, inequalities, graph theory, matrices, polynomial and radical expressions, quadratic functions, conic sections, rational expressions, exponential and logarithmic functions, discrete mathematics and probability and trigonometric functions.

H50621 ADVANCED MATH TOPICS
Year: 1 Unit
Grade Levels: 11-12
Prerequisite: Successful completion of Algebra II

Math Topics is intended to prepare students to enter the world of work in the twenty-first century. In this course, students will solve real-world problems with many applications to business. Unique problem situations will be explored to enhance students' critical thinking and mathematical reasoning skills. Students will be required to solve such problems through modeling and other forms of representation. The discrete mathematics semester will include topics such as election theory, fair division and graph theory. The statistics semester will include topics such as probability and counting techniques, measures of central tendency and dispersion, and properties of normal distributions. Due to the similar nature of material, students who are enrolled in Advanced Math Topics during second semester cannot have previously earned credit in Statistics or be concurrently enrolled in Statistics.

H5083 DUAL CREDIT TRIGONOMETRY 130
Fall Semester only: 1/2 Unit
Grade Levels: 11-12
Prerequisites: A grade of C or better in Algebra II or Advanced Algebra II. To earn college credit, students must meet MCC’s prerequisites of: a 2.5 (or greater) GPA, written parent permission, recommendation of the principal or counselor and a score of 25 or higher on the math portion of the ACT or a score of 60 or higher on the college algebra portion of the ACCUPLACER.

This course will focus on a study of trigonometric functions, trigonometric identities and graphing trigonometric functions.

H50152 DUAL CREDIT ANALYTIC GEOMETRY
Spring Semester Only: 1/2 Unit
Grade Levels: 11-12
Prerequisite: A grade of C or better in Trigonometry. To earn college credit, students must meet UMKC’s prerequisites of: a 2.0 (or greater) GPA or a 21 or higher on the ACT.

This course will focus on analytic geometry, including conic sections, polar coordinates, complex numbers and some work with vectors and solid geometry.
**IB MATH COURSES**

**HI232 IB MATH SL1**
Year: 1 Unit
Grade Level: 11 Weighted
Prerequisite: A grade of an A or B in Advanced Algebra II is required
This course is designed to provide students with continuation of their algebraic skills as well as entry-level exposure to other mathematical elements and topics for the sole purpose of keeping their mathematical skills current and refreshed for better success in college.

**HI 23112 IB MATH STUDIES SL 2**
Year: 1 Unit
Grade Level: 12 Weighted
Prerequisite: Successful completion of IB Mathematics SL 1
In this course students will study Logic (compound statements and negations, truth tables, set theory); Probability (mutually and non-mutually exclusive events, independent and dependent events, conditional probabilities, expected value); Geometry and Trigonometry (sine and cosine rules, solid geometry, distance and angle measure in 3D space); Differential Calculus (derivative as rate of change, increasing and decreasing functions, local max and min values). Students will complete their Internal Assessment by December of this year. The Internal Assessment is a self-designed project in which students collect, analyze and evaluate relevant data. Students will also take the External Assessment in the spring of this year. Students who take the SL2 course must take the IB exam in the spring of their senior year.

**H5010 CONTINUED MATH STUDIES**
Semester: 1/2 Unit
Grade Level: 12
This course is designed and recommended only for senior students who have finished their Algebra 2 coursework after the first semester of their senior year. This course will provide students with continued development of their algebraic skills as well as entry-level exposure to other mathematical elements and topics for the sole purpose of keeping their mathematical skills current and refreshed for better success in college.

**H5202 MATHEMATICS WITH BUSINESS APPLICATIONS**
Year: 1 Unit
Grade Level: 12
Prerequisite: Successful completion of Geometry and for a senior needing a 3rd math credit. Teacher/counselor or administrative approval to enroll in this course.
This course will use expanded previously learned math concepts and skills through applications found in daily personal finance and business situations. This course does not meet the mathematics requirement for college-bound students.
SOCIAL STUDIES OFFERINGS

It is the goal of the Social Studies Department to demonstrate to students the importance of citizenship in the United States, to relate the historical, political, and social influences on the responsibilities of citizens in our society and on their position in a global economy.

REQUIRED COURSES

H4032 AMERICAN HISTORY
Year: 1 Unit
Grade Level: 9
Prerequisite: Successful completion of Algebra I

This American History course is designed to introduce students to the changes in the U.S. through political, economic, social, and industrial expansion by studying the eras of Reconstruction through today’s “war on terrorism.” Additionally, this course will give students an understanding of the importance of functioning in a culturally diverse America. Students will demonstrate their mastery of these concepts through multiple instructional methodologies.

H4012 WORLD HISTORY
Year: 1 Unit
Grade Level: 10
Prerequisite: Successful completion of Algebra I

This course is a social, cultural, economic and political study of mankind from primitive beginnings to the present. Students will be introduced to such topics through comparative analysis from antiquity through the modern age. Special emphasis will be given to the many and varied contributions to the world cultural growth that have been made by all humanity; ethnic, racial, gender and religious.

H4002 AMERICAN GOVERNMENT
Year: 1 Unit
Grade Level: 11
Prerequisite: Successful completion of Algebra I

This course examines the origins, development, and basic structure of the United States’ government. Students will take the U.S. and Missouri Constitution Exams as part of this course, and must pass the exam and course in order to graduate.

ELECTIVES

H4039 PRINCIPLES OF ECONOMICS
Semester: 1/2 Unit
Grade Levels: 11-12
Prerequisite: Successful completion of Algebra I

This course is designed to introduce students to the major concepts of economics, both at the individual and domestic levels. Students will learn about how individuals make decisions based on preferences and limitations. Those who enroll in this course will explore pricing and markets, as well as how the United States and foreign governments use policy to attempt to affect the economy.

H4042 SOCIOLOGY
Semester: 1/2 Unit
Grade Levels: 11-12

Sociology is the study of our society. It is concerned with groups, how they are formed, how they interact, how they change and the problems they encounter. Areas covered include social structure, social institutions, and the socialization process.

H4052 PSYCHOLOGY
Semester: 1/2 Unit
Grade Levels: 11-12

This class encompasses the study of individual human behavior. Areas included are human development, learning, intelligence, memories, stress and personality disturbances.

H4040 HOLOCAUST STUDIES
Semester: 1/2 Unit
Grade Levels: 11-12

This course will focus on the Holocaust that occurred in Europe during World War II. Students will learn the causes, events that transpired for Nazi soldiers, Jews and civilian Europeans, and the aftermath of the Holocaust. Students will also spend time learning about other genocidal situations that occurred globally since the 1940’s. This class is taught using a multimedia/multidisciplinary approach. Students can expect to see a variety of dramatic films and documentaries, listen to memoirs of survivors, read literary works and graphic novels, and conduct their own research into an area of their choosing. We will also be examining the Holocaust from a variety of perspectives, including historical, literary, artistic, scientific, religious, cultural, philosophical, ethical and diplomatic points of view.

H4072 LAW ENFORCEMENT
Semester: 1/2 Unit
Grade Levels: 11-12

This course is designed to give students an introductory look at law enforcement. Students will learn about the Bill of Rights and how those rights impact their daily lives. Students will discover the purpose of law enforcement agencies, while also learning about their functions and procedures. There are several hands-on activities throughout the course such as a mock trial, a traffic stop, a drunk driving activity and more.

H4083 GENEALOGY
Semester: 1/2 Unit
Grade Levels: 9-12

Genealogy is a course designed to teach the tools of historical research so students can build and explore the ancestral roots of each individual. Genealogy is one of the world’s most popular hobbies; hundreds of millions of people around the globe are actively engaged in some form of family research. This course will teach students how to research, record, discover and navigate the endless branches of an individual’s family tree. Note: Due to the nature of the course, students will have to provide family information; parents must give written permission for this in order for a student to enroll in the course.
HN4201 DUAL CREDIT FOUNDATIONS OF WESTERN CIVILIZATION 133
Semester: 1/2 Unit
Grade Levels: 11-12 Weighted, 3 Hours of College Credit
Prerequisite: To earn college credit, students must meet MCC's prerequisites of: a 2.5 (or greater) GPA and written parent permission, recommendation of the principal or counselor and an ACT score of an 18 or higher or a proficient score on the ACCUPLACER.
This course is a survey examination of the development of the ideas and institutions peculiar to the Western cultural and intellectual tradition up to 1600 AD. We will begin with the origins of civilization and religion, progress through the ancient world of the Near East and the Mediterranean, culminating in the evolution of Western thought through the Middle Ages, Renaissance, and the Reformation. A term paper will be required for the completion of this course.

HN4202 DUAL CREDIT MODERN WESTERN CIVILIZATION 134
Semester: 1/2 Unit
Grade Levels: 11-12 Weighted, 3 Hours of College Credit
Prerequisite: To earn college credit, students must meet MCC's prerequisites of: a 2.5 (or greater) GPA and written parent permission, recommendation of the principal or counselor and an ACT score of an 18 or higher or a proficient score on the ACCUPLACER.
This course is a survey examination of the development of the ideas and institutions peculiar to the Western cultural and intellectual tradition from 1600 AD to present day. We will begin with the Renaissance and continue through industrialism, nationalism as well as the problems posed by war, revolution and imperialism in the 20th century. A term paper will be required for the completion of this course.

HN4203 DUAL CREDIT AMERICAN HISTORY 120
Semester: 1/2 Unit
Grade Level: 12 Weighted, 3 Hours of College Credit
Prerequisite: To earn college credit, students must meet MCC's prerequisites of: a 2.5 (or greater) GPA and written parent permission, recommendation of the principal or counselor and an ACT score of an 18 or higher or a proficient score on the ACCUPLACER.
This is a survey course of early American history, covering the pre-colonial period through Reconstruction up to 1877. Special emphasis will be given to the people, places, and events that have shaped the American experience and made it unique. Attention will also be given to the social, cultural, and political developments of the period as well. Students may take either AH 120, 121 or both. A term paper will be required for completion of this course.

HN4204 DUAL CREDIT AMERICAN HISTORY 121
Semester: 1/2 Unit
Grade Level: 12 Weighted, 3 Hours of College Credit
Prerequisite: To earn college credit, students must meet MCC's prerequisites of: a 2.5 (or greater) GPA and written parent permission, recommendation of the principal or counselor and an ACT score of an 18 or higher or a proficient score on the ACCUPLACER.
This is a survey course of American history, covering the end of Reconstruction up through the twentieth century. Special emphasis will be given to the people, places, and events that have shaped the American experience and made it unique. Attention will also be given to the social, cultural, and political developments of the period as well. Students may take either AH 120, 121 or both. A term paper will be required for completion of this course.

HN4161 ADVANCED PLACEMENT UNITED STATES GOVERNMENT & POLITICS
Year: 1 Unit
Grade Levels: 11-12 Weighted
This class fulfills the Foundations of Government/Political Studies Requirement
AP Government offers students the opportunity to read and analyze materials in a college-level text and various primary and secondary sources as they study the relationship between politics and government. This course includes a comprehensive study of the art of politics and the workings of contemporary American political behavior as a primary social force. Students with a special interest in political science, law, or citizen political involvement will participate in a variety of activities which will allow them to apply theory into practice. Attention will also be given to comparative government, political frameworks, and political change. The grade for this course is weighted. Students will be required to attend a local government meeting (i.e. school board or city council). To receive weighted credit, a student must take the AP Test in the spring.

H1632 ADVANCED AMERICAN HISTORY
Year: 1 Unit
Grade Level: 9th grade students can take in place of regular American History
Advanced American History provides an opportunity for advanced students to read and analyze a college text and various primary and secondary sources. Students will work with political cartoons, artwork, music, architecture, speeches, essays, articles, graphs, film, maps and books. The course covers the history of the U.S. from colonization to the present and emphasizes major themes. Methods of instruction and evaluation include lecture, discussion, debates, projects, a variety of written assignments, and oral presentations.

HN4165 ADVANCED PLACEMENT WORLD HISTORY
Year: 1 Unit
Grade Levels: 10-12 Weighted
AP World History is an advanced weighted class that can be taken instead of the required world history course. This is for advanced students who wish to challenge themselves by using college level materials. It is a social, cultural, economic and political study of mankind from primitive beginnings to the present following the College board curriculum to prepare students for the AP World History test. To receive weighted credit, a student must take the AP test in the spring.

H40821 MODERN CRITICAL ISSUES
Semester: 1/2 Unit
Grade Levels: 11-12
This exciting class is the study of economic, political, and cultural events that shape our daily lives. Students will read various contemporary magazines and newspapers, and will analyze the significance of each event on a community, state, national, and world level. This course requires a great deal of outside reading and writing.

IB HISTORY COURSES

HI 2201 IB HISTORY OF THE AMERICAS HL 1
Year: 1 Unit--Fulfills Government requirement
Grade Level: 11 Weighted
AP World History is Strongly Recommended

HI 2202 IB HISTORY OF THE AMERICAS HL 2
Year: 1 Unit
Grade Level: 12 Weighted
Prerequisite: Successful completion of IB History of the Americas HL 1

Over two years students will cover American History along with Canadian and Latin American Histories. The course will focus on peacekeeping as well as threats to peace such as war during the twentieth century, single party dictatorships, and the Cold War. Students will explore the changing American role during these events. Students will practice historical research and prepare for the HL exam at the end of the twelfth grade year. Completion of the eleventh grade year of History of the Americas will fulfill the required American Government and Constitution tests during. Students who take the HL2 course must take the IB exam in the spring of their senior year.

HI 2210 IB PSYCHOLOGY SL
Year: 1 Unit
Grade Levels: 11-12 Weighted
This one-year course aims to develop an awareness of how research findings can be applied to better understand human behavior and how ethical practices are upheld in psychological inquiry. Students will apply three strategies (biological, cognitive, and sociocultural) of inquiry explaining, predicting, and evaluating changes in human behavior. In addition, students will explore alternative explanations of behavior and use diverse methods of psychological inquiry.

HI 22110 IB PSYCHOLOGY HL
Year: 1 Unit
Grade Levels: 11-12 Weighted
This two year course builds on the IB Psychology SL curriculum and explores additional areas of study. HL students will conduct an original psychological study demonstrating scientific methodology to studying human behavior.

HI 222 IB SOCIAL AND CULTURAL ANTHROPOLOGY
Year: 1 Unit
Grade Levels: 11-12 Weighted
This course offers students an opportunity to become acquainted with anthropological perspectives and ways of thinking. Social and cultural anthropology contributes a distinctive approach to intercultural awareness and understanding differences and relationships between cultures, which embodies the essence of an IB education. Anthropology fosters the development of citizens who are globally aware and ethically sensitive.
SCIENCE EDUCATION OFFERINGS

The mission of the Science Department is to foster an environment which will enable students to become critical thinkers and to promote an understanding of how science will affect their daily lives.

**REQUIRED COURSES**

All students must complete three years of science to satisfy the required science curriculum for graduation. One of those three classes must be Biology or Advanced Biology

### BIOLOGICAL SCIENCE

**H6032 BIOLOGY**
Year: 1 Unit
Grade Levels: 9-10
Recommended: Completion of 8th grade science course

Biology is designed to provide students with a thorough coverage of biological concepts which forms a sound scientific foundation. This course includes inquiry-based instruction and laboratory experiences. In addition, this course fosters learning that encourages students to incorporate scientific reasoning, analysis and real-world application. Content includes biochemistry, cellular energy, body system and homeostasis, DNA & protein synthesis, cellular reproduction, genetics and ecology.

**H6035 ADVANCED BIOLOGY**
Year: 1 Unit
Grade Levels: 9-10
Recommended: Completion of 8th grade science course with a B or better in both semesters of 8th grade science

Advanced Biology is a course recommended to students who plan on furthering their education past high school. This course includes inquiry-based instruction, hands-on activities and laboratory experiences. In addition, this course fosters learning that encourages students to incorporate scientific reasoning, analysis and real-world application. Content includes: biochemistry, cellular energy, body system & homeostasis, DNA & protein synthesis, cellular reproduction, genetics and ecology.

### PHYSICAL SCIENCE

**H6010 PHYSICAL SCIENCE**
Year: 1 Unit
Grade Levels: 10-12

This class will give students a beginning knowledge of their physical world. It will include topics related to the structure of matter, physical properties and chemical properties of matter, motion, forces, Newton’s Laws, work and energy. Calculations for this class require basic algebra knowledge.

**H6072 CHEMISTRY**
Year: 1 Unit
Grade Levels: 10-12
Prerequisite: Successful completion of Biology and Algebra 1

Chemistry is the study of matter and the changes in the composition of matter that affects our daily lives. Topics covered include atomic theory, phases of matter,
HN6092 PHYSICS
Year: 1 Unit  
Grade Levels: 11-12 Weighted  
Prerequisite: Successful completion of current enrollment in Trigonometry or IB Math SL 1

Matter and energy relationships as evidenced in mechanics, kinetics and heat are studied in this course. Laboratory experiences help to place an emphasis on problem solving while reinforcing the basic principles covered in class. Typical lab experiments are the velocity and acceleration of objects, optics, sound and projectiles.

