The mission of Butler High School is Every Child, Every Day, Whatever It Takes
Dear Parents and Students:

Butler High School offers a wide range of subjects and opportunities for students to satisfy their interests, abilities and needs. In order to make wise choices that lead to well-balanced programs, students should decide early in their high school years whether they are preparing for advanced study after graduation, a career in the business field or developing the necessary skills for employment. We encourage parents and students to develop a Personal Plan of Study to guide them toward their post-secondary and career goals. It is important to select courses very carefully to fulfill that plan. The career pathway information offers a range of possible careers for each student to consider. Parents can use the career pathway information to discuss career opportunities with their children.

Student course selection is very 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. The teachers, counselor and administrators are available to assist students and parents as they make course decisions. Please do not hesitate to ask for this assistance.

Sincerely,

Marci Beckley

Administration
Marci Beckley
Principal
Nancy Sutton
Assistant Principal
Kirk Hannah
Activities/Athletic Director

Counseling Center
Andrea Laughlin
High School Counselor
Carol Hedrick
Jr High Counselor
Secretary/Registrar

A+ Program Office
Marci Beckley
A+ Coordinator
Tammy Appleberry
A+ Secretary

Butler R-5 Schools 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 hereunder, it is the policy of the Cass R-9 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 P.L. 93-112 and Section 504 may be directed in writing or by telephone to: Tara Ward, Special Services Coordinator.
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Preparing All Students for College and Career Readiness
BHS Assessments

**PSAT Test (10th and/or 11th Grade)**
The PSAT is an optional test for sophomores and juniors. Sophomores can use the test score to qualify for Missouri Scholars Academy. The PSAT is the only qualifying test for juniors competing for National Merit Scholarship Program. We encourage the top 15-20% of the sophomore class to take the test in preparation for the National Merit Scholarship. The PSAT measures critical thinking skills, including critical reading, math problem-solving and writing skills. The individualized score report includes personalized feedback on skills that need attention, along with suggestions for improvement. Students also have free access to a personalized planning kit based on their test results to help improve skills and research colleges.

In addition, the PSAT includes an AP Potential Report which identifies students who can be successful in AP courses based on test scores. Teachers can also use the Summary of Answers and Skills to improve instruction if a significant number of students do not perform well in an area.

**ASVAB Test (11th Grade)**
The ASVAB is not just a test for those students planning on joining the military. For college-bound students, the ASVAB may help them decide on a college major/minor. The ASVAB is an aptitude test and has a wonderful career exploration component. Since aptitudes are fairly stable throughout life, identifying those abilities and building upon them is a natural career choice. All junior students are encouraged to take the ASVAB as a career exploration tool.

**ACT Test – (11th Grade) [www.actstudent.org](http://www.actstudent.org)**
The ACT is a national college admissions examination that consists of subject area assessments in: English, math, reading, and science. All juniors will take a practice ACT test in January. They will also take the actual ACT exam in April as required by DESE. To ensure that students master the knowledge and skills to succeed after high school, ACT recommends that students take a core curriculum consisting of at least:
- Four years of English;
- Three years of mathematics, including rigorous courses in Algebra I, Geometry, and Algebra II
- Three years of science, including rigorous courses in Biology, Chemistry, and Physics
- Three years of social studies

<table>
<thead>
<tr>
<th>ACT Test Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 13, 2019</td>
</tr>
<tr>
<td>September 14, 2019</td>
</tr>
<tr>
<td>October 26, 2019</td>
</tr>
<tr>
<td>December 14, 2019</td>
</tr>
<tr>
<td>February 8, 2020</td>
</tr>
<tr>
<td>April 4, 2020</td>
</tr>
<tr>
<td>June 13, 2020</td>
</tr>
<tr>
<td>July 18, 2020</td>
</tr>
</tbody>
</table>

**College Athletics Information**

NCAA Divisions I,II,III  
Link to NCAA Eligibility Center

Link to NCAA Eligibility Handbook

NAIA  
[https://www.playnaia.org/eligibility-center](https://www.playnaia.org/eligibility-center)  
Link to NAIA Eligibility Center
## BUTLER HIGH SCHOOL
### GRADUATION REQUIREMENTS

<table>
<thead>
<tr>
<th>CURRICULAR AREAS</th>
<th>GRADUATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LANGUAGE ARTS</strong></td>
<td>4 units (English I, English II &amp; English III or AP Literature)</td>
</tr>
<tr>
<td><strong>SOCIAL STUDIES</strong></td>
<td>3 units (American History, World History &amp; American Government)</td>
</tr>
<tr>
<td><strong>MATHEMATICS</strong></td>
<td>3 units (Algebra I &amp; Geometry)</td>
</tr>
<tr>
<td><strong>SCIENCE</strong></td>
<td>3 units (Biology)</td>
</tr>
<tr>
<td><strong>FINE ARTS</strong></td>
<td>1 unit</td>
</tr>
<tr>
<td><strong>PRACTICAL ARTS</strong></td>
<td>.5 unit</td>
</tr>
<tr>
<td><strong>PHYSICAL EDUCATION</strong></td>
<td>1 unit</td>
</tr>
<tr>
<td><strong>HEALTH</strong></td>
<td>.5 unit</td>
</tr>
<tr>
<td><strong>PERSONAL FINANCE</strong></td>
<td>.5 unit</td>
</tr>
<tr>
<td><strong>ELECTIVES</strong></td>
<td>7.5 units</td>
</tr>
<tr>
<td><strong>Additional Requirements</strong></td>
<td>Missouri &amp; US Constitution Test, Civics Test &amp; CPR Training</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td>24 units (All Seniors must take &amp; pass 2 core classes)</td>
</tr>
</tbody>
</table>
## POST-HIGH SCHOOL EDUCATION ADMISSION REQUIREMENTS