ELECTIVE COURSES

HN6084 ADVANCED PLACEMENT CHEMISTRY
Year: 1 Unit  
Grade Levels: 11-12 Weighted  
Prerequisite: Successful completion of Algebra II and Chemistry  
Recommended: Grade of a B or better in Algebra II and Chemistry

The AP Chemistry course is designed to mirror two semesters of a standard, college-level general chemistry course. During the class, students will attain a fundamental depth of understanding and a reasonable competence of chemical problems through guided and open inquiry. The course will also contribute to the development of the students’ abilities to clearly express their ideas with simplicity and logic with an emphasis on mathematical calculations, formulation of principles, and laboratory work. Students should also expect to spend at least five hours a week in individual study outside the classroom to be successful. To receive weighted credit, a student must take the AP test in the spring.

H6044 HISTORICAL GEOLOGY
Semester: 1/2 Unit  
Grade Levels: 11-12  
Prerequisite: Successful completion of Physical Science or Chemistry

This course will cover the earth processes and major features that have contributed to the planet that now exists. Topics of study include earth formation, rocks and minerals of the crust, evolution of biological and codevelopment of biological and geological features and their impact on earth’s history and future.

H6054 ATOMIC SCIENCE
Semester: 1/2 Unit  
Grade Levels: 11-12  
Prerequisite: Successful completion of Physical Science or Chemistry

This course is designed to study weather, weather forecasting, tornadoes, basic astrophysics, oceans and their impact on global climate.

H6062 BOTANY
Semester: 1/2 Unit  
Grade Levels: 11-12  
Prerequisite: Successful completion of Biology

Basic concepts of plant biology will be reviewed with emphasis on plant structures, functions, reproductive strategies and energy processing. Plant growth and care will be studied through various activities which may include building potting soil, composting, growing plants for food, harvesting seeds for winter sowing, and landscaping in the outdoor classroom to support native wildlife with emphasis on Monarch butterflies.

H6142 FIELD BIOLOGY
Semester: 1/2 Unit  
Grade Levels: 11-12  
Prerequisite: Successful completion of Biology

Basic biology concepts will be reviewed and applied to a survey of the animal classifications in North America with emphasis on select organisms native to Missouri. Projects in the outdoor classroom include an insect collection, a scavenger hunt, and a field study utilizing a portable student ‘bait station’, a bird feeding station, a scavenger feeding station and analysis of game camera photos taken over the semester.

H6112 HUMAN ANATOMY & PHYSIOLOGY
Year: 1 Unit  
Grade Levels: 11-12  
Prerequisite: Grade of a C or better in Biology

This course is intended to familiarize students with the function of their bodies beyond those covered in biology. Areas of emphasis will be tissues, directional terminology, organs and body systems. Cat dissections will be mandatory to reinforce students’ understanding of the structure and function of the body. This class may be used to prepare those students who are interested in further specialized work in health-related fields.

H6152 GENETICS
Semester: 1/2 Unit  
Grade Levels: 11-12

This course will be an extension of the concepts and principles of genetics learned in biology. Topics of study will include DNA, mitosis, Mendelian Genetics, genetic engineering, and bioethics.

H6180 PRINCIPLES OF BIOMEDICAL SCIENCE(PLTW)
Year: 1 Unit  
Grade Levels: 9-11

In this introductory course of the Project Lead the Way Science program, students will explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students will examine autopsies, investigate medical history and explore medical treatments that might have prolonged the person’s life. The activities and projects introduce students to human physiology, basic biology, medicine and research processes while allowing them to design their own experiments to solve problems. This is the first course in the PLTW biomedical pathway.

H61801 HUMAN BODY SYSTEMS(PLTW)
Year: 1 Unit  
Grade Levels: 10-12  
Prerequisite: Successful completion of Principles of Biomedical Science

In this course, students will examine the interactions of the 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.

H619 MEDICAL INTERVENTIONS(PLTW)
Year: 1 Unit  
Grade Levels: 11-12  
Prerequisites: Successful completion of Principles of Biomedical Science and Human Body Systems

This course allows students to investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. Students will explore how to prevent and fight infection, screen and evaluate the code in our DNA, prevent, diagnose and treat cancer and how to prevail when the organs of the body begin to fail. Students will be exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices and diagnostics.
The AP Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. This is a rigorous course in terms of range and depth of topics, laboratory work, and time and effort required of students. The general areas of study are Molecules and Cells, Heredity and Evolution, and Organisms and Populations. To receive weighted credit, the student must take the AP test in the spring.

**HN6102 ASTRONOMY**

**Semester:** 1/2 Unit  
**Grade Levels:** 11-12 Weighted  
**Prerequisite:** Current enrollment or completion of Trigonometry or IB Math SL 1 or teacher approval

This second semester evening course is designed to provide the students with an advanced knowledge of celestial items and their movement. The class will cover a more extensive study of the field of astronomy. The students will be reproducing methods of study done by professional astronomers along with a historical background of the field. Celestial recording will be an important component and includes written observations, illustrations, and computer imaging. The lab component is conducted both with computer based simulations and real world observations.

**HI 2401 IB BIOLOGY HL 1**

**Year:** 1 Unit  
**Grade Level:** 11 Weighted  
**Prerequisite:** Successful completion of Chemistry and a grade of a B or better in Biology or Advanced Biology

The coursework in these classes builds upon vast knowledge gained in previous biology courses and chemistry. The course will elaborate on biological concerns of global importance and will develop experimental and investigative skills. Material will be presented through various media, including but not limited to the use of technology, scientific journals, lectures and laboratory investigations.

**HI 2402 IB BIOLOGY HL 2**

**Year:** 1 Unit  
**Grade Level:** 12 Weighted  
**Prerequisite:** Successful completion of IB Biology HL 1

The coursework in these classes builds upon vast knowledge gained in previous biology courses and chemistry. The course will elaborate on biological concerns of global importance and will develop experimental and investigative skills. Material will be presented through various media, including but not limited to the use of technology, scientific journals, lectures and laboratory investigations.

Students follow the syllabus provided by the International Baccalaureate Organization. The course requires commitment to a rigorous two-year biology program. The student is required to maintain a detailed laboratory portfolio of investigations, showing competence in using scientific inquiry and methodology for problem solving. The portfolio will be submitted for internal assessment by the IB examiner. A mandatory Group 4 project will be completed during the two-year period. Students who take the HL2 course must take the IB exam in the spring of their senior year.

**HI 2421 IB ENVIRONMENTAL SYSTEMS AND SOCIETIES SL**

**Year:** 1 Unit  
**Grade Levels:** 11-12 Weighted

This course will provide students with a coherent perspective of the relationship between environmental systems and societies. Understanding this relationship allows students to adopt an informed personal response to the wide range of pressing environmental issues. Students attention can be constantly drawn to their own relationship with their environment and the significance of choices and decisions that they make. It is intended that students develop a sound understanding of the interrelationships between environmental systems and societies beyond the purely journalistic appreciation of environmental issues. This course allows students to evaluate the scientific, ethical and socio-political aspects of issues relating to the environment.

**HI 24112 IB CHEMISTRY HL 2**

**Year:** 1 Unit  
**Grade Level:** 12 Weighted  
**Prerequisite:** Successful completion of IB Chemistry HL1

This course is designed to prepare the students for the Higher Level IB Chemistry Exam. This will be done through a comprehensive study of chemistry principles, examinations, and investigations which involve the students in scientific problem solving and inquiry processes. The students will design experiments to answer specific chemical questions and will be evaluated using the IB Internal Assessment Practical Scheme of Work. In addition to individual assessment, students will appropriately choose and manipulate mathematical formulas, show understanding of the relationships between theory and practical laboratory applications, develop an appreciation for the need to collaborate with peers and the importance of global communication and cooperation. Students who take the HL2 course must take the IB exam in the spring of their senior year.
PRACTICAL ARTS

The mission of the Business Education, Marketing and Technology Program is to offer a wide variety of courses that will aid in developing a graduate who can assume responsibility as a citizen, worker, and consumer in the business community.

The mission of the Family and Consumer Science Program is to help students achieve skills, attitudes and behaviors needed for successful balancing of family and career life.

The mission of the Industrial Technology Program prepares students to work with a variety of current and emerging technologies. The curriculum focuses on real-life application of skills and information. Students will use technology to design and create products.

H7262 TECHNICAL THEATRICAL PRODUCTION
Semester: 1/2 Unit
Grade Levels: 9-12
This class is designed for students who wish to learn about the technical aspects of the theater: scenery design and construction, lighting, painting and properties. This class is repeatable for credit with instructor permission.

H7263 ADVANCED TECHNICAL THEATRICAL PRODUCTION
Semester: 1/2 Unit
Grade Levels: 10-12
Prerequisite: Successful completion of Technical Theatre Production
This class is designed for students interested in theatre who wish to learn the more advanced technical aspects of theatre including lighting and scenic design advanced painting techniques, properties design and construction, costume design and construction, and make-up design and application. This class is repeatable for credit with instructor permission.

FAMILY AND CONSUMER SCIENCE

All courses in the Family and Consumer Science Department will teach students skills they will use for a lifetime. The courses offered will fulfill the Practical Art requirement for graduation from Raymore-Peculiar High School. Some courses have prerequisites and/or materials needed.

H73365 FUNDAMENTALS OF FASHION AND INTERIOR DESIGN
Semester: 1/2 Unit 5
Grade Levels: 9-12
This course will allow students to explore the elements of fashion and interior design. Students will be exposed to two different design career pathways: Arts & Communication and Human Services. Methods of instruction include lecture, discussion, note-taking, technology-based activities, assessment and projects geared towards each unit. Basic sewing skills are taught in this course. Materials for projects will be provided by students.

H73262 FASHION DESIGN AND CONSTRUCTION
Year: 1/2 Unit 5
Grade Levels: 9-12
Recommendation: Successful completion of Fundamentals of Fashion and Interior Design with a 70% or better.
This course is for students who desire to gain basic skills needed to produce, alter and repair a variety of fashion apparel and textile products. Students will demonstrate design concepts with fabric, draping and flat pattern making techniques. Materials for sewing projects will be provided by the student.

H73263 ADVANCED FASHION DESIGN AND CONSTRUCTION
Year: 1/2 Unit 5
Grade Levels: 10-12
Recommendation: Successful completion of Fashion Design and Construction with a 70% or better.
This course is designed for students wishing to build on prior knowledge and work towards generating designs that take into consideration ecological, environmental, sociological, psychological, technical and economic trends and issues. Materials for sewing projects will be provided by the student.

H7302 INTERIOR DESIGN
Year: 1/2 Unit 5
Grade Levels: 9-12
Recommendation: Successful completion of Fundamentals of Fashion and Interior Design with a 70% or better.
Explore the basic skills needed to design and decorate a home. Students will gain
knowledge needed to begin the design processes, building on the elements and principles of design learned in Fundamentals of Fashion and Interior Design. Students will create projects based on hypothetical client needs and situations, thereby providing a real-world, interior design experience. Materials for sewing and decoration projects will be provided by the students.

**H7303 ADVANCED INTERIOR DESIGN**

Semester: 1/2 Unit
Grade Levels: 10-12
Recommendation: Successful completion of Interior Design with a 70% or better.

This course is for the student wishing to build upon concepts taught in Interior Design. Students will build on prior knowledge and work towards generating projects that take into consideration ergonomics, anthropometrics, human comfort theories, economic trends and issues. Materials for sewing and decoration projects will be provided by the students.

**H7352 INDEPENDENT DESIGN STUDIES**

Semester: 1/2 Unit
Grade Levels: 11-12
Recommendation: Successful completion of Advanced Fashion Design and Construction or Advanced Interior Design with a 70% or better.

This course is an upper level elective practical arts course designed for those students who wish to expand on skills and techniques in one of the design career pathways. Students enrolled in this course will establish goals for growth, engage in community outreach to design businesses and prepare portfolios and collections to use in post-secondary interviews and/or events. Students must be highly motivated to create these original portfolios and collections in a deadline-driven career pathway. Materials for projects will be provided by the students.

**H73645 CULINARY ESSENTIALS**

Semester: 1/2 Unit
Grade Levels: 9-12

Culinary Essentials is the first course students will take in the RayPec Culinary Arts pathway. In this course, students are introduced to essential culinary skills and concepts that can help them in everyday life, but may also spark an interest in a foodservice career. Food safety & sanitation, kitchen safety, careers in the foodservice industry, and food preparation methods are just a few of the concepts discussed. This course is a prerequisite to all upper-level culinary classes, including the National Restaurant Association ProStart Program.

**H73632 BAKING AND FOOD SCIENCE**

Semester: 1/2 Unit
Grade Levels: 9-12
Recommendation: Successful completion of Culinary Essentials with a 70% or better.

Baking and Food Science prepares you for successful careers as baking and pastry professionals through building a foundation of principles and skills, and then using specific application and recipes. Students will be able to prepare a wide array of baked goods, pastries and confections. Students will explore culinary baking topics, baking recipe planning and preparation, preparing recipes, and the science behind baking. Baking and Food Science is an additional choice for students wanting to continue in the culinary department after the initial Culinary Essentials course has been taken. This course is provided as a foundation for ProStart I, but also allows students to move into International Foods if they are not interested in the professional pathway.

**H7371 INTERNATIONAL FOODS**

Semester: 1/2 Unit
Grade Levels: 9-12
Recommendation: Successful completion of Culinary Essentials with a 70% or better.

International Foods allows a student to explore cuisines of the world and the regional areas of the United States. Students will learn about the customs and etiquette of each region and prepare a variety of recipes for each of these regions. Students will also gain a better understanding of how to plan and prepare meals for all areas of the lifespan and areas of specific nutritional needs.

**H73721 PROSTART I**

Year: 1 Unit
Grade Levels: 10-11
Recommendation: Successful completion of Culinary Essentials and International Foods with a 70% or better.

Come explore the foodservice industry as you study as though you are a chef! ProStart I is the first year of a two-year comprehensive program designed by the National Restaurant Association. It is for students who want to pursue a career in the culinary arts. The classroom experience includes time studying the history of the foodservice industry, food safety, restaurant management, communication skills, and culinary concepts. The laboratory experience is intended to give students hands-on experience working in a professional, commercial kitchen. Students will be required to purchase a chef’s coat and appropriate footwear.

Students who have completed the requirements of the ProStart program are awarded an industry-recognized certificate—the ProStart National Certificate of Achievement. To earn the certificate, students pass two national exams, demonstrate a mastery of foundational skills and work 400 mentored hours. Students who receive the certificate are eligible for NRAEF scholarship opportunities and course credits at more than 75 of the country’s leading hospitality and culinary arts colleges and universities.

**H73722 PROSTART II**

Year: 1 Unit
Grade Levels: 11-12
Recommendation: Successful completion of ProStart I with a 70% or better.

ProStart II is the second year of the two-year comprehensive ProStart program. In the second year, students will continue their classroom studies on the restaurant and foodservice industry. Accounting, cost-control, and the decision-making process are just a few of the topics covered in the second year. Students will continue to deepen their knowledge of culinary concepts and gain additional hands-on experience in the culinary lab. Participating in the ProStart program opens the door to a vibrant and growing industry.

National Restaurant Association Foundation ProStart National Certification requires students to:
- Complete ProStart I and II with a minimum grade of a C.
- Pass both level 1 and 2 national tests with a minimum grade of C or better
- Complete 400 mentored hours in industry
- Have 70% of the student competency checklist items checked off by industry mentor and ProStart instructor

**H73724 THE DEN**

Year: 2 Units
Grade Levels: 11-12
Prerequisite: Application and approval letter from instructor

Welcome to The DEN-RayPec High School’s new catering service for events in the Raymore-Peculiar School District. Students who enroll in The Den will play a role in running our catering business; menu planning, costing, food preparation and management are just a few of the skills students will walk away with. Hours spent catering events can be used towards the 400 hours necessary for the ProStart National Certification. This class can be taken simultaneously with ProStart II, and may be taken during the junior AND senior year if the student chooses. Students must go through an application process and receive an approval letter from the instructor before they can enroll.

**H7313 INTRODUCTION TO CAREERS IN HUMAN SERVICES**

Semester: 1/2 Unit
Grade Levels: 9-12
This course is an introduction to the variety of careers within the Human Services Pathway. Students who hold an interest in public service, protective service (police/firemen), social work, counseling, nursing, teaching and/or training will explore these trades with hands-on activities and real-world scenarios. Students will not only learn, practice and develop soft skills that employers demand in today's workplace, but also have an opportunity to explore post-secondary education options for a chosen career in one of these careers. Challenge yourself to make a difference as a leader while exploring this exciting pathway of Human Services.

H7311 PARENTING
Semester: 1/2 Unit
Grade Levels: 11-12
Recommendation: Successful completion of Introduction to Careers in Human Services with a 70% or better.
This course focuses on building strong families for future generations. Parental responsibilities and readiness will be discussed. This course also focuses on the demands of individuals in a parenting role while focusing on the emotional, physical and cognitive development of children. The “Real Care” Baby simulation will be completed by all students in this course.

H7312 CHILD DEVELOPMENT
Semester: 1/2 Unit
Grade Levels: 10-12
Recommendation: Successful completion of Introduction to Careers in Human Services with a 70% or better.
In this course, human development will be studied, beginning with conception through prenatal development and ending at the development of a child at age two. The areas of development covered will include physical, emotional, social and intellectual. This course is designed for all students in grades 10-12 and is especially relevant for students interested in careers that utilize knowledge gained to work with young children. The “Empathy Belly” is used as a hands-on learning experience and will be completed by all students in this course. Parent responsibilities and readiness will be discussed. This course is necessary to help prepare students for the IRC/PrePAC exam at the end of their senior year.

H7982 ADVANCED CHILD DEVELOPMENT
Semester: 1/2 Unit
Grade Levels: 11-12
Recommendation: Successful completion of Child Development with a 70% or better
Prerequisite: Complete application with teacher recommendation
This is an in-depth course studying children from age three to eight. Physical, emotional, social and intellectual development will be covered. Skills such as guidance, safety, child care options, careers and special needs children will be discussed. Students will be working with a licensed early childhood learning professional at Shull Early Learning Center for the second half of this semester course. Students will apply knowledge gained to create lesson plans, bulletin boards, effective and professional communications with parents and complete a case study over one preschool student.

H7982 WORKING WITH YOUNG CHILDREN INTERNSHIP
Year: 2 Units
Grade Levels: 12
Recommendation: Successful completion of Advanced Child Development with a 70% or better
Prerequisite: Complete application with teacher recommendation
Working with Young Children Internship allows seniors to combine classroom experience with work experience. Students will be placed in a child care facility that has partnered with the high school for two consecutive hours (6th and 7th hours). Students will be expected to report to their child care facility in a timely manner. Students enrolled in this course will be working on developing a capstone in an area of child development or early childhood education and/or the completion of elements that would contribute to the individual’s completion of their Child Development Associate and working toward the successful completion of the PrePAC exam. Students who average 10 contact hours will earn ½ credit per semester and ¼ credit per semester for their successful completion of required coursework assigned throughout each semester. Students must be responsible for providing their own transportation, keeping track of their hours worked, and to get their logged hours signed on a bi-monthly basis. Students will meet once a week during Panther Time and be required to complete class work on Canvas.

BUSINESS TECHNOLOGY EDUCATION

H7392 BUSINESS ESSENTIALS
Semester: 1/2 Unit
Grade Levels: 9-12
This is an exploratory business course designed to share many of the business and computing experiences available in the job market today. Students will complete a series of units covering accounting, finance, programming, web design, graphic design, video & multimedia production, marketing, computer operating systems and computer networking. Senior students may enroll in this course 2nd semester concurrently with RP Internship. Students enrolled in RP Internship will meet the COE or Marketing coordinator on a weekly basis during Panther Time.

H7570 MARKETING I
Year: 1 Unit
Grade Levels: 10-12
Prerequisite: 90% attendance and a 2.5 GPA to work in the Panther Market; successful completion of Business Essentials is recommended.
This course is designed to introduce students to broad applications of marketing in all career fields. Topics include pricing, selling, the marketing mix and inventory control. Students will design advertisements, sales promotions and focus on customer service while operating the Panther Market. DECA is a co-curricular club in which students participate.

**H7382 ENTREPRENEURSHIP (THE PANTHER MARKET)**  
**Year:** 1 Unit  
**Grade Levels:** 11-12  
**Prerequisite:** Marketing I, 90% attendance and a 2.5 GPA to work in the Panther Market  
**Prerequisite:** Marketing I is required.  
Learn how to organize and manage your own business or someone else's. Discover how new products, ideas and services are researched, developed, successfully promoted and obtained. Basic financial records, human resources management and skills necessary to effectively lead and supervise other will be discussed. Students will rotate through several shifts in the Panther Market to gain business experience that vary day to day. Students will be responsible for management operations, merchandising, marketing research and product development, and multiple sales transactions. Students will have the opportunity to obtain their food handlers license. Students will join the association for marketing students known as DECA.

**H7574 SPORTS & ENTERTAINMENT MARKETING**  
**Semester:** 1/2 Unit  
**Grade Levels:** 11-12  
This course is designed to explore the sports and entertainment industries, their economic impact, products, management, pricing, promotion, sponsorship, legal issues and career opportunities. This class will take a look at college, amateur and professional sports, the entertainment industry and recreation marketing. Students will join the Association of Marketing Students known as DECA. The units of instruction are supported through active participation in DECA and DECA's competency based competitive events.

**H7272 IB BUSINESS MANAGEMENT**  
**Year:** 1 Unit  
**Grade Levels:** 11-12 Weighted  
The business management course is designed to develop students' knowledge and understanding of business management, as well as their ability to apply a range of tools and techniques. Students learn to analyze, discuss and evaluate business activities at local, national and international levels. The course covers a range of organizations from all sectors and key characteristics of business organization, human resource management, finance and accounts, marketing, and operations management. Students will join the Association of Marketing Students known as DECA. The units of instruction are supported through active participation in DECA and DECA's competency based competitive events.

**H7572 MARKETING II**  
**Year:** 1 Unit  
**Grade Level:** 12  
**Prerequisite:** Marketing I is required.  
**Prerequisite:** 95% attendance  
This course is designed to emphasize marketing research, promotion, selling, new product development, employment and human relations in business. Marketing students will join the Association of Marketing Students known as DECA. The units of instruction are supported through collaborative learning assignments and active participation in DECA. Students may receive articulated credit in BSAD 205 through Metropolitan Community College (MCC) upon successfully completing both semesters earning at least an 80% in the course each semester. MCC then holds the credit until 15 credit hours are earned with MCC.

**H7560 RP INTERNSHIP**  
**Year:** 1/2-2 Units  
**Grade Level:** 12  
**Prerequisite:** 95% attendance  
Marketing RP Internship allows seniors to combine classroom instruction with work experience. Students must be employed to participate in this program in a marketing related job. Students must be enrolled in Marketing I, Entrepreneurship or Marketing II to enroll in Marketing RP Internship. Students will complete internship assignments and keep track of their work schedules. Students will be allowed to leave after 4th period or later to report to their worksite. Students who average 10-19 hours per week earn ½ credit per semester and students who average 20+ hours per week earns 1 credit per semester with required documentation. Requirements: Students must maintain 95% attendance to participate in this program. If 95% attendance is not maintained students will be removed from the program. Students are responsible for obtaining their own job and providing their own transportation to work. Students will be required to meet during Panther Time with the RP Internship coordinator on a weekly basis. Students joining the course second semester will enroll in Business Essentials or Sports & Entertainment Marketing.

**HN7524 DUAL CREDIT COMPUTER CONCEPTS AND APPLICATIONS**  
**CIS 1600:** Business Information Management-UCM  
**Semester:** 1/2 Unit  
**Grade Levels:** 11-12 Weighted, 3 hours of College Credit  
**Prerequisite:** GPA of 3.0 or higher  
This course provides basic technology skills needed for success in college-level coursework and career preparation. Topics include file management on local, network and cloud-based storage media. Additional topics include word processing, spreadsheet, database, and presentation software as well as navigation of web-based information, data security and personal information assurance. Three hours of dual college credit may be earned through the University of Central Missouri (CIS1600): tuition will be paid directly to the university in order to receive college credit.

**H7452 ACCOUNTING I**  
**Year:** 1 Unit  
**Grade Levels:** 10-12  
This course provides an understanding of the basic elements and concepts of double-entry accounting systems. Activities include the accounting equation, the accounting cycle, basic computerized accounting, (using Aplia.com and Microsoft Excel), entering transactions in payroll systems, banking activities, taxes, etc. This class is essential for students who choose the accounting and/or finance career pathways.

**HN7462 DUAL CREDIT ACCOUNTING II**  
**ACCT 2100:** Survey of Accounting-UCM  
**Year:** 1 Unit  
**Grade Levels:** 11-12 Weighted, 3 Hours of College Credit  
**Prerequisite:** A grade of a B- or better in Accounting I and a 3.0 GPA  
This is an intensive year-long course, ACCT 2100 Survey of Accounting (3) Study of elementary financial and managerial accounting to include the preparation and use of accounting statements and use of accounting information for managerial decisions. Three hours of dual college credit may be earned through the University of Central Missouri during the spring semester (ACCT 2100); tuition will be paid to UCM in order to receive college credit.

**H7454 ACCOUNTING III**  
**THE DAILY GRIND**  
**Year:** 1/2 Unit  
**Grade Levels:** 11-12  
**Prerequisite:** Instructor Approval & Concurrent or Successful Completion of DC Accounting II  
Students will run and operate all aspects of the RP Daily Grind coffee shop by maintaining detailed and accurate financial records and keeping track of sales. Students will use the Square (Point of Sale) provides information to forecast future sales and determine product movement. The daily
sales reports, monthly sales report, general journal, general ledgers, worksheet, income statement, statement of changes in equity, balance sheet and inventory are all the responsibilities of these students. Students will work towards Microsoft Excel Specialist Certification. Students may enroll in Accounting III multiple times which will allow them to continue with their Microsoft Office Specialist certification. The next certification will be Word, PowerPoint and finally Access.

**H7402 PERSONAL FINANCE**

**Graduation Requirement**

Semester: 1/2 Unit  
Grade Levels: 10-12  
(Recommended for 11th or 12th grade)  
A calculator is required.

Personal Finance provides instruction on money management skills which includes credit, investments, banking, budgeting, finance of housing/automobiles, taxes and consumer purchases. Students will also learn how to protect themselves against risk and financial loss.

**H7851 BANKING & FINANCE**

Semester: 1/2 Unit  
Grade Levels: 11-12  
Students will learn basic economics, political systems, and different investment strategies. The course will cover the different types of stock, bonds, and mutual funds along with various types of retirement accounts and taxes that investors deal with on a daily basis. Students will also be given the opportunity to play the stock market game as a long-term investor and as a day trader. The course will cover business financial matters such as business cycles, opportunity costs, cost-benefit analysis, methods of financing businesses, loans, stocks and bonds, profit and loss and others.

**H7482 DUAL CREDIT FINANCE**

(FIN 1820: PERSONAL FINANCE GE-UCM)  
Semester: 1/2 Unit  
Grade Levels: 11-12 Weighted, 3 Hours of College Credit  
Prerequisite: Banking & Finance is Recommended

This class is for the student who desires information on managing his/her own personal income. The course will provide instruction on money management skills which includes credit, investing, banking budgeting, finances of housing/automobiles, taxes and consumer purchases. Students will also learn to protect themselves against risk and financial loss. Three hours of dual college credit may be earned through the University of Central Missouri (FIN 1820); tuition will be paid directly to the university to receive college credit. This course meets Missouri’s personal finance course requirement.

**H79791 MEDIA I**

Semester: 1/2 Unit  
Grade Levels: 9-12  
This course is an introduction to video editing. Students will learn Final Cut Software, iTunes, and learn to work with YouTube. Students will be given the hands on opportunity to work with cameras, tripods, sound equipment, and green screens in order to complete classwork assignments. All of the projects are typically done in class therefore making attendance imperative for success in this program.

**H79793 MEDIA II**

Year: 1 Unit  
Grade Levels: 9-12  
Prerequisite: Successful completion of Media I

This is the advanced course in video editing using the Final Cut X software package. Students will be expected to complete tutorials, commercials, music videos, and movie scenes, while also enhancing their photo editing skills. There are "outside of school" requirements to film sporting events and/or gather footage for the senior video. There is a lot of group work to go along with individual tasks throughout the year, and attendance is expected in order to complete projects.

**H32041 KPTV PANTHER TELEVISION**

Year: 1 Unit  
Grade Levels: 10-12  
Prerequisite: Successful completion of Media I

This is the news broadcast class that works with the journalism department to create news videos for the school and raypecnow.com website. Students will get to be reporters, camera operators, and editors in order to put together news stories that are happening around the district. Students will have to come up with story ideas, learn what constitutes news, and learn the difference between what’s good for a video package compared to a print package. Work will be posted to their YouTube account and to RayPecNow.com.

**H7540 COMPUTER SCIENCE ESSENTIALS (PLTW)**

(formerly Intro to Computer Science)  
Year: 1 Unit  
Grade Levels: 9-12  
CS Essentials introduces students to coding fundamentals through an approachable, block-based programming language where they will have early success in creating usable apps. As students sharpen their computational thinking skills, they will transition to programming environments that reinforce coding fundamentals by displaying block programming and text-based programming side-by-side. Finally, students will learn the power of text-based programming as they are introduced to the Python® programming language. This is a course in the Project Lead the Way Computer Science Pathway.

**H7550 VISUAL BASIC PROGRAMMING**

Semester: 1/2 Unit  
Grade Levels: 9-12  
This course introduces fundamental programming concepts using the Visual Basic.NET programming language. Content includes fundamentals of structured programming, arithmetic calculations, decision making, looping, data input and output, numeric and string variables, functions and procedures and arrays. Programming projects includes basic computer games and practical applications. Students will also the talent in front of the camera. This class will be taught concurrently with KPTV. Leadership skills and collaboration with the KPTV students will be an expected roll.

**H7912 GRAPHIC DESIGN**

Semester: 1/2 Unit  
Grade Levels: 10-12  
Prerequisite: Media I is Recommended  
Students enrolled in Graphic Design will use Adobe Photoshop and Microsoft Publisher in learning publishing concepts. An emphasis will be placed on working independently and using creativity to produce a student portfolio.

**H10812 EDU DRONE**

(First offered in Summer of 2019)  
Year: 1 Unit  
Grade Levels: 10-12  
This course is designed to provide students with introductory knowledge about Unmanned Aircraft Systems (drones). Students will learn about large and small type UAS systems, the industries they are revolutionizing, sensor payloads and how to analyze collected data. In addition, students practice with simulated UAS flights and work on their flight skills through the course, preparing them for future FAA certification.
explore career options in the field of computer science.

**H75502 JAVA PROGRAMMING I**

**Semester:** 1/2 Unit  
**Grade Levels:** 9-12  
**Prerequisite:** Successful completion of Visual Basic Programming  
This course is designed for those students seeking additional programming experience while still in high school. Take what you learned in Visual Basic.Net and apply those skills using the Java language, which has become the preferred standard for Computer Science majors and application development communities. This course is a half-year course designed to teach programming fundamentals in Java. Students will gain experience with object-oriented programming and project-based learning utilizing ideas of computer graphics and game programming and its application in building functional programs.

**H75503 JAVA PROGRAMMING II**

**Semester:** 1/2 Unit  
**Grade Levels:** 10-12  
**Prerequisite:** Grade of a B- or better in Java Programming I  
Java Programming II is a higher level study of many advanced Java topics including data structures, file I/O, exception handling, graphics user interface programming, and object-oriented design/programming. Students may take the Java Level 1 Certification at the conclusion of this course.

**H75504 GAME PROGRAMMING**

**Semester:** 1/2 Unit  
**Grade Levels:** 10-12  
**Prerequisite:** Instructor approval or a grade of a B- or better in both Visual Basic Programming and Java Programming I  
If you love games and want to learn how to make them, then this course will start you down that path. Making games is a creative and technical art form. In this course you will familiarize yourself with the tools and practices of game development. You will get started developing your own video games using the industry standard game development tools, including the Unity3D game engine and C#. At the end of the course you will have completed several hands-on projects and will be able to leverage an array of game development techniques to create your own basic games. This course is for individuals interested in becoming a game designer, game artist, or game programmer.

**H75505 MOBILE APPLICATION DEVELOPMENT**

**Semester:** 1/2 unit  
**Grade Levels:** 11-12  
**Prerequisite:** Instructor approval or successful completion of Java 2  
Students learn how to develop applications for mobile devices, including smartphones and tablets. Students are introduced to the survey of current mobile platforms, mobile application development environments, mobile device input methods, as well as developing applications for two popular mobile platforms. Students will design and build a variety of Apps throughout the course to reinforce learning and to develop real competency.

**H780 C++ PROGRAMMING I**

**Semester:** 1/2 Unit  
**Grade Levels:** 9-12  
**Prerequisite:** A grade of a B- or better in Java Programming I or Java Programming II  
CPA: Programming Essentials in C++ covers basic C++ programming skills and object-oriented programming while introducing universal computer programming concepts. Learn to write your own computer programs using one of the most popular programming languages, and prepare for the C++ Certified Associate Programmer Certification (CPA) from the C++ Institute. Students will learn the syntax, semantics, and basic data type of C++ and understand the principles of the object-oriented model and learn how to implement it in C++. The course will conclude with resolving typical implementation challenges with the help of standard C++ language libraries to apply the learned programming skills to write your own computer programs.

**H782 NETWORKING ESSENTIALS**

**Semester:** 1/2 Unit  
**Grade Levels:** 9-12  
**Prerequisite:** Networking Essentials is Recommended  
The RPHS RePair Team is a tech support internship designed to support the 1:1 technology initiative. Students will begin this course by becoming an Acer Certified Technician. Students get experience working in our student ran tech support center. This program has 3 main objectives: support students through troubleshooting and repair, support faculty and staff with technology needs, and pursue independent learning pathways. IT Essentials covers fundamental computer and career skills for entry-level IT jobs. The IT Essentials course includes hands-on labs that provide practical experience to prepare you for enterprise security best practices which will enhance the students’ confidence in communicating their knowledge and work in networking-related professions. This course includes activities that expand on the course material presented. Upon completion of this course, the end-of-course survey, and the end-of-course assessment, the student will receive a Certificate of Completion.

**H75506 CYBERSECURITY (PLTW)**

**Year:** 1 Unit  
**Grade Levels:** 10-12  
**Prerequisite:** Networking Essentials is Recommended  
Cybersecurity is a year long course designed to expose students to the ever-growing and far reaching field of cybersecurity. Students will be exposed to many aspects of digital and information security as well as explore the many career paths available to cybersecurity experts. Units of study include: personal security, system security, network security and applied security.