<table>
<thead>
<tr>
<th>CURRICULAR AREAS</th>
<th>UNIVERSITY OF MISSOURI SYSTEM</th>
<th>MISSOURI PUBLIC 4 YEAR COLLEGES (UCM, MSU)</th>
<th>COMMUNITY &amp; TECHNICAL COLLEGES</th>
<th>UNITED STATES MILITARY CAREERS</th>
<th>APPRENTICESHIPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>LANGUAGE ARTS</td>
<td>4 units</td>
<td>4 units</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOCIAL STUDIES</td>
<td>3 units (.5 Am Government)</td>
<td>3 units (.5 Am Government)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATHEMATICS</td>
<td>4 units (Algebra 1 &amp; above)</td>
<td>3 units (Algebra 1 &amp; above)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCIENCE</td>
<td>3 units (No General Science, 1 must be a Lab Class)</td>
<td>3 units (No General Science, 1 must be a Lab Class)</td>
<td>HIGH SCHOOL Diploma, G.E.D., Or A Certificate Of Completion Of Home School Program</td>
<td>HIGH SCHOOL Diploma Or A Certificate Of Completion Of Home School Program</td>
<td>MOST REQUIRE High School Diploma Or A G.E.D. And Must Be At Least 18 Years Of Age</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>
<td></td>
<td></td>
<td></td>
</tr>
<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 same Foreign Language)</td>
<td>3 units (selected from Foreign Language and/or core courses)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OTHER INFORMATION</td>
<td>Plus appropriate class rank &amp; minimum ACT score of 24</td>
<td>Plus appropriate class rank &amp; ACT score</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All students who plan to attend postsecondary education (community colleges, technical schools or four-year colleges and universities) should become familiar with the academic requirements for acceptance in those institutions of interest. In addition, students who expect to attend four-year colleges or universities should consider following the course of studies necessary to earn the State Board of Education College Preparatory Studies Certificate and also meet the Coordinating Board for Higher Education (CBHE) High School Core Curriculum Requirement for college admission.
ADMISSIONS OFFICES FOR MISSOURI PUBLIC FOUR-YEAR INSTITUTIONS

University of Central Missouri
Ward Edwards 1400
Warrensburg, MO 64093
877-729-8266
www.ucmo.edu

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

Truman State University
100 E. Normal
Kirksville, MO 63501
660-785-4114
www.truman.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 E. 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-St. Louis
351 Millennium Student Center
St. Louis, MO 63121
800-462-8675
www.umsl.edu

University of Missouri – Science & Technology
1870 Miner Circle
Rolla, MO 65401
800-522-0938
www.mst.edu

CROWDER COMMUNITY COLLEGES
www.crowder.edu

Neosho
601 Laclede Avenue
Neosho, MO 64850
1.866.238.7788

Nebraska
600 W Edwards Pl
Nevada, MO 64772
417.667.0518

McDonald County
194 College Road
Jane, MO 65625
417.226.6000

Webb City
600 S Ellis
Webb City, MO 64870
417.673.2345

LOCAL COMMUNITY COLLEGES/TECHNICAL SCHOOLS ACCEPTING A+ SCHOLARSHIPS

Metropolitan Community Colleges (Blue River, Longview, Maple Woods, Penn Valley, Business & Technology)
Missouri Western State College (2-year programs), St. Joseph
State Fair Community College, Sedalia
Linn State Technical College, Linn
Ozark Technical Community College, Springfield
Nevada Regional Technical School, Nevada
Cass Career Center, Harrisonville
Warrensburg Vocational Technical School, Warrensburg

A complete list of eligible A+ community colleges and vocational/technical schools can be found at:
http://www.dhe.mo.gov/ppc/grants/aplusscholarship.php

Many state 4-year colleges/universities offer scholarships to students who qualify for A+ incentives. All 4-year colleges/universities that offer A+ Scholarships are not part of the A+ appropriation from the state legislature and many college/university A+ scholarships impose additional requirements. Students should check with the college/university of their choice to see what benefits are offered to A+ students.
LOCAL UNION & LABOR DEPARTMENT CONTACTS

Department of Agriculture
816-926-6502
www.usda.gov

American Nurses Association
800-274-4262
www.nursingworld.org

Auto Workers Local 31
913-342-7330
www.uaw.org

BCTGM Union-Bakery, Confectionary, Tobacco Workers & Grain Millers
816-474-9722
www.bctgm.org

International Brotherhood Boilermakers
816-523-8300
www.boilermakers.org

Bricklayers Local 15
816-241-6695
bcl15.org

Associated Builders & Contractors
913-831-2221
www.abcbkc.org

Building & Construction Trade Depot
816-836-8485
www.bctd.org

Carpenters Union District Council
816-931-3414
www.carpdc.org

Communication Workers of America
816-842-6327
www.cwa-union.org

American Culinary Federation
913-469-8500
www.acfchefs.org

IBEW Electrical Workers Local 1613
816-241-1613
www.ibew1613.org

Fire Fighters Local 42
816-358-4222
www.iaff42.org

Ironworkers Union
816-842-8917
www.ironworkers.org

KC Teamsters
816-924-2000
www.teamsters.com

International Association of Machinist & Aerospace Workers Lodge 176
816-393-7070
http://iamaw176.org/index.htm

International Union of Painters & Allied Trade Local 3
816-358-2440
www.iupat.org

Pipefitters Local 533
816-523-1533
www.local533.com

Roofers Local 20
816-313-9420
www.rooferslocal20.com

Sheet Metal Workers Local 2
816-254-8021
www.sheetmetal2.org

United Transportation Union
816-822-7453
www.utu.org

Brotherhood of Locomotive Engineers & Trainmen
816-734-0238
www.ble-t.org

Missouri Registered Apprenticeship
816-502-9095
www.missouriapprenticeship.com

Missouri Department of Labor
573-751-4091
www.labormo.gov

US Department of Labor
866-487-2365
www.dol.gov

For employment outlook information, please consult the Occupational Outlook Handbook or Missouri Connection websites.

MILITARY RECRUITMENT INFORMATION

Army
United States Army
10300 NW Prairie View Road
Kansas City, MO 64153-1350
www.goarmy.com

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

National Guard
Missouri National Guard
2302 Militia Drive
Jefferson City, MO 65101
www.moguard.com
816-922-5008

Navy
United States Navy
12121 Blue Ridge Ext, Ste B
Grandview, MO 64030
www.navy.com
816-966-0700

Marine
Kansas City Recruiting Station
7000 NW 83rd Terrace
Kansas City, MO 64152
www.marines.mil
816-436-3973
A+ SCHOLARSHIP PROGRAM

The A+ Program Office opens August 1st for students interested in the A+ services. The hours are from 7:30 a.m. to 3:30 p.m. daily. Students are encouraged to contact the A+ office with any questions they might have.

What is the A+ Program?
In an effort to enhance educational opportunities for high school students, the Missouri State Legislature established The Outstanding Schools Act (OSA) of 1993, which included the provisions of the A+ School Program. The Legislature approved the program to help students qualify for post-secondary tuition assistance. The A+ School concept has three goals as named in the OSA. They include that all students will:

1) Graduate from high school;
2) Complete a selection of challenging high school studies with identified learning expectations
3) Proceed to a two- or four-year college, vocational/technical school, or high wage job with work-place skill development opportunities.