**H7821 IT ESSENTIALS**

**Year:** 1 Unit  
**Grade Levels:** 10-12  
**Prerequisite:** Networking Essentials is Recommended  
The RPHS RePair Team is a tech support internship designed to support the 1:1 technology initiative. Students will begin this course by becoming an Acer Certified Technician. Students get experience working in our student ran tech support center. This program has 3 main objectives: support students through troubleshooting and repair, support faculty and staff with technology needs, and pursue independent learning pathways. IT Essentials covers fundamental computer and career skills for entry-level IT jobs. The IT Essentials course includes hands-on labs that provide practical experience to prepare you for enterprise security best practices which will enhance the students’ confidence in communicating their knowledge and work in networking-related professions. This course includes activities that expand on the course material presented. Upon completion of this course, the end-of-course survey, and the end-of-course assessment, the student will receive a Certificate of Completion.
networking. Simulation tools help you hone your troubleshooting skills and practice what you learn. This course helps you to develop working knowledge of how computers and mobile devices operate, identify common security threats and vulnerabilities like malware, phishing, spoofing and social engineering, apply skills and procedures to install, configure, and troubleshoot computers, mobile devices, and software and finally, develop critical thinking and problem solving skills using both real equipment and Cisco Packet Tracer, a network configuration simulation tool.

H32201 JOURNALISM 1
Year: 1 Unit
Grade Levels: 9-12
The course provides each student with an introduction to the skills used in student media. Students will prepare to work on the school publications. The class will address reporting, writing, copy editing, basic photography, skills in design and layout. In order to enroll in subsequent journalism courses you must pass this course with a C or better and complete an application in room 202.

H32202 JOURNALISM 2
Year: 1 Unit
Grade Levels: 10-12
Prerequisite: Journalism 1
Students in this course will work for the student media team, RayPecNOW. Students will build upon skills developed in Journalism 1 as well as address a deeper understanding for student media. In this course time will be specifically dedicated to refining skills in coaching writers, editorial leadership, branding, photo management, editorial policy, theme development, and deadline management. Students should be advised this course will require time outside of the class to complete assignments.

H32203 JOURNALISM 3
Year: 1 Unit
Grade Levels: 11-12
Prerequisite: Journalism 2
Students in this course will work for the student media team, RayPecNOW. Students will build upon skills developed in Journalism 1 and 2 as well as address a deeper understanding for student media. In this course time will be specifically dedicated to refining skills in coaching writers, editorial leadership, branding, photo management, editorial policy, theme development, and deadline management. Students should be advised this course will require time outside of the class to complete assignments.

H32204 JOURNALISM 4
Year: 1 Unit
Grade Level: 12
Prerequisite: Journalism 3
Students in this course will work for the student media team, RayPecNOW. Students will build upon skills developed in Journalism 1-3 as well as address a deeper understanding for student media. In this course time will be specifically dedicated to refining skills in coaching writers, editorial leadership, branding, photo management, editorial policy, theme development, and deadline management. Students should be advised this course will require time outside of the class to complete assignments.

H3221 NEWS BUREAU
Semester: 1/2 Unit
Grade Levels: 11-12
Prerequisite: Recommendation by communication arts teacher or experience in journalism courses as well as a completed application found in room 202.
News Bureau will provide students with an introduction to public relations work. Students will write press releases, develop publicity plans for school events and design various newsletters. The class will act as an intermediary between the community and the high school by providing information to both internal and external media. Repeatable for credit.

H7611 CAD I
Year: 1 Unit
Grade Levels: 9-12
Prerequisite: C or better in CAD I
CAD I (Computer Aided Drawing) is designed to provide the student with fundamental knowledge and skills in CAD and engineering. Students will develop math and measuring skills as they relate to the industry. Orthographic Projection will be used to create multi-view, isometric and section views applying ANSI (American National Standards Institute) and ISO (International Standards Organization) standards for mechanical drawings using AutoCAD. Experiences, knowledge and skills acquired in this class will be a valuable asset to those seeking careers in engineering, technical engineering, manufacturing and industrial fields. This course may be offered for dual credit pending MCC approval.

H7621 CAD II
Year: 1 Unit
Grade Levels: 10-12
Prerequisite: C or better in CAD I
CAD II is offered for those who wish for additional training and experience in CAD (Computer Aided Drawing). CAD II will be a continuation of CAD I building on the use of descriptive geometry to create mechanical drawings using AutoCAD. The student will now be instructed in the use of auxiliary views, pattern development, threads and fasteners, gears and cams. The student will complete all drawings applying ANSI (American National Standards Institute) and
ISO (International Standards Organization) standards as used in manufacturing industries.

**H76211 CAD III**
- **Year:** 1 Unit
- **Grade Levels:** 11-12
- **Prerequisite:** C or better in CAD II

CAD III is a class designed for the student who may be interested in pursuing a career in engineering and/or architecture. CAD III will focus on previously learned procedures and standards but students will now apply them using different software. Three dimensional (3D) parts and features will be created using the AutoDesk Inventor program. AutoDesk Revit will be utilized to create architectural drawings. The architectural portion of the course will deal with principles involved in site selection, room planning, exterior styling and designing structural elements of residential dwellings.

**H76622 TECHNOLOGY & ENGINEERING I**
- **Semester:** 1/2 Unit
- **Grade Levels:** 9-12

The Technology I course gives students the opportunity to investigate technology through project based activities. This hands-on class will concentrate on several of the main technology areas including: communication, manufacturing, construction, and other current technologies. Each topic will involve a student produced project.

**H76722 TECHNOLOGY & ENGINEERING II**
- **Semester:** 1/2 Unit
- **Grade Levels:** 10-12

Prerequisite: Strongly recommend a C- or better in Technology & Engineering I

This is an advanced exploratory course where students will be introduced to technology which promotes technical literacy. The focus of this course will be hands-on construction of projects and literacy relevant in today’s technological world. Projects are designed to include several construction processes. Students will receive instruction in woodworking, soldering, sheet metal layout and manufacturing, gear application and sketching to build a motorized RC Slot car.

**H76723 TECHNOLOGY & ENGINEERING III**
- **Semester:** 1/2 Unit
- **Grade Levels:** 11-12

Prerequisite: Strongly recommend a C- or better in Technology & Engineering II

Technology & Engineering III will expand the knowledge of students garnered in Technology & Engineering I and II. The focus of this course will cover three main technology areas: power and energy and small engine maintenance. The power and energy unit will focus on solar and wind power projects. The small engine unit will incorporate the use of small engine disassembly and assembly.

**H7742 MATERIALS & PROCESSES I**
- **Semester:** 1/2 Unit
- **Grade Levels:** 9-12

Students will be involved in a variety of activities that deal with two principal material types: woods and metals. The student will also be given information required to use hand and power tools safely and effectively. A variety of techniques will be used to construct projects that not only teach about the materials but also about the processes needed to construct them. This course is designed to build upon and apply what has been learned in other academic areas such as science and math. Potential projects: tool tray, cell phone holder, cast pewter object, wooden pen, segmented basket, and a roll top wooden bread box.

**H7751 MATERIALS & PROCESSES II**
- **Year:** 1 Unit
- **Grade Levels:** 10-12

Prerequisite: Successful completion of Materials & Processes I

Students will be involved in a variety of advanced activities dealing with various materials used in industry such as wood, metal, plastic, composites and glass. Use of machine tools such as engine lathes, mills and precision-measuring devices will be utilized. Students will be encouraged to build upon principles and knowledge learned in Materials and Processes I such as design concepts, safe use of tools and equipment, and material selection. Students will be introduced to industry concepts such as mass production, quality control and precision inspection. Projects: sheet metal barbeque grill, round top double twist pen, machinist hammer, plastic laminate cabinet and tapered ringed bowl. Strongly recommend a C- in Materials & Processes I.

**H7772 DESIGN & CONSTRUCTION**
- **Semester:** 1/2 Unit
- **Grade Levels:** 9-12

Students will be given challenges to conduct, investigate, research and apply practical knowledge. Students will use ingenuity and creativity to create solutions to problems. Activities will include designing and building a balloon vehicle, balsa wood bridge, mini-catapult/trebuchet. Students will work as individuals on some assignments and as a team member on others. Materials and Processing and/or CAD will be helpful but not required.

**H7781 HOME MAINTENANCE & REPAIR I**
- **Semester:** 1/2 Unit
- **Grade Levels:** 9-12

This course is designed and taught as a life skill course that is applicable to all students. Students will learn information needed to understand and use hand tools, power tools, fasteners and assorted building materials for the maintenance, repair and improvement of the home. The students will learn safe use of tools and the current most effective repair practices. The student will gain knowledge of the various systems and structures within the home that require routine maintenance. This course is structured so that the students will learn how to improve a home rather than just repair it. Areas covered are drywall, electrical, wallpaper, vinyl, flooring, painting, tile, trim, and adhesives.

**H77811 HOME MAINTENANCE & REPAIR II**
- **Semester:** 1/2 Unit
- **Grade Levels:** 10-12

Prerequisite: Successful completion of Home Maintenance and Repair I

This course is designed as an advanced life skills course that is applicable to students pursuing further in-depth knowledge about home repairs. Students will build upon the knowledge and principles learned in the prerequisite class, Home Maintenance and Repair I, relating to equipment, safe use of tools, maintenance and repair. The students will learn the current and most effective repair practices associated with doors and windows, home security, roofing, plumbing, concrete and masonry, insulation and weatherization. Student knowledge will be gained by demonstrations and project based activities. Strongly recommend a C- in Home Maintenance & Repair I.

**H7790 INTRODUCTION TO ENGINEERING DESIGN (IED-PLTW)**
- **Year:** 1 Unit
- **Grade Levels:** 9-12

Prerequisite: Successful completion of Algebra I or concurrently taking Algebra I.

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work. This is the first course in the Project Lead the Way engineering pathway.

**H77910 COMPUTER INTEGRATED MANUFACTURING (CIM-PLTW)**
- **Year:** 1 Unit
- **Grade Levels:** 10-12

Prerequisite: Successful completion of IED

This course is designed to expose students to the fundamentals of computerized manufacturing technology. The course is built around several key concepts: Computer Modeling—using a three dimensional, solid modeling software package with mass
property analysis. CNC Equipment - understanding the machine tools and its operating and programming aspects. CAM Software - converting computer generated geometry into a program to drive CNC machine tools. Robotics - using a robot for materials handling and assembly operations. Flexible Manufacturing Systems - working in teams to design manufacturing work cells and tabletop factory simulations.

**H7791 PRINCIPLES OF ENGINEERING (POE-PLTW)**

*Year:* 1 Unit  
*Grade Levels:* 10-12  
*Prerequisite:* Successful completion of IED

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. This is an additional course in the Project Lead the Way pathway.

**H77901 ENGINEERING DESIGN AND DEVELOPMENT (EDD--PLTW)**

*Year:* 1 Unit  
*Grade Levels:* 12  
*Prerequisite:* Successful completion of IED and either POE or CIM

EDD is the capstone course in the PLTW high school engineering pathway. It is an open-ended engineering research course in which students work in teams to design and develop an original solution to a well-defined and open-ended problem by applying an engineering design process. After defining the problem, students select an approach, create and then test their solution prototype.
### FINE ARTS OFFERINGS

The mission of the Visual Arts Program is to provide students a solid foundation in the visual arts, which includes knowledge of the processes and techniques of art production, arts in historical and cultural contexts, and criticism of art and its aesthetics in the everyday world.

The mission of the Theatre program at RPHS is to provide quality learning opportunities for students interested in the performance, technical, and literary aspects of professional theatre production.

The mission of the (Vocal/Instrumental) Music Program is to develop a student’s musical skills to the highest degree possible through practice, performance and competition so as to provide them with a lifelong appreciation for the necessity of music in our lives, the arts in general and to prepare them for continued study at the college level if they choose.

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### VISUAL ARTS

#### LEVEL I

**H7000 ART HISTORY**

*Semester:* 1/2 Unit  
*Grade Levels:* 9-12  
Discover the history of the visual arts. Students will be exposed to a rich and diverse timeline of various art movements, styles, works and artists. Methods of instruction include lecture, discussions, note taking, testing and projects geared toward each unit.

**H7013 ART FOUNDATIONS**

*Semester:* ½ Unit  
*Grade Levels:* 9-12  
This course will focus on the elements of art and principles of design while incorporating art history, art criticism, and a balance between studio projects and classwork.

#### LEVEL II

**H7041 FIBERS**

*Semester:* 1/2 Unit  
*Grade Levels:* 9-12  
**Prerequisite:** Successful completion of of Art Foundations  
This visual arts class explores the “Lost Arts”: fabric dyeing, quilting, weaving and paper-making and felting.

**H70152 DIGITAL PHOTOGRAPHY I**

*Semester:* 1/2 Unit  
*Grade Levels:* 9-12  
**Prerequisite:** Successful completion of of Art Foundations  
A digital camera and flash drive is required along with spending time outside of class taking photos. Using the artistic eye through digital photography and photo manipulation, students will use the elements and principles of art to capture images. Students will be exposed to the concepts that make a quality, fine art photograph. Various subject matters and photography styles will be covered and Photoshop will be introduced.

**H7022 FUNDAMENTALS OF DRAWING**

*Semester:* 1/2 Unit  
*Grade Levels:* 9-12  
**Prerequisite:** Successful completion of of Art Foundations  
This course is for the student wishing to further develop and refine drawing skills already in place. Direct observation and still life drawing will be used while exploring various black and white mediums. Students will be required to keep a drawing kit used every class period, and draw in class daily.

**H70510 DESIGN AND DIGITAL MEDIA**

*Semester:* 1/2 Unit  
*Grade Levels:* 9-12  
**Prerequisite:** Successful completion of of Art Foundations  
This course will focus on design concepts and visual communication. Basic layout design, typography, logo construction and advertising design is explored with handcrafted and computer aided projects. Strong emphasis is placed on meticulous, professional craftsmanship.

**H7132 CERAMICS I**

*Semester:* 1/2 Unit  
*Grade Levels:* 9-12  
**Prerequisite:** Successful completion of of Art Foundations  
This class is designed to build a strong foundation in hand-building methods. Students will create projects using the slab, coil, and pinch method. After completion of this class, students will have an understanding of glazes, surface decoration techniques and clay as a medium. Earthenware will be the medium used.

**H7082 SCULPTURE**

*Semester:* 1/2 Unit  
*Grade Levels:* 9-12  
**Prerequisite:** Successful completion of of Art Foundations  
In this class students will create three-dimensional works of art using a variety of additive and subtractive techniques.
Projects include cardboard, found objects and other sculptural material.

H7053 PRINTMAKING
Semester: 1/2 Unit
Grade Levels: 9-12
Prerequisite: Successful completion of Art Foundations
This course will encourage students to experiment with a wide range of printing techniques from the past and present. Students will learn traditional techniques of relief and etching to “pull prints”. Inventive approaches, including the use of rubbing, stamping, monotypes, stencils, and silk screening will be explored.

LEVEL III
H7962 CERAMICS II
Semester: 1/2 Unit
Grade Levels: 11-12
Prerequisite: Successful completion of Art Foundations and Ceramics I
In this course, students will continue developing hand-building skills as well as create pottery on the potter’s wheel. Students will critique works made in Ceramics II; higher expectations will be placed on craftsmanship and creativity.

H7092 SCULPTURE II
Semester: 1/2 Unit
Grade Levels: 10-12
Prerequisite: Successful completion of Art Foundations and Sculpture I
In this course, students will delve deeper into the world of sculpture. After Sculpture I, students have a brief understanding of concepts. In Sculpture II, they will do more with artist research as well as more difficult projects such as carving in the round, wire sculptures and mobiles.

H70153 DIGITAL PHOTOGRAPHY II
Semester: 1/2 Unit
Grade Levels: 10-12
Prerequisite: Successful completion of Art Foundations and Digital Photography I
In this course, students will expand on their knowledge of photography while creating a digital portfolio of their work. Shooting photos outside of class will be required along with owning a digital camera and SD card. Many outlets of expression through images will be explored along with making statements through photography.

H7062 PAINTING I
Semester: 1/2 Unit
Grade Levels: 10-12
Prerequisite: Art Foundations, and Fundamentals of Drawing
In this class students will explore a range of painting mediums and techniques while studying a variety of painting styles. Strong drawing skills and self motivation are essential in this course. Students will explore various subjects while painting on diverse grounds and learning about paint preparation and presentation.

H7023 ADVANCED DRAWING
Semester: 1/2 Unit
Grade Levels: 10-12
Prerequisite: Successful completion of Art Foundations, and Fundamentals of Drawing
This course provides students with additional approaches to drawing. Students will experience in-depth visual concepts, color applications, various media and techniques during the first twelve weeks. The last six weeks, students will produce works from their imagination using their style as a stepping stone.

H70620 PAINTING II
Semester: 1/2 Unit
Grade Levels: 11-12
Prerequisite: Successful completion of Painting I
This class will build on the skills taught in Painting I and introduce oil medium. Students will learn to stretch and prime a canvas and become more comfortable with both water and oil based mediums.

H7070 INDEPENDENT ART STUDY
Semester: 1/2 Unit
Grade Levels: 11-12
Prerequisite: Requires prior approval by teacher
Independent Art Study is an upper level elective course designed for those students who wish to expand on skills and techniques in one area of art. Students taking the course will establish goals for individual growth, style creation and exploration of their interests in one area of art. After discussing their goals for each 9 week period, the teacher and student will establish an expected number of projects and assignments along with setting due dates for completion. Students must be high self-motivated in order to create original ideas/subject matter and to work at a pace that will stay in alignment with the due dates they have agreed upon with their instructor. Along with studio-based production, students will be assigned other projects that may involve but are not limited to critiquing, writing, reading, researching, presenting and taking a final exam.

LEVEL IV
HN7063 AP STUDIO ART
Year: 1 Unit
Grade Levels: 11-12 Weighted
Prerequisite: Successful completion of Art Foundations, Fundamentals of Drawing and Painting: art teacher recommendation; portfolio interview
The Advanced Placement Studio Art/Drawing/2D/3D course is a college-level course in the visual arts. Emphasis is on advanced art skills. This course is intended to offer the student a college-level curriculum in the high school environment. Students who successfully complete the course can request credit from the college or university they will attend. The awarding of college credit for AP scores is at the discretion of the individual schools. A college board will review a student’s portfolio before awarding advanced credit. Pick up portfolio review sheet from the counseling office. There is a $50 Supply fee for this course. Students must turn in their portfolio for weighted credit.

H7812 INTRODUCTION TO THEATRE
Semester: 1/2 Unit
Grade Levels: 9-12
Prerequisite: Successful completion of Intro to Competitive Theatre or middle school Theatre Arts
This course will serve as a first step in the student’s exploration of the art of theatre. Theatre literature, production practices, acting techniques, history and traditions will be studied. We will read plays and perform duet scenes. Taking this class makes the student eligible to take the High School Acting class.

H7282 ACTING
Semester: 1/2 Unit
Grade Levels: 9-12
Prerequisite: Successful completion of Intro to Competitive Theatre or middle school Theatre Arts
Acting is a class designed for the student with an interest in performance and acting techniques. The class will feature discussion of the essentials of acting and will provide opportunity for the application of these skills through the preparation of acting scenes. The final project for the course will consist of participation in the presentation
H7281 ADVANCED ACTING
Semester: 1/2 Unit
Grade Levels: 10-12
Prerequisite: Successful completion of Acting
Advanced acting is a course designed for students with an intense interest in the art of acting. The course will build on and further skills developed during Acting class. Monologues, scene work, and improvisation will be explored on a deeper level to enhance student abilities and prepare students interested in pursuing theatre beyond the secondary level.

H7242 DIRECTING I
Semester: 1/2 Unit
Grade Levels: 10-12
Prerequisite: Course enrollment by instructor approval
Directing I is a special projects class designed for the student with a strong interest in theatre. The class will feature instruction in the basics of directing and will provide students with hands-on opportunities in the direction of scenes. The course will be held in conjunction with a basic acting class which will supply the talent for the various productions.

H7241 DIRECTING II
Semester: 1/2 Unit
Grade Levels: 11-12
Prerequisite: Course enrollment by instructor approval
Directing II is a special projects class designed for the student who wishes to pursue theatre beyond the secondary level. The class will feature instruction on advanced directing concepts and will provide students with hands-on opportunities to direct play productions. The course will be held in conjunction with an acting class, which will supply the talent necessary for the various productions.

H3322 INTRODUCTION TO COMPETITIVE THEATRE
Semester: 1/2 Unit
Grade Levels: 9-12
Students will study the presentation of dramatic and humorous interpretations, prose and poetry readings, storytelling, duet acting. Students will have the opportunity to participate in interscholastic speech contests. Taking this class enables students to take the High School Acting class.

H3332 ADVANCED COMPETITIVE THEATRE
Semester: 1/2 Unit
Grade Levels: 9-12
Prerequisite: Successful completion of Introduction to Competitive Theatre or permission of the instructor
Students will study, in detail, the presentation of events currently used in forensics competition. Techniques to enhance the performance skills of the competitor will be employed. The individual events prose, poetry, HI, DI, duo, storytelling, oratory and extemp will be the focus of the class. Students enrolled in the class are expected to attend interscholastic forensics competitions. This class is repeatable for credit.

H3333 ADVANCED COMPETITIVE THEATRE (SPRING)
Semester: 1/2 Unit
Grade Levels: 10-12
Prerequisite: Successful completion of Introduction to Competitive Theatre and competition at three interscholastic high school forensics tournaments or audition for the instructor
Students will study, in detail, the presentation of events currently used in forensics competition. Techniques to enhance the performance skills of the competitor will be employed. Competitive reader’s theatre and one-act plays will be the focus of this class. Students enrolled in the class are expected to attend interscholastic forensics competitions. This class is repeatable for credit.

HN7285 DUAL CREDIT DISCOVERING THEATRE
Semester: 1/2 Unit
Grade Levels: 11-12 Weighted, 3 Hours of College Credit
Discovering Theatre is a college-level course offered through the University of Central Missouri. It is an extensive examination of theatre as a living and viable artistic medium. The course develops the student’s understanding of theatre in the following areas: the purpose of theatre; the role of the audience; dramatic literature and structure; the roles of actors, directors, designers, and technicians; and a historical perspective. This course is designed to meet university general studies requirements in fine arts. Students will receive 3 hours of college credit through UCM if they choose to pay the enrollment fee.(THEA 2400).

H7272 CREATIVE THEATRE WORKSHOP
Semester: 1/2 Unit
Grade Levels: 10-12
This class focuses on stimulating imagination and creativity using several non-traditional forms of theatre, such as Storytelling, Puppetry, Improvisation, Mask-Making and Reader’s Theatre. Students will actively
participate in a variety of activities and projects pertaining to these unique and entertaining elements of theatre. No previous theatre experience needed—just a hearty interest in working creatively!

HI 27010 IB THEATRE ARTS SL 1A
Semester: 1/2 Unit
Grade Level: 11 Weighted
Prerequisite: Successful completion of Introduction to Theatre or Introduction to Competitive Theatre

IB Theatre Arts SL 1 is an advanced level course for juniors. This SL sequence is for IB students using theatre for their group six. It is taught within the Directing 1 theatre course. The student will participate in all lessons in Directing 1 as well as individual projects in theatre production, literature, and study of special topics. Writing skills will be utilized extensively in this course, as well as performance skills. This is a semester 1 only course. Students enrolling in IB Theatre Arts 1A will be required to enroll in IB Theatre Arts 1B during semester 1 of their Senior year.

IB THEATRE COURSES

HI 27012 IB THEATRE ARTS SL 1B
Semester: 1/2 Unit
Grade Level: 12 Weighted
Prerequisite: Successful completion of IB Theatre Arts SL 1A

IB Theatre Arts SL IB is an advanced level course for seniors. This SL sequence is for IB students using theatre for their group six. It is taught within the Discovering Theatre course. The student will participate in all lessons in Discovering Theatre as well as individual projects in theatre production, literature, and study of special topics. Writing skills will be utilized extensively in this course, as well as performance skills. This is a semester 1 only course. Students will be required to complete an independent project before the beginning of the course.

HI260 IB FILM
Year: 1 Unit
Grade Levels: 11-12 Weighted

IB Film SL is a one-year course students may take in either their 11th or 12th grade year. The IB Film course teaches students to become practiced in both interpreting and making film. Through the study and analysis of film texts and exercises in filmmaking, this course explores film history, theory and socio-economic background from the points of view of different individuals, nations and cultures. Students also focus on professional and technical skills to express themselves creatively in film. The course emphasizes the importance of working individually and as a member of the group. In addition, the course is designed to promote an appreciation and understanding of film as a complex art form, an ability to formulate stories and ideas in film terms, the practical and technical skills of production, critical evaluation of film productions by the student and by others, and a knowledge of film making traditions in more than one country.

VOCAL MUSIC

H71812 FRESHMAN TREBLE CHOIR
Year: 1 Unit
Grade Level: 9

Freshman Treble Choir is open to any 9th grade treble singer. This class is designed to develop a treble singing voice, ear training, and competency in reading two-three- and four-part music. A variety of musical styles is presented. Work includes singing exercises to build and strengthen the voice and improve diction, breath support, and resonance. Solfeggio is used to aid sight reading. This is a performance-oriented class. Attendance is required at all rehearsals and performances.

H71611 BELLA ARMONIA
Year: 1 Unit
Grade Levels: 10-12
Prerequisite: By audition only

Bella Armonia is a small, highly select group of treble voices who sing multiple division music. A wide variety of music is studied, rehearsed and performed, including pop, jazz, renaissance, and contemporary. Singing tests, written tests and written music theory work will be incorporated. Performances are a major part of this class and a variety of choral compositions of contrasting styles and periods will be used. Attendance is required at all rehearsals and performances.

H7162 CONCERT CHOIR
Year: 1 Unit
Grade Levels: 10-12
Prerequisite: By audition only

Concert Choir is the primary performing ensemble of Raymore-Peculiar High School. This class is designed as an advanced mixed choral ensemble for the dedicated, serious musician. Work will be done to further develop the singing voice, reading independence, vocal production, diction, breath support and performance skills. Singing tests, written tests and written music theory work will be incorporated. Performances are a major part of this class and a variety of choral compositions of contrasting styles and periods will be used. Attendance is required at all rehearsals and performances.

INSTRUMENTAL MUSIC

All students will audition to be placed into the appropriate band course.

H7231 CONCERT BAND
Year: 1 Unit
Grade Levels: 9-12
Prerequisite: Successful completion of band the previous semester. Students who did not attend Ray-Pec for the prior year will require approval by the instructor.

The Concert Band course is a full year band course designed to advance each student's musical abilities. All students will audition to be placed into the appropriate band course.
course. Students will participate in Marching Band during the fall semester. Students will also prepare music for multiple concerts throughout the year. All students are encouraged to audition for All-District Band and perform a solo and/or small ensemble at a music festival.

H7235 SYMPHONIC BAND
Year: 1 Unit
Grade Levels: 9-12
Prerequisite: Successful completion of a band class. Students must have participated in band the previous semester. Student who did not attend Ray-Pec for the prior year will require approval by the instructor.
The Symphonic Band course is a full year band course designed to advance each student’s musical abilities. All students will audition to be placed into the appropriate band course. Students will participate in Marching Band during the fall semester. Students will also prepare music for multiple concerts throughout the year. All students are strongly encouraged to audition for All-District Band and perform a solo and/or small ensemble at a music festival.

H72402 WIND SYMPHONY
Year: 1 Unit
Grade Level: 9-12
Prerequisite: Successful completion of a band class. Students must have participated in band the previous semester. Student who did not attend Ray-Pec for the prior year will require approval by the instructor.
The Wind Symphony course is a full year band course designed to advance each student’s musical abilities. All students will audition to be placed into the appropriate band course. Students will participate in Marching Band during the fall semester. Students will also prepare music for multiple concerts throughout the year. All students will audition for All-District Band and perform a solo and/or small ensemble at a music festival.

NOTICE: Students enrolled in this class are required to attend Summer Band Camp and all scheduled outside-of-class rehearsals and events as part of the grade for this course.

H7235 PERCUSSION ENSEMBLE
Year: 1 Unit
Grade Levels: 9-12
Prerequisite: By audition only
Percussion ensemble is a class dedicated to the unique needs of the concert percussionist. Students will enhance their skills on a variety of percussion instruments, including snare drum, cymbals, timpani, keyboard instruments, auxiliary instruments and more. The ensemble will focus on enhancing each student’s technique on several instruments and will perform concerts throughout the school year.

H723 STRINGS
Year: 1 Unit
Grade Levels: 9-12
This is an introductory course designed to develop skills on string instruments (violin, viola, cello, string bass), from beginning to intermediate levels, in an orchestral setting. The course of study will include ear training, sight-reading, chamber music, jazz/fiddling technique, and standard orchestra literature. Public performances are required.

H7252 MUSIC APPRECIATION
Semester: 1/2 Unit
Grade Levels: 10-12
This class is a survey of music throughout history with an emphasis on American music. Students will develop listening skills to distinguish many styles of music and explore the basic elements of music through listening, writing, analyzing and performing.

HN7252 ADVANCED PLACEMENT MUSIC THEORY
Year: 1 Unit
Grade Levels: 11-12 Weighted
Prerequisite: At least two years of high school music (band or choir) or instructor approval
Music Theory is a course designed for advanced students who want to pursue a career in music or want to develop a deeper understanding of how music works. Students will learn skills and study concepts concerning acoustics, music notation, intervals and scales, chords, melody writing, four-part chorales, harmonization and more. In order to receive credit, students must take the AP exam in the spring.

H7234 GUITAR CLASS
Semester: 1/2 Unit
Grade Levels: 10-12
Guitar class is a course designed for the beginning guitar player. Students will learn to read the treble clef, tune their guitar, play chords, and melodies as well as tablature. Through the playing of the guitar, students will become familiar with classical, folk and popular music styles and play various guitar exercises.
HEALTH AND PHYSICAL EDUCATION OFFERINGS

The mission of the high school physical education department is to develop individuals who can understand and practice personal behaviors to ensure their own health and general wellness. Physical education integrates all aspects of a person’s development: physical, mental, emotional and social. Our curriculum provides a broad and varied base of activities and concepts related to personal health and lifetime wellness. Only one PE course may be taken each semester.

H8092 HEALTH
Semester: 1/2 Unit
Grade Levels: 9 Required
Health is designed for all incoming freshmen. The purpose is to give all students the understanding of the importance of; how to develop a healthy foundation and lifestyle, physical activity and nutrition, having good mental health and emotional health, having safe and healthy relationships, as well as personal care and body systems. Students will also learn about; injury prevention and environmental health, growth and development, sexual education, tobacco, alcohol and other drugs, as well as diseases and disorders. Students who transfer in without a health class will be required to take this class prior to graduation.

H8002 GIRLS PHYSICAL EDUCATION
Semester: 1/2 Unit
Grade Level: 9 required
Physical Education is designed for every student to have the opportunity to be successful. Students will have an opportunity to develop positive social skills, be involved in a variety of activities, develop individual responsibility, and develop a foundation for future physical education offerings.

H8003 BOYS PHYSICAL EDUCATION
Semester: 1/2 Unit
Grade Level: 9 required
Physical Education is designed for every student to have the opportunity to be successful. Students will have an opportunity to develop positive social skills, be involved in a variety of activities, develop individual responsibility, and develop a foundation for future physical education offerings.

H8004 9TH GRADE WEIGHT TRAINING
Semester: 1/2 Unit
Grade Level: 9
This freshman class is designed to help students develop and increase strength through a systematic and regular program of lifting weights. A 9th grade student may take this course instead of Boy’s/Girl’s PE to satisfy the Level 1 PE requirement.

H8022 INDIVIDUAL & DUAL SPORTS (FALL)
Semester: 1/2 Unit
Grade Levels: 10-12
This course is designed to provide students with general skills and knowledge of individual and dual sports for the fall season of the year. May include the following sports, but not limited to: tennis, volleyball, badminton and disc golf.

H8032 INDIVIDUAL & DUAL SPORTS (SPRING)
Semester: 1/2 Unit
Grade Levels: 10-12
This class is designed to provide students the opportunity to improve skills and knowledge of individual and dual sports for the spring season of the year. May include the following sports, but not limited to: floor tennis, badminton, volleyball and golf.

H8062 SOCIAL DANCE
Semester: 1/2 Unit
Grade Levels: 10-12
This course will offer a variety of dances ranging from folk and American square dances to popular ballroom dance and country dances of today and earlier years.

H8072 BOYS COMPETITIVE TEAM SPORTS (FALL)
Semester: 1/2 Unit
Grade Levels: 10-12
This class is designed to provide students with opportunity to improve skills and knowledge of team sports. May include but not be limited to: soccer, volleyball, flag football and team handball. Theory of these sports will also be emphasized.

H8082 BOYS COMPETITIVE TEAM SPORTS (SPRING)
Semester: 1/2 Unit
Grade Levels: 10-12
This class is designed to provide students with opportunity to improve skills and knowledge of team sports. This may include but not be limited to: basketball, softball, lacrosse and floor hockey. Theory of these sports will also be emphasized.

H8102 FIRST AID
Semester: 1/2 Unit
Grade Levels: 10-12
Basic procedures will be taught for immediate emergency care situations. Fundamental care and prevention will be taught.
for the most common injury and illness areas. Students will also learn basic fundamentals of CPR from certified staff members. This course does not meet the health or PE requirement.

**H8122 PHYSICAL FITNESS I**

**Semester:** 1/2 Unit  
**Grade Levels:** 10-12  
This class is designed to help develop strength and endurance. This is an intense activity based class. Students are expected to perform at high levels. Students will have the opportunity to learn about bone and muscle structure, the importance of proper exercise and how to maintain good physical condition.

**H8132 AEROBICS**

**Semester:** 1/2 Unit  
**Grade Levels:** 10-12  
This class is designed to increase cardiovascular fitness and tone up specific muscle groups to music and videos. Students will learn what exercises are appropriate for toning specific muscle. Students will also learn about nutrition and muscle groups.

**H8162 WEIGHT TRAINING I (FALL)**

**Semester:** 1/2 Unit  
**Grade Levels:** 10-12  
This class is designed to help develop and increase strength through a systematic and regular program of lifting weights.