Students who graduate from an A+ School and have met the specified requirements will be eligible to receive two-year tuition to any public community college, vocational, or technical school in Missouri, provided that state funding sources are available.

Who can qualify?
To be eligible for the financial incentives of the A+ School Program, a student must be certified as an A+ student by their high school. Students must meet the following criteria set by the A+ Program:

1) Maintain a cumulative 2.5 GPA;
2) Achieve a score of Proficient or Advanced on the Algebra I End of Course (EOC) exam or achieve a Math ACT score of 17
3) Maintain a cumulative 95% attendance rate;
4) Perform 50 hours of Tutoring/Mentoring;
5) Maintain a record of good citizenship; and
6) Apply for federal post-secondary student financial aid funds (FAFSA)
7) Attend an A+ designated school for 3 consecutive years prior to graduation

What are the Student Benefits?
• Paid tuition to attend a public community/technical college or vocational training (pending State funding)
• Opportunity to learn about jobs at the place of business as well as in the classroom
• Earn college credits while still in high school
• Tutoring and mentoring experience
• Develop appreciation for community through volunteer service
• Career pathways to prepare for an occupation, with additional training upon graduation
• Encouragement to attend school regularly and work hard

What if I want to attend a 4-year college?
By signing up, you are saying that you want to strive to accomplish the goals established by the A+ Program. Even after a student completes the requirements for the A+ Program, he/she may choose to enter the military, or go straight to a 4-year college, or even take a year off before taking advantage of the benefits of the A+ Program. The A+ Program will allow a student to attend a 2-year college and earn an associate’s degree, which will transfer to a 4-year college. Many 4-year colleges do offer a similar scholarship for A+ qualified students.

To Enroll: Complete the A+ Statement of Intent. You can pick-up a packet from the High School Office.
CREDIT RECOVERY

What is credit recovery?
Credit recovery is a second-chance opportunity for high school students to make up credit in order to graduate from high school. Participation in the Butler High Credit Recovery Program is a privilege. Pre-arrangement must be made with the high school counselor before enrolling. Class is held in the Counseling Career Center lab utilizing an online, self-paced curriculum.

How long will it take to recover a credit?
Students can complete the equivalent of two semesters of the prescribed course(s) during the credit recovery term (1 full credit). It takes about 20 – 30 hours of credit recovery to complete all the assignments for one course. Although enrollment is open throughout the school year, all course work must be completed within a semester cycle and summer school may be required for any credits that are not recovered during the school year.

Missouri Course Access Program (MOCAP) - www.mocap.mo.gov
MOCAP is the state virtual school for Missouri and is a tuition program offering classes to public, private and home school students. Students take MOCAP classes for many reasons. Missouri students can now access advanced classes or foreign language classes on MOCAP that are not currently offered by their local school district. Some students take MOCAP classes to graduate early or to solve class scheduling problems; other students take advantage of the “foundation classes” offered for credit recovery. A number of Missouri students are not able to attend their traditional schools for medical reasons, or they are involved in special activities or are presently outside of the state. Online education offers students flexibility in a variety of ways. MOCAP classes are self-paced so students can move through the classes at a faster or slower pace if necessary. MOCAP offers various start dates. MOCAP offers 172 different courses including seven different foreign languages and 19 Advanced Placement classes.

Correspondence courses
The Butler R-V School District recognizes units of credit obtained through accredited schools, including credits earned through correspondence courses or courses delivered primarily through electronic media, such as satellite video, cable video or computer-driven or online courses. For the purposes of this policy, an "accredited school" is the Missouri Course Access Program (MOCAP); a private agency where students with disabilities are placed by a public school; or any school accredited by the Missouri Department of Elementary and Secondary Education (DESE) or the North Central Commission on Accreditation and School Improvement (NCA CASI). Except for courses earned through MOCAP, a student may apply a maximum of two (2) credits from correspondence courses to meet graduation requirements.

COLLEGE CREDIT COURSES
The Butler R-V School District does not set the criteria for students to be eligible for dual credit. Dual credit refers to college level courses taught by high school instructors to high school students, who are earning both high school and college credit for these courses simultaneously. Dual credit students must meet or exceed eligibility requirements established by the Missouri Coordinating Board for Higher Education (CBHE). The website for CBHE is http://dhe.mo.gov/policies/documents/CBHEPolicyonDualCreditJune2015.pdf

Eligibility is defined as:
1) Students in the 11th and 12th grades with an overall minimum GPA of 3.0 (on a 4.0 scale) are automatically eligible for dual credit courses.
2) Students in the 11th and 12th grades with an overall GPA between 2.5 – 2.99 (on a 4.0 scale) must provide a signed letter of recommendation from their principal or high school counselor and provide written permission from a parent or legal guardian.

The following courses are available for college credit:

<table>
<thead>
<tr>
<th>UCM - College Spanish 1601/1602</th>
<th>UCM - College Algebra 1111</th>
<th>SFCC - Agribusiness Mngt 131</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro to Engineering Design</td>
<td>Computer Science Principles</td>
<td>UCM - Adv Animal Science 1420</td>
</tr>
<tr>
<td>Engineering Design &amp; Development</td>
<td>Principles of Engineering</td>
<td>SFCC - Greenhouse 129</td>
</tr>
</tbody>
</table>

*AP and college credit courses are calculated as weighted credit with multipliers of 1.25/1.50 in the student’s GPA

The Butler R-V District also offers Dual Enrollment college credit through Crowder College. Dual enrollment refers to college level courses taken on-line for college credit and high school credit. All on-line classes have a pre-requisite of college level English and Reading skills as measured by the ACT or other placement test. Crowder College course fees and textbook fees are assessed through the college.
ARTICULATED CREDIT

Certain classes at Butler High will earn college credit through community colleges. Articulated credit is earned by successfully completing a career, technical, or occupational course with an 80% or higher. Enrollment for articulated credit must be made while the student is enrolled in the high school equivalent course. The college credit will appear on a college transcript once a student graduates high school and earns 15 hours of college credit through the post-secondary institution. There is no cost to the student for articulated credit.

The following courses are available for articulated credit:

| MCC - Accounting II |

*AP and college credit courses are calculated as weighted credit with multipliers of 1.25/1.50 in the student’s GPA.

ADVANCED PLACEMENT PROGRAM

The Advanced Placement Program (AP®) is a cooperative educational endeavor between secondary schools and colleges and universities. It gives high school students exposure to college level material through involvement in an AP course, and then gives them an opportunity to show what they have learned by taking an AP Exam in May. All students enrolled in AP courses are expected to take the AP exam in May in the subject area. The fee for the exam is around $91. Financial assistance is available to qualified students. The national exam scores are on a 5-point scale. Students receiving a score of a 3, 4, or 5 on this exam may be granted credit and/or advanced placement in college.

Butler High School offers several AP courses for sophomores, juniors and seniors. Up-to-date information concerning university recognition policies can be found at www.collegeboard.org/ap. AP courses are a major commitment requiring nightly study and preparation. Students are required to do considerable work in and out of class to demonstrate the skills expected of first year students in a strong college program.

The following courses are AP courses:

<table>
<thead>
<tr>
<th>AP English Literature &amp; Composition</th>
<th>AP Government &amp; Politics: US</th>
<th>AP Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Biology</td>
<td>AP Psychology</td>
<td></td>
</tr>
</tbody>
</table>

*AP and college credit courses are calculated as weighted credit with multipliers of 1.25/1.50 in the student’s GPA.

CREDIT BY EXAMINATION

The college credits will be awarded according to the college’s “credit by examination” policy. There will be no charge for transcription of this credit. The student’s high school grades for the specific course will not be factored into his/her college GPA.

Missouri Connections is a comprehensive, Internet-based career information system that allows students and parents to explore careers and colleges, participate in career assessments, educational and occupational planning and job preparation and management. You can also view and update your Personal Plan of Study and Portfolio.

1. Go to www.missouriconnections.org
2. Login with: Username: (lunch number)Butler Password: Gobears1
3. Click on: My Portfolio
   a. Review Course Plan (Personal Plan of Study)
   b. Review Combined Report of Assessments (Career Cluster Inventory, Interest Profiler, Occupation Sort)
   c. Review Favorites (saved Occupations)
4. Click on: Assessments (Reality Check, SKILLS, Work Importance Locator, Learning Styles, Employability Skills)
PURPOSE of CAREER PATHS & CAREER CLUSTERS

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

Students complete career exploration assessments starting in the 8th grade. This is a way the student can identify an initial career path choice. Counselors will then use this information to assist students in making course selections and developing a plan of study. Each year, the high school counselor will help the student update his/her personal plan of study and career path.

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
School Counseling
Missouri Department of Elementary and Secondary Education
August 2018

Definition and Purpose:

1. **School Counseling Grade Level Expectations (GLEs):** The systematic, sequential and developmentally appropriate set of knowledge, skill and understanding for the K-12 counseling curriculum.

2. **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.

3. **Individual Career & Academic Plan (ICAP):** A student’s scope and sequence of coursework 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. (Formerly the Personal Plan of Study).

4. **Program of Study (POS):** Secondary-to-postsecondary sequences of academic and career education coursework, along with additional learning opportunities, that lead students to attain a postsecondary degree or industry-recognized certificate or credential.

5. **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.

6. **Missouri Connections:** A free web-based career and educational planning resource to help Missouri citizens determine their career interests, explore occupations, establish education plans, develop job search strategies, and create résumés. www.missouriconnections.org
Explore Career Paths

If you like:
- Music
- Dancing
- Painting
- Entertaining others
- Movies
- Singing
- Writing

And you think you might like to be:
- An artist
- A photographer
- A producer/director
- A musician
- A teacher of the arts
- A cartoonist
- An actor/actress
- A dancer
- A choreographer
- A visual designer
- A television announcer

Your choice might be:

Arts & Communications

If you like:
- Computers
- Building things
- Numbers

And you think you might like to be:
- Your own boss
- A stock broker
- A store manager
- An office manager
- A court reporter
- A legal secretary
- A financial planner
- A computer programmer
- An accountant

Your choice might be:

Business, Management & Technology

If you like:
- Caring for people
- Science
- Learning how the body works
- Working with people
- Blood

And you think you might like to be:
- An athletic trainer
- A dental assistant
- A dentist
- An embalmer
- A pharmacist
- A physician
- A registered nurse
- A psychiatrist
- A paramedic

Your choice might be:

Health Services

If you like:
- Working with people
- Being in charge
- Working on a team
- Speaking to groups

And you think you might like to be:
- A teacher
- A judge
- A chef
- A police officer/detective
- A hotel/hotel manager
- A minister
- A lawyer

Your choice might be:

Human Services

If you like:
- Machines
- Solving puzzles
- Figuring how things work
- Building things
- Working on cars

And you think you might like to be:
- An engineer
- An architect
- An auto technician
- A surveyor
- A machinist
- A plumber
- A telephone technician
- An airline pilot

Your choice might be:

Industrial & Engineering Technology

If you like:
- Working outdoors
- Animals

And you think you might like to be:
- A farmer
- A marine biologist
- A forester
- A horse trainer
- An agronomist
- An astronomer
- A botanist
- A chemist
- A veterinarian
- A zoologist

Your choice might be:

Natural Resources
Make High School Count

It’s not too soon to start thinking about your future! If you are considering attending school (four-year college, university, career/technical school, or two-year college) after high school, you may find it helpful to do the following:

- Make a list of the schools that interest you.
- Gather information from each school and study it.
- Register to take the ACT or SAT Assessment before December of your senior year (spring of your junior year is recommended).
- Visit the campus of each school you are seriously considering.
- Apply early for admission and housing.
- Apply early for financial assistance. Pay attention to deadlines listed in the financial aid information you receive from your counselor and the schools you are interested in attending.
- Find out about local, state, federal and private student financial assistance programs.
- Make your decision. Take time to review all information carefully and weigh your options.

If you are considering serving in the Armed Forces after high school, you might find it helpful to do the following:

- Visit with friends, neighbors, and relatives who have served in various branches of the Armed Forces.
- Study the military literature available in your counseling office.
- Evaluate any physical limitations that might prevent you from serving in the Armed Forces.
- Compare military training opportunities with possible civilian occupations.
- Arrange with your counselor to visit with various military recruiters during your junior and senior years of high school. When meeting with recruiters, listen very carefully, ask tons of questions, and ask to see it in writing.
- Compare benefits, tours of duty, training, and promotion opportunities of military programs.

If you are considering direct employment after high school, you might find it helpful to:

- Explore your special abilities and interests with your school counselor.
- Collect and study materials about writing resumes and letters of application.
- Consider whether you want to move away from your home region after high school.
- Visit with individuals working in various occupations that may be of interest to you.
- Become familiar with major employers in the areas where you are interested in working.
### Arts & Communication

**Career Paths & Cluster**

Arts, Audio-Visual Technology & Communication

Students must meet Butler High School graduation requirements. These courses are suggested for students interested in this career area.