**H81731 ADVANCED WEIGHT TRAINING (FALL)**

**Semester:** 1/2 Unit  
**Grade Levels:** 10-12  
**Prerequisite:** Successful completion of Weight Training I  
This is an extremely high intensity course designed to meet the needs of highly motivated students. Students will workout each day the class meets. Students should expect to work extremely hard and see significant increases in strength and power. This course may be taken multiple times for additional credits.

**H81732 ADVANCED WEIGHT TRAINING (SPRING)**

**Semester:** 1/2 Unit  
**Grade Levels:** 10-12  
**Prerequisite:** Successful completion of Weight Training I  
This is an extremely high intensity course designed to meet the needs of highly motivated students. Students will workout each day the class meets. Students should expect to work extremely hard and see significant increases in strength and power. This course may be taken multiple times for additional credits.

**H8182 GIRLS TEAM SPORTS (FALL)**

**Semester:** 1/2 Unit  
**Grade Levels:** 10-12  
This class is designed to provide students the opportunity to improve skills and knowledge of team sports. It may include but not be limited to: softball, flag football, soccer, volleyball, basketball and team handball.

**H8182 GIRLS TEAM SPORTS (SPRING)**

**Semester:** 1/2 Unit  
**Grade Levels:** 10-12  
This class is designed to provide students the opportunity to improve skills and knowledge of team sports. It may include but not be limited to: softball, flag football, soccer, volleyball, basketball and team handball.

**H8191 RECREATIONAL ACTIVITIES**

**Semester:** 1/2 Unit  
**Grade Levels:** 10-12  
This course is designed to provide students with general skill and knowledge of recreational activities. This may include four core units: (1) Hiking; (2) Horseshoes, croquet, (3) Marksmanship (hunter’s safety course is included) and table tennis; (4) Archery.

**H8201 ATHLETIC TRAINING**

**Semester:** 1/2 Unit  
**Grade Levels:** 10-12  
The purpose of this course is to facilitate student learning in the science of injury prevention, treatment, and rehabilitation related to sports management. Students may have the opportunity to participate in experiences outside of class with medical professionals as well as explore various sports medicine fields. This course does not meet the health or PE requirement.

**H8202 ADVANCED ATHLETIC TRAINING**

**Semester:** 1/2 Unit  
**Grade Levels:** 10-12  
**Prerequisite:** Successful completion of Athletic Training  
This course provides the student with information and basic skills used to evaluate athletic injuries and special problems of the body. Care, evaluation and rehabilitation used in alleviating these conditions and injuries will be the main focal point of this class. Students will be required to participate in experiences outside of class with medical professionals as well as explore various sports medicine fields.

**H2223 SPORTS OFFICIATING (FIRST OFFERED IN SUMMER OF 2019)**

**Semester:** ½ Unit  
**Grade Levels:** 11-12  
The purpose of this course is to give students an opportunity to obtain a state, national or international certification in a specific officiating specialty area. By obtaining a certification in officiating, job opportunities will be abundant in this high-demand area of community partnership. The class will look at various sports, rules and regulations as well as how each sport/activity is officiated. In addition, the course will examine officiating philosophy and game management strategies as well as proper mechanics, an understanding of the rules and how to apply them. Students will be given the opportunity to take a certification test in a particular sport, allowing them to begin officiating games.

**H2204 SUMMER PHYSICAL FITNESS (SUMMER ONLY)**

**Semester:** 1/2 Unit  
**Grade Levels:** 9-12  
Summer Physical Fitness is designed for every student to have the opportunity to learn more about and improve their personal level of fitness. Students will learn about body composition, flexibility, muscular endurance, muscular strength, cardiovascular endurance, the importance of proper exercise and how to maintain good physical condition. This course does not meet the P.E. or Health graduation requirement.
H0532 CADET TEACHING
Semester: 1/2 to 1 Unit
Grade Level: 12
Prerequisite: 2.67 GPA, 95% Attendance, NO major disciplinary actions, one semester of tutoring with passing grade.
This course provides an opportunity for students interested in the field of education to obtain practical experience by working with supervising teachers and students at a district's elementary or middle school. Duties include completing written assignments and projects; bulletin boards; grading and duplication of papers; and classroom instruction. Outstanding citizenship, attendance and reliability are a must. Students must provide their own transportation to the field school. A parent or guardian must sign a transportation waiver. Those without a driver's license may walk to some schools. A two-week training session will be given at the beginning of the semester. Grades will be based on attendance, evaluations by the cadet coordinator and supervising teachers, and a variety of written assignments. This course may NOT be taken concurrently with tutoring.

H0892 TUTORING/ MENTORING
Semester: 1/2 Unit
Grade Levels: 11-12
Prerequisite: 2.5 GPA; 95% attendance and no major disciplinary action; Juniors and Seniors must be enrolled in the A+ program and working toward meeting the requirements. This course may be taken one time only. This course will help fulfill the state requirements for 50 hours of tutoring/mentoring by students pursuing A+ status. The class will meet for a two-week training session at the beginning of the semester. Students will be placed with a supervisory teacher at a school in the district. Students must provide their own transportation to the field schools. A parent or guardian must sign a transportation waiver. Those without a driver's license may walk to some field schools. Grades will be based on attendance, evaluations by the tutor coordinator and supervising teachers and a variety of written assignments. This course may NOT be taken concurrently with Cadet Teaching. Students may only enroll in this class for one semester.

H0602 ACADEMIC SEMINAR
Grade Levels: 10-12
Prerequisite: Student must be enrolled in a minimum of two (2) AP, IB, dual-credit or advanced courses in the concurrent semester-eligible courses are listed on page 13 of this guide
No grade-No credit
Academic Seminar offers students in advanced courses the time to work on AP, IB, dual-credit and/or advanced coursework during the school day. This course may be repeated. Students may not take Academic Seminar and Teacher/Office Aide in the same semester. Students do not receive a grade or credit for Academic Seminar.

H0992 TEACHER/ OFFICE AIDE
Grade Levels: 11-12
Prerequisite: 93% Attendance, 2.5 non-weighted GPA, and good citizenship (no more than 10 citizenship points the previous year)
No grade-No credit
Students will help teachers at the high school with typing, filing, small group instruction. Office Aides will run errands for the office to which they are assigned. Students may not take Academic Seminar and Teacher/Office Aide in the same semester.
Students may only enroll in one no-credit aide class per semester and a total of two semesters. Students doing MSHSAA have to be enrolled and pass three credits each semester for sports or other activities.

H0882 LEADERSHIP CLASS
Year: 1 Unit
Grade Levels: 11-12
Prerequisite: Written consent of the Student Council Sponsor is required for enrollment.
This class is designed for Student Council members who have accepted responsibility in various areas of student leadership. It combines leadership activities and presentations with specific short-term and long-term tasks.

H0001 STUDY SKILLS
Semester: 1/2 Unit
Grade Levels: 9-12
Study Skills class is designed to give the academically struggling student time and support with schoolwork. Along the way, students have the opportunity to gain skills they may not have mastered during their early education. Students will complete daily in-class assignments designed to bolster classroom skills. Students in this class also have the opportunity to work on their other schoolwork with the support of a teacher. This is a pass/fail course; any grade below a 70% will be regarded as a failing grade. This course is not included in a student’s g.p.a.

HI 290 IB THEORY OF KNOWLEDGE 1
Semester: 1/2 Unit
Grade Level: 11th (2nd semester)
Prerequisite: Concurrent IB classes required for IB Diploma Candidates

HI 2902 IB THEORY OF KNOWLEDGE 2
Semester: 1/2 Unit
Grade level: 12th (1st semester)
Students will reflect critically on their academic experiences explored through the following areas of knowledge: mathematics, natural sciences, human sciences, history, the arts, and ethics. Students will use different ways of knowing to reflect upon their experiences both inside and outside the classroom and utilize knowledge based questions to evaluate the bases of knowledge and their own thinking. Since TOK is committed to the public dialogue of ideas, class discussion will be an integral part of the course. The IB assessment requires one major essay and a class presentation. This class is a required component of the IB diploma. For this reason, the course enrollment is limited to only diploma candidates.

CLASSES BELOW ONLY WITH CASE MANAGER APPROVAL

H9600 LIFE SKILLS ENGLISH
Year: 1 Unit per year
Grade Levels: 9-12
Recommendation: Enrollment in this class will be determined by student’s case manager.
Life skills English is for students that pre-qualify for MAP-A state assessments. This is a communication arts class where students cover an array of items such as letter sounds, reading sight words, spelling, writing sentences and formulating paragraphs, as well as reading fluency. A computer software reading program is also used to improve student’s word recognition.

H20211 FUNDAMENTALS OF ENGLISH 1
Year: 1 Unit
Grade Level: 9
Recommendation: Enrollment in this class will be determined by student’s case manager.
This course will focus on reading, writing, speaking and listening skills. Students will increase their basic reading and reading comprehension skills through a study of various texts including fiction, non-fiction, and poetry. Freshmen will expand their knowledge of the writing process through academic writing.
H2012 FUNDAMENTALS OF ENGLISH 2
Year: 1 Unit
Grade Level: 10
Recommendation: Enrollment in this class will be determined by student's case manager.
Students will develop and build upon their basic reading and word attack skills through reading various fiction, non-fiction, and poetry text. Juniors will expand their knowledge of the writing process (including capitalization, usage, punctuation, and spelling) through technical and academic writing.

H2013 FUNDAMENTALS OF ENGLISH 3
Year: 1 Unit
Grade Level: 11
Recommendation: Enrollment in this class will be determined by student's case manager.
Students will develop and build on their basic reading and word attack skills through reading various fiction, non-fiction, and poetry text. Juniors will expand their knowledge of the writing process (including capitalization, usage, punctuation, and spelling) through technical and academic writing.

H2014 FUNDAMENTALS OF ENGLISH 4
Year: 1 Unit
Grade Level: 12
Recommendation: Enrollment in this class will be determined by student's case manager.
Students will analyze literature and informational text throughout the year, while still focusing on their basic reading and word attack skills. Seniors will continue to develop their reading fluency and comprehension skills through the course of the year. Seniors will have mini writing lessons within each unit of study, and will receive instructions on the key types of writing: argument essay, informational/explanatory, and narrative writings.

H2020 READING
Year: 1 Unit
Grade Levels: 9-12
Recommendation: Enrollment in this class will be determined by student's case manager.
Students will analyze literature and informational text throughout the year, while still focusing on their basic reading and word attack skills. Seniors will continue to develop their reading fluency and comprehension skills through the course of the year. Seniors will have mini writing lessons within each unit of study, and will receive instructions on the key types of writing: argument essay, informational/explanatory, and narrative writings.

H95810 FUNDAMENTALS OF MATH
Year: 1 Unit
Grade Levels: 9-12
Recommendation: Enrollment in this class will be determined by student's case manager.
Students will develop and build upon their understanding of foundational math skills. The course will be a study of basic math concepts which may include: place value, rounding, order of operations, fractions, decimals, percent, average, exponents, calculating interest, exponents, area and graphing.

H958163 PRE-ALGEBRA
Year: 1 Unit
Grade Levels: 9-12
Recommendation: Enrollment in this class will be determined by student's case manager.
This course is designed to provide instruction on foundational math skills. The course will be a study of basic math concepts which may include: place value, rounding, order of operations, fractions, decimals, percent, average, exponents, calculating interest, exponents, area and graphing.

H95817 ALGEBRA 1 A
Year: 1 Unit
Grade Levels: 9-12
Recommendation: Enrollment in this class will be determined by student's case manager.
This course is for students who are proficient in foundational math skills. Unit of study may include number sentences, perimeter, area, one and two step algebraic equations, graphing of data, probability and polynomials.

H95818 ALGEBRA 1 B
Year: 1 Unit
Grade Levels: 9-12
Recommendation: Enrollment in this class will be determined by student's case manager.
This course is for students who are proficient in foundational math concepts. The course will be a study of half of the algebra concepts taught in an Algebra I course and may include: equations and inequalities, linear functions and systems of linear functions.

H95819 LIFE SKILLS MATH
Year: 1 Unit
Grade Levels: 9-12
Recommendation: Enrollment in this class will be determined by student's case manager.
Life skills math is for students' that prequalify for MAP-A or alternate state assessments. This class covers topics ranging from number recognition, addition, subtraction, rounding, counting money, telling time, making change, multiplication, as well as other relevant math skills.

H9480 LIFE SKILLS HISTORY
Year: 1 Unit
Grade Levels: 9-12
Recommendation: Enrollment in this class will be determined by student's case manager.
Life skills history is for students’ that pre-qualify for MAP-A or alternative state assessments. This class covers an array of topics related to communities, cities, states, continents, and the founding of the United States. A variety of hands on projects and other activities are done in this class to help students understand the topics at their functional level.

H9773 LIFE SKILLS SCIENCE
Year: 1 Unit
Grade Levels: 9-12
Recommendation: Enrollment in this class will be determined by student's case manager.
Life skills science is for students' that pre-qualify for Map-A or alternative state assessments. This class covers a variety of topics such as knowledge of the days of the week, months of the year, holidays, seasons, the water cycle, plant growth, moon phases, cooking, weather, as well as living and non-living things.

H95565 STRATEGIES OF LEARNING
Year: 1 Unit
Grade Levels: 9-10
Recommendation: Enrollment in this class will be determined by student's case manager.
This course is designed to reinforce the regular classroom instruction and maximize the learning process. The class is designed to help students improve learning effectiveness. Organizational strategies, study skills, time management, note taking skills, support for online coursework, and test taking strategies will be explored.

H9556 TRANSITION
Year: 1 Unit
Grade Levels: 11 - 12
Recommendation: Enrollment in this class will be determined by student's case manager.
This course is designed for students to gain the skills needed to be successful in high school, while also addressing post-secondary goals. Students will complete daily in-class assignments designed to move the students toward mastery of life situations, classroom skills, and post-secondary interests. Subjects taught include job applications, job interviews, self-advocacy, college preparation, career exploration, and career planning.
H9792 LIFE SKILLS
Year: 1 Unit
Grade Levels: 9-12
Recommendation: Enrollment in this class will be determined by student's case manager.
Life Skills is a class that works to enhance skills such as personal hygiene, daily skills such as vacuuming, washing dishes, cleaning items, and making deposits for our school store, human body systems and as well as sexual education. Students will also attend a variety of places on community based instruction trips to promote positive and appropriate community behavior.

H9794 FUNCTIONAL PERSONAL LIVING
Year: 1 Unit
Grade Levels: 10 - 12
Recommendation: Enrollment in this class will be determined by student's case manager.
This course is designed to provide instruction in money management skills which includes banking, budgeting, consumer purchases, insurance, doctors and dentists, job applications and interviews, and living independently. Students will be required to complete daily in-class assignments designed to move the students toward mastery of Personal Living concepts.

H9930 LIFE SKILLS JOB SKILLS
Year: 1 Unit
Grade Levels: 9-12
Recommendation: Enrollment in this class will be determined by student's case manager.
Life Skills Job Skills is a class for students that pre-qualify for MAP-A or alternative state assessments to enhance soft skills to prepare them for a work setting environment.

H9931 FUNCTIONAL JOB SKILLS
Year: 1 Unit
Grade Levels: 9-12
Recommendation: Enrollment in this class will be determined by student's case manager.
Functional Job Skills is a class that strives to enhance skills to prepare students for a work setting environment. Students receive training on a variety of skills that will help them search for, apply and interview, and accomplish career goals post-secondary.

H9934 COOPERATIVE CAREER EDUCATION INTERNSHIP
Year: 1 Unit
Grade Levels: 12
Recommendation: Enrollment in this class will be determined by student's case manager.
Career Education uses Cooperative Career Education Internship as a method of instruction for senior level students whereby students receive on-the-job training. This course utilizes supervised employment that allows the student to relate classroom instruction to the workplace.
H90921/H91021 CONSTRUCTION TECHNOLOGY EXTERIOR/INTERIOR
Year: 3 Units
Grade Levels: 11-12
Prerequisite: Application and interview with instructor.
Dual Credit: University of Central Missouri, may be earned for 6 college credit hours
Articulated Credit: North Central Missouri College and Coffeyville Community College
This program will focus on the total construction industry. Students will learn construction safety, plumbing, electricity, HVAC, insulation, drywall/finishing, trim, cabinet installation, and installation of alarm systems and computer/TV cabling systems. General math and tape measure reading necessary. Students meeting requirements will have the opportunity to receive advanced placement with the Association of General Contractors (union) and certification with the Associated Builders and Contractors (union and nonunion). This class is one year of a 2-year program.

H91225 WELDING TECHNOLOGY
Year: 3 Units
Grade Level: 11
Prerequisite: Application and interview with instructor
Dual Credit: Metropolitan Community College; may be earned for 12 credit hours
Articulated Credit: North Central Missouri Community College and State Technical College of Missouri
Students learn basic welding skills and safety measures essential in the field of welding. Course content includes oxyacetylene welding, shielded metal arc welding, gas metal arc welding and brief exposure to gun tungsten arc welding. Also covered is math for welders, blueprint reading, welding symbols and welding safety. Student must have general math skills and be able to read a tape measure. The student must provide their own personal protective equipment.