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<td>½ unit of Personal Finance taken in 10th grade</td>
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</tr>
<tr>
<td>Suggested Electives</td>
<td>Any Art/Music/Theatre class, Newspaper, Speech, Yearbook, Multimedia, Career &amp; Family Leadership, AP Psychology, Food Science/World Foods, Culinary Arts, Computer Science Principles, Culinary Arts (NRTC), Graphic Arts (NRTC)</td>
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<td></td>
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**Recommended Clubs & Activities:** Art Club, Choir, Drama Club, Journalism Club, Speech/Debate, FCCLA, SkillsUSA, Marching Band, Photograph/record a school activity, School newspaper staff, School play or musical, Yearbook staff, Act in a community production, Create a community website or promotional video, Internships, Job shadow professionals, Join community band, choir, orchestra or theatre, Participate in a community art project, Take dance lessons

**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.

- [www.missouriconnections.org](http://www.missouriconnections.org)
- [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.com](http://www.army.com) (Army)
- [www.navy.com](http://www.navy.com) (Navy)
- [www.nationalguard.mil](http://www.nationalguard.mil) (National Guard)
- [www.marines.com](http://www.marines.com) (Marines)
- [www.airforce.com](http://www.airforce.com) (Air Force)
- [www.gocoastguard.com](http://www.gocoastguard.com) (Coast Guard)

**Career Possibilities in Arts, Audio-Visual Technology & Communication**

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<thead>
<tr>
<th>Arts, A-V Technology &amp; Film</th>
<th>Journalism and Broadcasting</th>
<th>Printing Technology</th>
<th>Telecommunications</th>
<th>Performing Arts</th>
<th>Visual Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animator</td>
<td>Advertising</td>
<td>Desktop Publishing</td>
<td>Central Office Installer</td>
<td>Actor/Actress</td>
<td>Art Director</td>
</tr>
<tr>
<td>Audio Technician</td>
<td>Broadcast Radio</td>
<td>Specialist</td>
<td>Network &amp; Computer Administrator</td>
<td>Agent or Business Manager</td>
<td>Artist</td>
</tr>
<tr>
<td>Interpreter</td>
<td>News Analyst</td>
<td>Prepress Technician</td>
<td>Telecommunications Equipment Installer</td>
<td>Choreographer</td>
<td>Commercial Photographer</td>
</tr>
<tr>
<td>Linguist</td>
<td>Editor</td>
<td>Press Operator</td>
<td></td>
<td>Composer</td>
<td>Fashion Designer</td>
</tr>
<tr>
<td>Sound Engineer Technician</td>
<td>Film/Art Critic</td>
<td></td>
<td></td>
<td>Director/Producer</td>
<td>Graphic Designer</td>
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<tr>
<td></td>
<td>Reporter</td>
<td></td>
<td></td>
<td>Model</td>
<td>Floral Designer</td>
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<tr>
<td></td>
<td>Writer</td>
<td></td>
<td></td>
<td>Musician</td>
<td>Graphic Designer</td>
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<td>Professional Athlete</td>
<td>Interior Designer</td>
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<td>Athlete</td>
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<td>Singer</td>
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# Business, Management & Technology

## Career Paths & Cluster

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<td>Literature &amp; Comp</td>
<td>College English 101/102</td>
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<td></td>
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<tr>
<td></td>
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<td></td>
<td>Government &amp; Politics</td>
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### Recommended Clubs & Activities:
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### 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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### Career Possibilities in Business, Management & Administration

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<th>Human Resources Management</th>
<th>Administrative Support</th>
<th>Operations Management</th>
<th>Business Information Management</th>
<th>General Management</th>
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<tbody>
<tr>
<td>• Compensation, Benefits and Job Analysis Specialist</td>
<td>• Administrative Assistant</td>
<td>• Buyer/Planner</td>
<td>• Budget Analyst</td>
<td>• Administrative Services Manager</td>
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<td>• Corporate Trainer</td>
<td>• Communications</td>
<td>• Facilities Manager</td>
<td>• Business Consultant</td>
<td>• Chief Executive Officer</td>
</tr>
<tr>
<td>• Human Resources Manager</td>
<td>• Equipment Operator</td>
<td>• Inventory Manager</td>
<td>• Business Operations Specialist</td>
<td>• General Manager</td>
</tr>
<tr>
<td>• OSHA/ADA Compliance Officer</td>
<td>• Data Entry Specialist</td>
<td>• Procurement Officer</td>
<td>• Price Analyst</td>
<td>• Management Analyst</td>
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<tr>
<td>• Personnel Recruiter</td>
<td>• Office Manager</td>
<td>• Quality Control</td>
<td>• Product Manager</td>
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<td>• Receptionist</td>
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<td>• Stenographer</td>
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www.marines.com (Marines)  www.airforce.com (Air Force)  www.gocostguard.com (Coast Guard)

**Career Possibilities in Finance**

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

- Investment Advisor
- Personal Finance Advisor
- Securities & Commodities Agents
- Financial Services Sales Agents
- Tax Preparation
Students must meet Butler High School graduation requirements. These courses are suggested for students interested in this career area.

### High School Courses

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<td></td>
</tr>
</tbody>
</table>

### Recommended Clubs & Activities:
- FBLA, FCCLA, SkillsUSA, TSA, Student Council, Problem Solving Club, Job shadow professionals, Develop web pages, Set-up computers and install software, Create a community web site or promotional video, Newspaper or Yearbook staff, Help individuals use a computer, Speech & Debate,

### 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.gocoastguard.com](http://www.gocoastguard.com) (Coast Guard)

### Career Possibilities in Information & Technology

- **Programming & Software Development**
  - Computer Programmer
  - Computer Software Engineer
  - Data Modeler
  - Game Programmer
  - Tester

- **Information Support & Services**
  - Computer & Information Systems Manager
  - Computer Support Specialist
  - Customer Liaison
  - Database Administrator
  - Help Desk specialist
  - Information Systems Architect
  - Technical Writer

- **Network Systems**
  - Computer Systems Analyst
  - Data Communications Analyst
  - Information Systems Operator
  - Information Technology Engineer
  - Network Architect
  - PC Support Specialist
  - Telecommunications Network Technician

- **Web & Digital Communications**
  - 3D Animator
  - Audio/Visual Engineer
  - Streaming Media Specialist
  - Web Designer
  - Webmaster
Students must meet Butler High School graduation requirements. These courses are suggested for students interested in this career area.

**High School Courses**

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**Recommended Clubs & Activities:** FBLA, FCCLA, FFA, Student Council, Speech/Debate Club, Interact, Job shadow professionals, Class or club fundraisers, Join a committee to plan an event, Newspaper or Yearbook staff, Participate in youth leadership programs, Visit the Chamber of Commerce, Job shadow professionals in the field/career path

**Post-Secondary Options**

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<tr>
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<th>Marketing Communications</th>
<th>Marketing Research</th>
<th>Professional Sales</th>
<th>Merchandising</th>
</tr>
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<tbody>
<tr>
<td>Advertising &amp;</td>
<td>Media Buyer</td>
<td>Customer Service</td>
<td>Field Representative</td>
<td>Merchandise Buyer</td>
</tr>
<tr>
<td>Promotions Manager</td>
<td>Public Information</td>
<td>Representative</td>
<td>Real Estate Sales Agent</td>
<td>Purchasing Agent</td>
</tr>
<tr>
<td>Distributor</td>
<td>Director</td>
<td>Interviewer</td>
<td>Retail Salesperson</td>
<td>Purchasing Manager</td>
</tr>
<tr>
<td>Entrepreneur</td>
<td>Public Relations</td>
<td>Market Research</td>
<td>Sales Engineer</td>
<td>Retail Marketing</td>
</tr>
<tr>
<td>Franchisee</td>
<td>Manager</td>
<td>Analyst</td>
<td>Sales Manager</td>
<td>Coordinator</td>
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<tr>
<td>Marketing Manager</td>
<td>Public Relations</td>
<td></td>
<td>Sales Representative</td>
<td></td>
</tr>
<tr>
<td>Small Business Owner</td>
<td>Specialist</td>
<td></td>
<td>Territory Representative</td>
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<td></td>
<td>Research Specialist</td>
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**Recommended Clubs & Activities:** SkillsUSA, TSA, Connect with Architects in your area, Do home repair projects, Learn about the history of the buildings in your community, Work with contractor, Art Club

### Post-Secondary Options

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### Career Possibilities in Architecture and Construction

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<th>Design and Pre-Construction</th>
<th>Construction</th>
<th>Maintenance and Operations</th>
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<tbody>
<tr>
<td>Architect</td>
<td>Brick mason</td>
<td>Heating, Air Conditioning and Refrigeration Mechanic / Installer</td>
</tr>
<tr>
<td>Architectural Drafter/Technician</td>
<td>Carpenter</td>
<td>Heavy Equipment Operator</td>
</tr>
<tr>
<td>Automotive Design Technician</td>
<td>Construction Laborer</td>
<td>Highway Worker</td>
</tr>
<tr>
<td>Engineer Tech</td>
<td>Construction Manager</td>
<td>Millwright</td>
</tr>
<tr>
<td>Cartographer</td>
<td>Electrician</td>
<td>Operating Engineer</td>
</tr>
<tr>
<td>Cost Estimator</td>
<td>Glazier</td>
<td>Telecommunications Line Installer and Repairer</td>
</tr>
<tr>
<td>Landscape Architect</td>
<td>Hazardous Materials Removal Worker</td>
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</tr>
<tr>
<td>Mechanical Engineer</td>
<td>Painter</td>
<td></td>
</tr>
<tr>
<td>Surveyor</td>
<td>Paper Hanger</td>
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</tr>
<tr>
<td>3D Renderer Designer</td>
<td>Plumber, Pipefitter, Steamfitter</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Roofer</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Welder, Cutter, Solderer and Brazer</td>
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Recommended Youth Activities: SkillsUSA, TSA, Robotics Club, 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

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<tr>
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<th>Math &amp; Science</th>
</tr>
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<tbody>
<tr>
<td>Chemical Engineer</td>
<td>Atmospheric Scientist</td>
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<tr>
<td>Mining Engineer</td>
<td>Biochemist</td>
</tr>
<tr>
<td>Nuclear Engineer</td>
<td>CAD Operator</td>
</tr>
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<td>Chemist</td>
</tr>
<tr>
<td>Power Systems Engineer</td>
<td>Conservation Scientist</td>
</tr>
<tr>
<td>Quality Technician</td>
<td>Demographer</td>
</tr>
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<td>Economist</td>
</tr>
<tr>
<td>Ceramics Engineer</td>
<td>Environmental Scientist</td>
</tr>
<tr>
<td>Mechanical Engineer</td>
<td>Geological &amp; Petroleum Technician</td>
</tr>
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<td>Geologist</td>
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<td>Electro-Mechanical Engineer</td>
<td>Lab Technician</td>
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<tr>
<td>Environmental Engineer</td>
<td>Math Teacher</td>
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<tr>
<td>Hazardous Waste Engineer</td>
<td>Research Technician</td>
</tr>
<tr>
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**Fine Arts**  
One unit fine art is required (Art, Instrumental or Vocal Music)

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

**Practical Arts**  
½ unit is required (Business, FACS, Engineering & Industrial Tech, Agriculture, NRTC classes)

**Personal Finance**  
½ unit of Personal Finance taken in 10th grade

**Suggested Electives**  

### 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

### Post-Secondary Options

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<th>Logistics Planning &amp; Mgmt Systems</th>
<th>Transportation Operations</th>
<th>Transportation Systems &amp; Infrastructure</th>
<th>Sales and Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Logistics</td>
<td>Airline Pilot</td>
<td>Air Traffic Controller</td>
<td>Cashier</td>
</tr>
<tr>
<td>Logistician</td>
<td>Delivery Truck Driver</td>
<td>Civil Engineer</td>
<td>Counter or Rental Clerk</td>
</tr>
<tr>
<td>Logistics Analyst</td>
<td>Dispatcher</td>
<td>Motor Vehicle Inspector</td>
<td>Customer Order Clerk</td>
</tr>
<tr>
<td>Logistics Engineer</td>
<td>Flight Attendant</td>
<td>Regulator</td>
<td>Sales Manager</td>
</tr>
<tr>
<td>Traffic Technician</td>
<td>Locomotive Engineer</td>
<td>Surveying and Mapping Technician</td>
<td>Sales Representative</td>
</tr>
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<td></td>
<td>Tractor-Trailer Truck Driver</td>
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<td>Transportation Agent</td>
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<th>Facility and Mobile Equipment Maintenance</th>
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<tbody>
<tr>
<td>Hazardous Materials Removal Worker</td>
<td>Freight, Stock and Material Handlers</td>
<td>Aircraft Mechanic</td>
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<td>Industrial Health and Safety Engineer</td>
<td>Industrial and Packing Engineer</td>
<td>Automotive Body Repairer</td>
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<td>Environmental Compliance Inspector</td>
<td>Rigger</td>
<td>Automotive Service Technician/Mechanic</td>
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<td>Safety Analyst</td>
<td>Shipping, Receiving and Traffic Clerk</td>
<td>Bus and Truck Mechanic and Diesel Specialist</td>
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<td>Storage and Transportation Manager</td>
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<td>Tank Car, Truck, and Ship Loader</td>
<td>Mobile Heavy Equipment Mechanic</td>
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<td>½ unit is required (Business, FACS, Engineering &amp; Industrial Tech, Agriculture, NRTC classes)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Personal Finance</td>
<td>½ unit of Personal Finance taken in 10th grade</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Suggested Electives</td>
<td>Speech, Principles of Biomedical Science, AP Biology, Calculus, AP Psychology, Child Development, Spanish 1601/1602, Computer Applications, Physics, Intro to Engineering, Principles of Engineering, Health Sciences (NRTC), Probability &amp; Statistics, College Math 1111</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Recommended Clubs & Activities: FCCLA, SkillsUSA, Student Council, other organizations that provide an opportunity to gain leadership and management skills, Scouting organizations, Job Shadow, Volunteer at Hospital/Nursing Homes, Health Science camps, Volunteer with Red Cross, Certified CPR, Volunteer at health fairs, ACES PRIMO