The agriculture program of instruction for secondary students should involve both depth and breadth and be organized with an entry-level sequence in combination with advanced courses in agriculture. The entry-level sequence will begin with a two-semester course. Because FFA is an integral part of the agriculture program, all students enrolled in an agriculture course will be highly encouraged to become members of and participate in the FFA.

H90321 AGRICULTURAL SCIENCE II—PLANT & ANIMAL TECHNOLOGY
Year: 1 Unit
Grade Level: 11
This course is designed as an introduction to general agriculture and horticulture. Units of instruction will include small animal care, animal breeds, animal reproduction, animal nutrition, agribusiness, Ag processing, food science, plant growth, plant reproduction, crop science, and land use and regulations. Students will also be introduced to the National FFA Organization, Supervised Agriculture Experience programs, leadership development, and over 200 career opportunities.

H90421 AGRICULTURAL SCIENCE II—MECHANIZED AGRICULTURE
Year: 1 Unit
Grade Levels: 11-12
Prerequisite: Agricultural Science I or concurrent enrollment
This course is designed for an introduction to mechanized agricultural technology and the careers associated with this field. Units of instruction will include careers in agricultural mechanics and skill training units in hand and power tools as well as wood and metal work, arc welding, oxyacetylene welding, electricity, project planning, plumbing, and concrete masonry. Course work will also include instruction in leadership development and supervised agriculture experience program development. Students will be required to complete a lab project in each content area.

VETERINARY & EQUINE SCIENCE
Year: 1 Unit
Grade Levels: 11-12
Prerequisite: Agriculture Science I or concurrent enrollment
This course builds on animal science topics introduced in Ag Science I. First semester, students will learn basic animal anatomy, body systems, care, and maintenance for small animals and livestock. Units of instruction will include: anatomy and physiology, genetics, reproduction, nutrition, health, and proper care and maintenance. Career opportunities in animal science and veterinary medicine will also be examined. Second semester, students will look at horse production, care, and management. Instruction on the horse industry, reproduction, nutrition, selection, health, and training will be covered. This course is offered in even years.

AGribusiness Management Economics and Sales
Year: 1 Unit
Grade Levels: 11-12
Prerequisite: Agriculture Science I or concurrent enrollment
This course combines economic principles of business with sales, management, and service skills. Economic principles will include supply/demand, fixed/variable cost, and time value of money, futures/options/stock market, business management and price forecasting. Students will be expected to
complete a farm or small business plan. Sales units will include human relations, personal inventory, careers, sales presentations, customer relations, marketing, purchasing, grading and transporting. This course is offered in even years.

**AG STRUCTURES I - FIRST SEMESTER**

**Semester:** First Semester  
**Grade Levels:** 11-12  
**Prerequisite:** Agriculture Science I or concurrent enrollment

This course continues the course studies of Ag Structures I through construction of major agricultural structures. This course is offered in even years.

**AG STRUCTURES II - SECOND SEMESTER**

**Semester:** Second Semester  
**Grade Levels:** 11-12  
**Prerequisite:** Agriculture Structures I or concurrent enrollment

This class continues the course studies of Ag Structures I through construction of major agricultural structures. This course is offered in even years.

**AG CONSTRUCTION I**

**First Semester**  
**Semester:** First Semester  
**Grade Levels:** 11-12  
**Prerequisite:** Agriculture Structures I or concurrent enrollment

This course utilizes welding in the development of major metal skills in MIG, Arc and Oxyacetylene systems. This course is offered in even years.

**AG CONSTRUCTION II**

**Second Semester**  
**Semester:** Second Semester  
**Grade Levels:** 11-12  
**Prerequisite:** Agriculture Construction I or concurrent enrollment

This course continues the studies of Ag Construction I through construction of major metal and wood projects. This course is offered in even years.

**SUPERVISED AGRICULTURE EXPERIENCE**

**Year:** 1-2 Units  
**Grade Level:** 12  
**Prerequisite:** Concurrent enrollment in an advanced agriculture course

The SAE class is designed to give students an opportunity to receive credit for an agriculture related work experience. Students must be enrolled in an upper level agriculture class and SAE instructor/supervisors must approve enrollment. Students must work 10 hours weekly to receive one credit and 20 hours weekly to receive two credit hours. Students are not required to attend an actual SAE class but written reports must be submitted weekly.

**LANDSCAPE DESIGN & TURF MANAGEMENT**

**Year:** 1 Unit  
**Grade Levels:** 11-12  
**Prerequisite:** Agriculture Science I or teacher approval

Articulated Credit: Metropolitan Community College (AGBS 153: Special Topics in Horticulture) may be earned for 3 credit hours. Students must complete Landscape Design & Turf Management and Greenhouse Operations.

This course includes careers, the basic techniques of landscape design and selection of plant materials. Developing bids and cost estimates, landscape installation, and landscape maintenance are also included. A major landscape project is required for this class. Greenhouse lab participation is required. This course is offered in even years.

**H9162 EMERGENCY MEDICAL TECHNOLOGY-BASIC (EMT)**

**Year:** 3 Units  
**Grade Levels:** 11-12  
**Prerequisite:** Minimum of a 2.5 GPA; 90% attendance record at home school; good reading, writing, and math skills. A Interview with the instructor during the sophomore year is mandatory.

Articulated Credit: Metropolitan Community College credit may be earned for 8 hours. Basic life support and emergency care skills taught. The student receives instruction for the skills necessary to detect signs, symptoms, and procedures of field management for emergency medical situations. Students will also receive training for certification in Hazardous Materials Awareness & Operations and National Incident Management System (NIMS 100, 200 & 700). Clinical observations on local ambulance services occur after class time, students will need to provide their own transportation to these locations. A class uniform will be required. This course is both a physical and knowledge demanding course and students are required to participate in active physical training. Successful completion of all required courses allows the student to be eligible for testing as a Firefighter through the Missouri Division of Fire Safety. The student must be 17 years of age by May 1st during the Firefighter training year to be eligible to take state certification examinations. The Missouri Division of Fire Safety and the IFSAC have established this requirement for all individuals taking these certification exams.

**H9446 ENGLISH 4**

**Grade Levels:** 11-12  
**Credit:** 0.25 per semester  
**Prerequisite:** Enrolled in a 3-Hour Block Class at the Cass Career Center  
**Dual Credit:** Crowder College: may be earned for 3 college credit hours in ENG 203: Technical Report Writing.

This course covers instruction in methods of technical writing, work readiness, job-related vocabulary development, and effective written and oral communications. Students will compose a variety of essays, including expository (informative) and persuasive forms; students will complete formal and informal presentations; and students will complete a course portfolio and senior capstone. Students may earn a maximum of 1.0 credit over a two-year period to fulfill the Language Arts graduation requirement. This course is available to students enrolled in a 3 hour block program at CCC, and these block students are automatically enrolled.
H9445 MATH 4
Grade Levels: 11-12
Credit: 0.25 per semester
Prerequisite: Enrolled in a 3-Hour Block Class at the Cass Career Center
This course presents informational methods of contextual mathematical instruction directly related to the corresponding 3-Hour Block Class. Students will review pre-existing concepts and learn new concepts specific to the chosen trade to prepare students for higher education or enter directly into that trade. Students will complete various assignments including but not limited to team projects, periodic problem solving, lab participation, and job site applications. This course is available to students enrolled in a 3 hour block program at CCC, and these block students are automatically enrolled.

H9160 CRIMINAL JUSTICE / CSI
Year: 3 Units
Grade Levels: 11-12
Dual Credit: State Fair Community College
(CJ 101: Introduction to Criminal Justice and CJ 102: Introduction to Law Enforcement) may be earned for a total of 6 credit hours. This 2 year program is a general introduction to the American criminal justice system with emphasis on law enforcement. Students will investigate US constitutional law and the Missouri criminal code as well as many aspects of law enforcement such as professional ethics, evidence procedure, crime scene and accident investigation, and types of law enforcement equipment used in industry today. There will be a strong connection to industry and students should be prepared for dealing with real world scenarios in a mature and professional manner. A class uniform will be required. This course is both a physical and knowledge demanding course and students will be required to participate in active physical training.

H90122/H90123 AUTOMOTIVE MAINTENANCE AND REPAIR I & II
Year: 3 Units
Grade Levels: 11-12
Prerequisite: Application and interview with instructor
Articulated College Credit: North Central Missouri College
This program includes an introduction to engine performance, engine repair, HVAC, and automotive transmission. In addition, students will be trained and tested in shop and equipment safety. Students will explore career opportunities offered in the Distribution, Transportation, and Logistics career clusters. All students must visit with instructor prior to enrolling in class. The visit will include a short test of math, language and mechanical ability. Students will be eligible to sit for NATEF/ASE student exams (G1 Maintenance & Light Repair-student level) upon successful completion of program. This class is one year of a 2-year program.
SUMMIT TECHNOLOGY ACADEMY

SUMMIT TECHNOLOGY ACADEMY
CAMPUS, 777 NW Blue Parkway, LSMO
(sta. lsr7.org)

** denotes a Project Lead The Way (PLTW) elective course, which is a nationally recognized engineering, biomedical, and computer science curriculum being offered through numerous school districts. Students can advance through a sequence of courses such as Introduction to Engineering Design, Principles of Engineering in Civil Engineering and Architecture (CEA) in order to access the capstone engineering courses at STA. Likewise, students can advance through Principles of Biomedical Science and Human Body Systems in order to access the capstone course of Medical Interventions/Biomedical Innovation. Ask your Guidance Counselor about information regarding PLTW or go to www.pltw.org. Courses marked with double asterisk (**) are approved Project Lead the Way courses.

? denotes an International Baccalaureate Career-Related Program course, which incorporates the educational principles, vision and learner profile of the IB into a unique offering that specifically addresses the needs of students who wish to engage in career-related education. The IBCP encourages students to benefit from an IB education, through a selection of two or more Diploma Programme courses in addition to a unique IB core, comprised of a Personal and Professional Skills course (see description in the social studies section of the course guide), a reflective project, language development, and community service. The career related courses marked with marked with ?meet the IBCP.

PLTW ENGINEERING ELECTIVE COURSES

Students need to choose 2 of the 3 courses (DE, CIM, AE) to make a full-year selection.

HN90464 DIGITAL ELECTRONICS™ **
Grade Levels: 11-12
Credits: 1.5 Weighted
DUAL CREDIT: UCM ET 1026, ET 1050 (7 hrs credit for eligible students)
PREREQUISITE: GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math: Algebra II, B- or higher; Reading/Writing: 10th grade level
PREREQUISITE for PLTW Member Schools: Introduction to Engineering Design, Principles of Engineering

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

HN94422 ENGINEERING DESIGN AND DEVELOPMENT™ **
Grade Levels: 11-12
Credits: 3 units, 1.5 Fall Semester, 1.5 Spring Semester
Weighted
PREREQUISITE: GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math: Algebra II B or higher.
PREREQUISITE for PLTW Member Schools: Introduction to Engineering Design (IED), Principles of Engineering (POE), and one of the following courses: Digital Electronics (DE), Computer Integrated Manufacturing (CIM), Aerospace Engineering or Civil Engineering/Architecture (CEA).
Recommended: Average Math and Engineering grade: B- or higher; Pre-calculus (completed or concurrent enrollment) OR Physics with a B or higher.

Fall semester (EDD) Student design teams work on an open-ended problem in which they research, design, and construct a solution. Students apply principles developed in the four preceding courses, learn advanced physics and mathematical applications, and are guided by engineering mentors. Design teams must present progress reports, submit a final written report, and defend their solutions to a panel of Kansas City area engineering professionals at the end of the fall semester.

Spring Semester (EFE) Prerequisite: B- or better in EDD, and a B- or better in the mathematical activities as presented by the instructor throughout EDD. The Engineering Field Experience (EFE) course requires that students (AM section only) travel two days per week to Lee’s Summit City Hall and the Public Works Engineering Department. The engineering staff at HDR travel to STA two days per week. LSPW department assigns a city infrastructure project to the AM students. HDR provides instruction on the essentials of wastewater treatment plant design. Students will learn the fundamental concepts of structures, and fluid mechanics, which will be applied directly to the projects for LSPW and HDR.
HN90261/HN90262
NETWORK ENGINEERING I & II
Grade Levels: 11-12
Credits: 3 units, 1.5 Fall Semester
1.5 Spring Semester
Weighted Dual Credit: UCM Net 1060, 1061 2060, & 2061 (3 hrs credit each course for eligible students)
PREREQUISITE: GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math: Algebra I, B- or higher; Reading/Writing: 10th grade level; Other requirement: Keyboarding, minimum 30 WPM. High speed home internet access is required and a fully functional laptop or desktop system (i.e., not a Chromebook).
Recommended: Computer Hardware and Operating Systems I (offered in a traditional format or through R7 Online); Algebra II
Fall semester: The course introduces the architecture, structure, functions, components and models of the Internet and other computer networks. It uses the OSI and TCP/IP layered models to examine the roles of protocols and services. This includes the principles and structure of IP addressing, LAN and WAN specifications, and network management, which provide a foundation for the course. Hands-on and simulation based activities in this course assist with the configuration, operation, and troubleshooting of routers and switches in a small to medium sized internetwork. This course encompasses two additional college classes (6 college credits), in order to prepare the student for the Cisco Certified Entry Network Technician certification exam.
Spring semester: This course provides a comprehensive, theoretical, and practical approach to learning the technologies and protocols needed to design, implement, and secure enterprise and wide area networks. This includes functionality, configuration, and troubleshooting of inter-VLAN routing, VLANs, VLANs as well as wide area networking technologies. This course encompasses two additional college classes (6 college credits), in order to prepare the student for the Cisco Certified Entry Network Technician certification exam.

HN94401/HN94444
SOFTWARE DEVELOPMENT I & II
Grade Levels: 11-12
Credits: 3 units, 1.5 Fall Semester
1.5 Spring Semester
Weighted Dual Credit: MCC CSIS 123, 222, 223 (available to eligible students)
MCC requires Accuplacer placement into Math 31 or higher or an equivalent ACT score.
PREREQUISITE: GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math: Algebra II, B- or higher or previous programming knowledge; Reading/Writing: 10th grade level or higher; home internet access is required; keyboarding, min. of 30 wpm
RECOMMENDED: One of the following courses: PLTW Computer Science & Software Engineering OR PLTW Computer Science Principles OR CHAOS I OR Database Management I (offered through R7 Online)
Fall semester: Students will learn structured programming techniques, proper program design, and object-oriented programming concepts and skills using the C++ programming language. Topics include basic object-oriented programming, events, logic structures and simple input/output techniques.
Spring semester: Using the Java programming language, the students will focus on structured programming techniques, proper program design and object-oriented programming concepts and skills. The capstone project will provide students a unique opportunity to practice agile-based software development from application design to delivery - skills that are in high-demand in today’s job market.

HN9364/HN9368
MEDICAL INTERVENTIONS/BIO/MEDICAL INNOVATION
PLTW **
Grade Levels: 11-12
Credits: 3 units, 1.5 Fall Semester
1.5 Spring Semester
Weighted College Credit: Missouri S&T Bio Sci 1933 & 1934 (3 hrs credit each course for students completing the course with a B- or higher and receiving a 6 or higher score on the EOC) Scholarships and college credit are available at selected Universities across the U.S.
PREREQUISITE: GPA: 2.5 cumulative or higher; Attendance: 90% or higher; home internet access is required.
COURSE PREREQUISITE: PLTW Principles of Biomedical Science and PLTW Human Body Systems preferred OR two of the following science courses: biology, chemistry, anatomy and physiology, or other related sciences with a B- or higher.
 Learner Profile: Independent learner, able to apply knowledge to new situations and concepts; strong desire to pursue a career in medicine; ability to read and synthesize college-level materials

HN92380
PRE-ALLIED HEALTH ACADEMY
Grade Level: 11-12
Credits: 3 units, 1.5 Fall Semester
1.5 Spring Semester
Weighted Dual Credit: MCC BIOL 150 Medical Terminology & ALHT 100 Introduction to Health Care Careers (2 hrs. credit each course)
MCC requires Accuplacer placement or an equivalent ACT score.
PREREQUISITE: GPA: 2.5 cumulative or higher; Attendance: 90% or higher; home internet access is required.
Other requirements: Algebra I, Biology or Chemistry, with a C or higher
Recommended: Anatomy/Physiology; Psychology
This program is for juniors and seniors interested in learning more about Allied Health careers or who would like to enter college healthcare programs after graduation. Students will be engaged in hands-on skills lab work and projects related to Dental Assisting; Health Information Technology; Occupational Therapy/Occupational Therapy Assistant; Paramedic/EMT; Physical Therapy/Physical Therapy Assistant; Radiologic Technology and Respiratory Care, Surgical Technology, Polysomnography, Chiropractic, Athletic Training, Laboratory, Pharmacy, and other allied health careers. This program allows internship and shadowing opportunities in allied health career fields. In addition, students have opportunities to gain industry credentials such as Basic Life Saver CPR training and HIPAA credentials. Students will have to provide transportation in order to accommodate outside lab experiences and internships.

HEALTH SCIENCES

HN9414
CYBER SECURITY
Grade Level: 12
Credits: 1.5 units Weighted Dual Credit: MCC CSIS 272 (CSIS 110 is a prerequisite for this course)
PREREQUISITE: Network Engineering I/II
This course teaches students the skills needed to obtain entry-level security specialist jobs. It provides a hands-on introduction to network security. Student in the course will examine, design and implement security rules and policies that govern corporate networks. This course helps the student prepare for the CompTIA Security+ and the CCNA Security certification exams.