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.com (Marines)       www.airforce.com (Air Force)       www.gocoastguard.com (Coast Guard)

Career Possibilities in Health Science

<table>
<thead>
<tr>
<th>Biotechnology Research &amp; Development</th>
<th>Therapeutic Services</th>
<th>Diagnostics Services</th>
<th>Health Informatics</th>
<th>Support Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Biological Technician</td>
<td>• Anesthesiologist</td>
<td>• Cardiology Tech</td>
<td>• Health Care</td>
<td>• Biomedical Engineer</td>
</tr>
<tr>
<td>• Clinical Trials Research</td>
<td>• Athletic Trainer</td>
<td>• Diagnostic Medical</td>
<td>Administrator</td>
<td>Environmental</td>
</tr>
<tr>
<td>• Epidemiologist</td>
<td>• Chiropractor</td>
<td>Sonographer</td>
<td>Educational Services</td>
<td></td>
</tr>
<tr>
<td>• Geneticist</td>
<td>• Dental Hygienist</td>
<td>• Medical &amp; Health</td>
<td>Facilities Manager</td>
<td></td>
</tr>
<tr>
<td>• Epidemiologist</td>
<td>• Dentist</td>
<td>Services Manager</td>
<td>Food Service</td>
<td></td>
</tr>
<tr>
<td>• Lab Technician</td>
<td>• Home Health Aide</td>
<td>• Medical Records</td>
<td>Hospital Maintenance</td>
<td></td>
</tr>
<tr>
<td>• Medical Scientist</td>
<td>• Optometrist</td>
<td>&amp; Health Info Tech</td>
<td>Engineer</td>
<td></td>
</tr>
<tr>
<td>• Microbiologist</td>
<td>• Paramedic</td>
<td>• Medical Social</td>
<td>Industrial Hygienist</td>
<td></td>
</tr>
<tr>
<td>• Research Assistant</td>
<td>• Pharmacist</td>
<td>Worker</td>
<td>Medical Assistant</td>
<td></td>
</tr>
<tr>
<td>• Toxicologist</td>
<td></td>
<td>• Medical Transcriptionist</td>
<td>Medical Equipment</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Repairer</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pharmacy Aide</td>
<td></td>
</tr>
</tbody>
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Students must meet Butler High School graduation requirements. These courses are suggested for students interested in this career area.

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<tr>
<th>High School Courses</th>
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<td></td>
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<tr>
<th>Post-Secondary Options</th>
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</tr>
</tbody>
</table>

Career Possibilities in Education and Training

<table>
<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>• School 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>
<tr>
<td></td>
<td></td>
<td>• Preschool Teacher</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Preschool Aide</td>
</tr>
</tbody>
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## Human Services
### Government and Public Administration

Students must meet Butler High School graduation requirements. These courses are suggested for students interested in this career area.

### High School Courses

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<td>½ unit Health</td>
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- **Fine Arts**: One unit fine art is required (Art, Instrumental or Vocal Music or Theatre)
- **Foreign Language**: Two units same language are recommended/required for students attending a 4-year college
- **Practical Arts**: ½ unit is required (Business, FACS, Engineering & Industrial Tech, Agriculture, NRTC classes)
- **Personal Finance**: ½ unit of Personal Finance taken in 10th grade
- **Suggested Electives**: Accounting II, Business Management, Speech, Sociology, AP Psychology, Computer Apps I, Spanish 1601/1602, Ag Leadership

### 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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### Career Possibilities in Government & Public Administration

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<thead>
<tr>
<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>- Legislator</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>
<tr>
<td>- Lobbyist</td>
<td>- Tax Attorney</td>
<td>- Economic Development</td>
<td>- Diplomatic Courier</td>
</tr>
<tr>
<td>- Public Advisor</td>
<td>- Tax Examiner</td>
<td>- Coordinator</td>
<td>- Economic Foreign Service Officer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Global Imaging Systems Specialist</td>
<td>- Political Foreign Service Officer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Public Mgmt. &amp; Admin.</th>
<th>National Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Aviation Safety Officer</td>
<td>- Archeologist</td>
<td>- Air Defense Artillery</td>
</tr>
<tr>
<td>- Bank Examiner</td>
<td>- Archivist</td>
<td>- Combat Engineer or Aircraft Pilot</td>
</tr>
<tr>
<td>- Cargo Inspector</td>
<td>- City Manager</td>
<td>- Cryptographer</td>
</tr>
<tr>
<td>- Code Inspector</td>
<td>- Court Administrator</td>
<td>- Electronic Warfare Operations</td>
</tr>
<tr>
<td>- Court, Municipal and License Clerk</td>
<td>- Curator</td>
<td>- Infantry Field Artillery</td>
</tr>
<tr>
<td>- Election Supervisor</td>
<td>- Executive Director of an Association, Foundation, or Chamber of Commerce</td>
<td>- Intelligence/Counter-intelligence Agent</td>
</tr>
<tr>
<td>- Immigration Officer</td>
<td>- Program Administration Officer</td>
<td>- Missile and Space Systems</td>
</tr>
<tr>
<td>- Postal Service Mail Carrier</td>
<td></td>
<td>- Special Forces</td>
</tr>
</tbody>
</table>
## Human Services
### Hospitality & Tourism

Students must meet Butler High School graduation requirements. These courses are suggested for students interested in this career area.