COMPUTER SCIENCE

PLTW ENGINEERING
CAPSTONE COURSE
Biomedical Innovation™ In this capstone course students design and conduct experiments related to the diagnosis, treatment, and prevention of disease or illness. They apply their prior knowledge and skills to solve problems related to Bio-Medical science. Students may work with a mentor or advisor from a university, hospital, or physician’s office, as they complete an Independent Research Project of their own choosing. Students present their Independent Research Project at GKSEF and Union Station. Scholarships are awarded to top winners. Other course topics include: problems in emergency medicine, forensic autopsies, human anatomy and physiology, molecular biology, epidemiology, and water quality. Students completing all four PLTW Biomedical courses receive a white coat at an end of the year ceremony.

HN92353 PRE-PROFESSIONAL NURSING
Grade Level: 12
Credits: 3 units, 1.5 Fall Semester, 1.5 Spring Semester Weighted
Dual Credit: MCC BIO 150 (2 credit hours for eligible students); UCM NUR 1700/2710 and NUR 2000 (4 hrs credit for eligible students)
PREREQUISITE: GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math: Algebra I, C or higher; Reading/Writing: 10th grade level; Biology and Chemistry, C or higher
REQUIREMENTS for Clinical Placement: Upon approval in the program, a negative drug screen and TB skin test results (at student expense), background check and proof of immunizations
Recommended: Anatomy/Physiology (completed or concurrent enrollment); Chemistry II; Algebra II; College Prep English

This course is designed to prepare senior students, who have identified nursing as a clear career goal, for a collegiate registered nursing program. Students will learn through classroom instruction and practice in a clinical skills lab. Major units of study include nursing history and career exploration, pharmaceutical math, CPR/First Aid, nursing skills, and medical terminology. The course will introduce students to the nursing process, nursing documentation, effective communication skills, medical ethics and NCLLEX-RN style assessment questions. Students will learn and use APA style in the production of a research paper. Dual college credit options are subject to change based on instructor qualifications and college requirements. Student must provide their own transportation for clinical experiences.

HN94433 DIGITAL MEDIA TECHNOLOGY
Grade Levels: 11-12
Credits: 3 units, 1.5 Fall Semester, 1.5 Spring Semester Weighted
Dual Credit: UCM COMM 1275 Intro to Media Tech and COMM 1519 Media Aesthetics (4 credit hours for eligible students)
PREREQUISITE: GPA: 2.5 cumulative or higher; Attendance: 90% or higher; Math: Algebra I, C or higher; Reading/Writing: 10th grade level; one credit in Fine Arts
Recommended: Computer Applications or Programming; proficiency in keyboarding.

The Digital Media Technology program at Summit Technology Academy gives students an opportunity to explore and prepare for careers in arts, audio/video technology, and communications. Students will focus on the complete video and audio production workflow from preproduction through post production. They will work in teams to integrate music, graphics and video technologies in entrepreneurial projects for their schools and/or communities. Students have the opportunity to prepare for an industry-recognized certification in Apple Final Cut Pro.

HN92373 TEACHER EDUCATOR ACADEMY
Grade Level: 12
Credits: 3 units, Weighted
Dual Credit: UCM EDFL 2100 Introduction to the Teaching Profession & EDFLFX 2150 Introduction to Field Experience (4 hrs credit for eligible students)
PREREQUISITE: GPA: 2.5 cumulative or higher; Attendance: 95% or better; Math: Algebra I, C or better; Reading/Writing: 10th grade level; one full credit of child development: preschool and parenting, child and adolescent psychology, psychology, or sociology; home internet access is required.

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

HN93634 INTERNATIONAL STUDIES ACADEMY
Grade Levels: 11-12
Credits: 3 Units, 1.5 Fall Semester and 1.5 Spring Semester Weighted
Dual Credit: UCM POLS 2535 Model Nations (3 hrs. credit for eligible students)
PREREQUISITE: GPA: minimum 2.5 GPA cumulative or higher; Attendance: 90% or higher; Completed or enrolled in at least level two Modern Language Course; home internet access is required.

Upon successful completion of the Summit International Studies Academy (SISA), the requirements will be met for Modern Global Issues. If a student drops out of SISA, they must take Modern Global Issues. This course is designed for students who are passionate about world cultures, languages, and diversity. Through service projects and possible internships, students will meet and work with refugees and recent immigrants, applying content knowledge to actual, meaningful situations. A Rotary Interact club is embedded into the class which requires students to complete additional service projects on an international scale. Students will also participate in Model UN by writing position papers and studying the political/social/economic environments of individual countries. They should also be comfortable using technology, presenting in front of groups, and understand the expectations of professionalism. Students will work in teams to prepare cultural presentations for real business clients and learn about being a professional. Students in this program will be working for a student-run cultural consulting firm, Global Prep Squad, where they will be providing cultural services to real business customers and clients. Student grades are determined through a unique system where students receive a simulated salary and bonuses. Students in this program are expected to think for themselves and be able to manage projects on their own. Student will need to make arrangements for transportation to off-site presentations, optional internships, and rides home from STA on predetermined dates.

Please speak with administration if you have any transportation concerns.
HN9451/HN94512 HOSPITALITY TOURISM MANAGEMENT PROGRAM I & II
Grade Levels: 11-12
Credits: 3 units, 1.5 Fall Semester, 1.5 Spring Semester
Weighted Dual Credit: Missouri State University (MSU) HRA 210 & HRA 215 (3 hrs credit each course for eligible students)
PREREQUISITE GPA: 2.5 cumulative or better; Attendance: 90% or better; Math: Algebra I, B- or better; Reading/Writing: 10th grade level
Recommended: Introduction to Human Services (offered traditional or online), Introduction to Hospitality (START), Foods 1/Culinary Foundations
Fall Semester: HTMP 1 introduces the hospitality and tourism industry on a global scale with a large focus on diversity. The program provides students with broad-based learning on the tasks, knowledge, and skills required by anyone wishing to build a career within the hospitality and tourism industry. The course incorporates the best of modern technology with a selection of online coursework, simulations and hands on learning. This course is based on project based learning, where students will be presented with problems from hospitality professionals in the community, come up with a solution, present it to the industry professional and possible assist in the solution. Students are also able to network with individuals in their field. This course provides the instruction for students to earn certification as a Certified Guest Service Professional (CGSP®). The course also helps the student prepare for the Certified Hospitality & Tourism Management Professional (CHTMP) certification. Students will also serve as ambassadors and tour guides for groups coming in to see the programs at STA. This allows them hands on experience in hospitality. Students will be required to attend a few after school events as ambassadors.
Spring Semester: HTMP 2 prepares students for entry level jobs in the hospitality and tourism industry. The content focuses on the leadership and managerial aspects, responsibilities, knowledge, and skills required by an entry-level leader in the hospitality and tourism industry. Students are required to complete 100 hours of paid or unpaid work experience in one or more of the following qualifying positions: Accommodations, Food & Beverage, Transportation, or Attractions. Once the workplace experience is met, students are eligible for a professional certification from the American Hospitality Lodging Educational Institute. This designation is recognized internationally, and is called the Certified Hospitality & Tourism Management Professional (CHTMP).

HN9452 BUSINESS FINANCE AND FINTECH
Grade Levels: 11-12
Credits: 3 units, 1.5 Fall Semester, 1.5 Spring Semester
Weighted Dual Credit: UMKC-ECON 201 Introduction to Macroeconomics (3 hrs for eligible students), UCMO-FIN 1820 Personal Finance (3 hrs), ECON 1010 Principles of Macroeconomics (3 hrs), BADM 1500 Foundations of Business (1 hr), BADM 1505 Job Shadowing (2 hrs) and MKT 1404 Professional Speaking and Presentation (3 hrs)
Learner Profile: Independent learner; able to apply knowledge to new situations and concepts; strong desire to pursue a career in finance; ability to read and synthesize college-level material
Recommended: Accounting, Introduction to Business
This dynamic program is for students interested in learning advanced concepts in finance and financial technology (FinTech) careers and would like to enter college finance programs after graduation with a competitive advantage. Students will be immersed in problem-based and project-based instruction that mirrors the current financial industry related to the following areas: Risk Management, Data Analysis (BIG DATA), Financial Technology (FinTech), Financial Modeling, Understanding Balance Sheets and P&L Statements, Economics, Communication Skills, Corporate Finance, Commercial Banking, Investment Management and Financial Advisory Insurance. This program allows internship and shadowing opportunities in financial career fields. Students will utilize the best of modern technology with a selection of online coursework, simulations and hands on learning.

HN94418 INTERNSHIP IN STEM CAREERS
Grade Levels: 12
Credits: 3 units, 1.5 Fall Semester, 1.5 Spring Semester
PREREQUISITE: unweighted GPA of 3.0 or higher; 95% attendance or higher
REQUIREMENTS FOR PLACEMENT: Gained technical experience through sending high school programs OR completed an STA program as a junior.
Students interested in an internship such as Cerner Scholars should apply for Internship in the STEM Careers program. Selection of Cerner Scholars is ultimately up to Cerner.
This course/internship offers students a chance to earn high school credit for a unique, problem-based learning experience in a highly competitive work environment in the areas of science, technology, engineering and math (STEM). Students will secure an internship in an area that matches their chosen area of focus. Interns will work collaboratively to solve a variety of relevant problems, as well as participate in real-work and job exploration activities. At the completion of the program, interns will demonstrate their communication and collaborative skills through a senior exposition. Student must provide their own transportation.
HN9470 TECHNOLOGY SOLUTIONS
Year: 3 units
Grade Levels: 11-12 Weighted
Prerequisite: None
Location: Raytown Schools Education and Conference Center
Recommendations: Students need to be on track for graduation and have a desire to be in an environment that encourages teamwork in a project-based real world environment.
This course is designed for students who have an interest in the Information Technology field. This course will allow students an opportunity to discover and explore a variety of career options in the technology space as well as provide students the ability to develop professional skills employers are looking for today. Students will have the opportunity to learn from professionals about computer networking, CIS and software development, website and app creation, and more. This course is not teacher and curriculum driven. It is a hands-on, project based exploratory opportunity for students. Students should be prepared to work with professionals on real-world company based projects. Students will need to provide their own transportation. Students have the opportunity to earn college credit by dual enrollment through Northwest Missouri State University. Tuition cost is determined by the University.

HN9472 EDUCATION EXPLORATION
Year: 3 units
Grade Levels: 11-12 Weighted
Prerequisite: None
Recommendations: Students need to be on track for graduation and have a desire to be in an environment that encourages teamwork in a project-based real world environment.
This course is designed for students who have an interest in learning about future careers in education. Students will have the opportunity to explore the various levels of education including Early Childhood, Elementary, Middle School and High School. Students will observe all levels of PK-12 grade instruction, collaborate with educators, and explore post-secondary opportunities for teacher education and educator employment. Location of program is to be determined.

HN9473 ENVIRONMENTAL PLANNING AND AWARENESS
Year: 3 units
Grade Levels: 11-12 Weighted
Prerequisite: None
Recommendations: Students need to be on track for graduation and have a desire to be in an environment that encourages teamwork in a project-based real world environment.
This course is designed for students who have an interest in learning about Environmental Planning and Awareness. Students will have the opportunity to learn from professionals about how we can produce enough food to feed the increasing world population while sustaining the planet, how food is processed to produce products people want to eat, and how food and products are distributed. Students will also learn about land management and planning with economic, cultural, and geographical considerations. This course is not teacher and curriculum driven. It is a hands-on, project-based exploratory opportunity for students. Students should be prepared to work with professionals on real-world company based projects. Location of program is to be determined. Students will need to provide their own transportation.

Southland CAPS courses are offered daily, year-long, AM/PM session blocks at various sites throughout the Kansas City metro area. Each CAPS course may have specific requirements based on the industry partners. For more information, go to http://www.raytownschools.org and select Herndon Career Center/Southland CAPS.
RayPec Early College Program
In partnership with Metropolitan Community College

Beginning in the 2018-2019 school year (pending final approval from MCC), the class of 2020 and beyond will have the opportunity to simultaneously earn a high school diploma from RPHS and an Associates of Arts (AA) degree from the Metropolitan Community College system through our Early College Program. Students will achieve this through enrollment in dual credit and dual enrollment courses. Many of these courses will be offered at RPHS by our dual credit instructors. Some courses must be taken over the summer between a student’s junior and senior year. Finally, some additional courses will be taken online. A total of 60 credits hours are needed to earn an AA degree. Hours must be in particular areas such as: Communication, mathematics, science, American institutions, social sciences, Western civilizations, humanities, humanities appreciation, core electives, global diversity, computer science and general electives.

By earning an associate’s degree while in high school, students will find themselves up to two years ahead of their peers when entering their post-secondary school of choice. *It is important to note that it is the responsibility of the student to determine if their college of choice will accept all of the transfer credit from MCC.*

In order to enroll in any dual credit course, students must meet MCC’s prerequisites of:
- A 2.5 (or greater) GPA and written parent permission
- Recommendation of the principal or counselor
- A certain ACT score (exact score needed depends upon the course in which the student is enrolling) or a proficient score on the ACCUPLACER

**Raymore Peculiar Dual Credit Offerings**

Dual credit courses enable high school students to receive, simultaneously, both high school and college-level course credit. Students take the course at RPHS during the regular school day. The majority of dual credit courses are taught by high school faculty with supervision of on-campus college faculty. These courses provide high-performing students an affordable opportunity to experience high-quality college-level coursework. Many of the dual credit courses will need to be taken in order to earn an AA degree.

- English 101—Composition and Reading I
- English 102—Composition and Reading II
- English 218—Introduction to Literature
- Communications 100—Fundamentals of Speech
- Spanish 101—Elementary Spanish I
- Spanish 102—Elementary Spanish II
- French 101—Elementary French I
- French 102—Elementary French II
- Math 115—Statistics
- Math 120—College Algebra
- Math 130—Trigonometry
- Math 180—Calculus
- History 120—U.S. History to 1865
- History 121—U.S. History from 1865
- History 133—Foundations of Western Civilization
- History 134—Modern Western Civilization
Dual Enrollment Online Offerings

Dual enrollment courses enable high school students to receive, simultaneously, both high school and college-level course credit. Students take the courses online at RPHS during the regular school day in an academic seminar setting. Dual enrollment courses are taught by full-time college faculty members. These courses provide high-performing students an affordable opportunity to experience high-quality college-level coursework. In order for a student to earn an AA degree, students must enroll in approximately 20 credit hours of dual enrollment. Specific requirements can be acquired from your school counselor.

Social Science (one of the following)
- Psychology 140—General Psychology
- Sociology 160—Sociology

Science
- Biology 132—Human Nutrition
- Physics 101—Introduction to Physics
- Physics 106—General Astronomy

Global Diversity
- Art 108—Survey of Art
- Geography 105—World Geography
- History 140—African American History
- Music 116—Evolution of Jazz
- English 260—African American Literature
- English 268—Women’s Literature
- Communications 233—Interpersonal Skills

Humanities
- English 222—American Literature to 1860
- English 223—American Literature 1860-Present
- English 268—Women’s Literature

Humanities Appreciation
- Art 108—Survey of Art
- Music 108—Music Appreciation
- Theatre 106—Theatre Appreciation

Computer Science
- Computer Science 115—Computer Science and Applications

College 100* (not dual enrollment but required for the AA degree)
SAMPLE SCHEDULE

**Junior Year**
- RPHS English
- American Government
- Comm 100 (Comm)
- Math 120 (Math)
- West. Civ 133 (West. Civ.)
- Spanish 101/French 101 (Human Apprec.)
- English 218 (Humanities)
- Online non lab science (Science)
- *2-3 additional classes (see below)

**Senior Year**
- English 101 (Comm)
- English 102 (Comm)
- Am. History 120 (Am. Inst.)
- Online Soc. Sci. (Soc. Sci.)
- Online Global (Global Div.)
- Online Computer (Comp. Sci.)
- *4-8 additional classes (see below)

**Summer Between Jr./Sr. Year**
- Science with lab (Science, may be online)
- College 100 (online)

**Junior or Senior Year as Schedule Allows**

Core Electives (need 8 hours; hours are noted in parenthesis)
- West. Civ. 134 (3)
- Calculus 180 (5)
- Spanish 102 (5)
- French 102 (5)
- Am. Hist. 121 (3)
- Stat 115 (3-T)
- Trig 130 (3)

Electives (need 11 hours; hours are noted in parenthesis)**
- West. Civ. 134 (3)
- Am. Hist. 121 (3)
- Trig or Stat (3)
- Calculus 180 (5)
- Spanish 102 (5)
- French 102 (5)
- Am. Hist. 121 (3)
- Stat 115 (3-T)
- Trig 130 (3)

For electives hours, students may also choose dual enrollment online courses that they did not take to satisfy other requirements in science, social science, global diversity or computer science. For example, if a student enrolled in online Psychology 140 to satisfy the social science requirement, he/she cannot take that course to satisfy the elective hours requirement as well.

**Transfer dual credit business courses (BSAD 100 or BSAD 151) can also be used for 3-6 elective credit hours as well.**