### High School Courses

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<tbody>
<tr>
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<td>English IV or Crowder College English 101/102</td>
</tr>
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<td>Algebra I or Geometry</td>
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<td></td>
</tr>
<tr>
<td>Social Studies (3 units)</td>
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</tr>
</tbody>
</table>

### Physical Education & Health

<table>
<thead>
<tr>
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<th>Grade 10</th>
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<th>Grade 12</th>
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<tbody>
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<td>Physical Education &amp; Health</td>
<td>½ unit Health</td>
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<td></td>
</tr>
</tbody>
</table>

### Fine Arts

<table>
<thead>
<tr>
<th>Subject</th>
<th>Grade 9</th>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fine Arts</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Foreign Language

<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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</thead>
<tbody>
<tr>
<td>Foreign Language</td>
<td>Two units same language are recommended/required for students attending a 4-year college</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Practical Arts

<table>
<thead>
<tr>
<th>Subject</th>
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<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practical Arts</td>
<td>½ unit</td>
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</tr>
</tbody>
</table>

### Personal Finance

<table>
<thead>
<tr>
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<th>Grade 10</th>
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</thead>
<tbody>
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<td></td>
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### Suggested Electives

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### Career Possibilities in Hospitality & Tourism

<table>
<thead>
<tr>
<th>Restaurants and Food &amp; Beverage Service</th>
<th>Recreation, Amusement &amp; Attractions</th>
<th>Lodging</th>
<th>Travel &amp; Tourism</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baker</td>
<td>Conservator</td>
<td>Laundry Attendant</td>
<td>Director of Sales &amp; Marketing</td>
</tr>
<tr>
<td>Chef</td>
<td>Equipment &amp; Facility Maintenance</td>
<td>Lodging Manager</td>
<td>Event Planner</td>
</tr>
<tr>
<td>Counter Server</td>
<td>Event Planner</td>
<td>PBX Operator</td>
<td>Interpreter</td>
</tr>
<tr>
<td>First Line Supervisor</td>
<td>Gaming Manager</td>
<td>Reservations Supervisor</td>
<td>Tour Guide</td>
</tr>
<tr>
<td>Food &amp; Beverage Manager</td>
<td>Museum Technician</td>
<td>Valet Attendant</td>
<td>Transportation Specialist</td>
</tr>
<tr>
<td>General Manager</td>
<td>Museum, Zoo or Aquarium Exhibit Developer</td>
<td></td>
<td>Travel Agent</td>
</tr>
<tr>
<td>Manager of Food Preparation &amp; Serving Workers</td>
<td>Parks &amp; Garden Ranger</td>
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<td></td>
</tr>
<tr>
<td>Recreational Workers</td>
<td>Recreation Worker</td>
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- **Suggested Electives**

**Recommended Clubs & Activities**: FCCLA, FBLA, Student Council, NHS, Spanish Club, Athletics, Speech/Debate, Interact, Work with organizations that have a strong community service component, Scouting organizations, 4-H, Teach religious classes, Volunteer in soup kitchens or food pantries or agencies who serve people, Work with individuals who are aged or disabled, Ambassador Program

**Post-Secondary Options**

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**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
Students must meet Butler High School 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>
</tr>
</thead>
<tbody>
<tr>
<td>English (4 units)</td>
<td>English I</td>
<td>English II</td>
<td>English III or AP English Literature &amp; Comp</td>
<td>English IV or Crowder College English 101/102</td>
</tr>
<tr>
<td>Math (3 units)</td>
<td>Algebra I or Geometry</td>
<td>Geometry or Algebra II</td>
<td>Geometry or Integrated Math or Algebra II or Probability &amp; Statistics or College Math</td>
<td>College bound students should choose a 4th unit of math.</td>
</tr>
<tr>
<td>Science (3 units)</td>
<td>Physical Science or Biology</td>
<td>Biology, Adv Biology or Chemistry</td>
<td>Chemistry, Adv Biology, Adv Chemistry, Ecology</td>
<td>College bound students should choose a 4th unit of science. i.e. AP Biology or Physics</td>
</tr>
<tr>
<td>Social Studies (3 units)</td>
<td>American History</td>
<td>World History</td>
<td>American Government or AP Government &amp; Politics</td>
<td>College bound students should choose a 4th unit of social studies.</td>
</tr>
<tr>
<td>High School Courses</td>
<td>½ unit Health</td>
<td>1 unit elective PE class (Physical Education, Advanced Fitness)</td>
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</tr>
<tr>
<td>Fine Arts</td>
<td>One unit fine art is required (Art, Instrumental or Vocal Music or Theatre)</td>
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<tr>
<td>Foreign Language</td>
<td>Two units same language are recommended/required for students attending a 4-year college</td>
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</tr>
<tr>
<td>Practical Arts</td>
<td>½ unit is required (Business, FACS, Engineering &amp; Industrial Tech, Agriculture, NRTC classes)</td>
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<tr>
<td>Personal Finance</td>
<td>½ unit of Personal Finance taken in 10th grade</td>
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</tr>
</tbody>
</table>

Recommended Clubs & Activities: FCCLA, Athletics, A+ mentor, Student Council, Spanish Club, Speech/Debate, Interact other organizations that provide an opportunity to gain leadership and management skills, 4-H, Scouting organizations, Provide child care, Teach religious classes, Job shadowing

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.

- [www.missouriconnections.org](http://www.missouriconnections.org)
- [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.com](http://www.army.com) (Army)
- [www.navy.com](http://www.navy.com) (Navy)
- [www.nationalguard.mil](http://www.nationalguard.mil) (National Guard)
- [www.marines.com](http://www.marines.com) (Marines)
- [www.airforce.com](http://www.airforce.com) (Air Force)
- [www.gocoastguard.com](http://www.gocoastguard.com) (Coast Guard)

Career Possibilities in Law, Public Safety, Corrections & Security

<table>
<thead>
<tr>
<th>Law Enforcement Services</th>
<th>Emergency &amp; Fire Management Services</th>
<th>Security &amp; Protective Services</th>
<th>Legal Services</th>
<th>Corrections Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Control Officer</td>
<td>Dispatcher</td>
<td>Computer Security Specialist</td>
<td>Arbitrator</td>
<td>Case Manager</td>
</tr>
<tr>
<td>Bomb Technician</td>
<td>Emergency Medical Technician/Paramedic</td>
<td>Forensic Science Technician</td>
<td>Attorney</td>
<td>Corrections Officer</td>
</tr>
<tr>
<td>Criminal Investigator</td>
<td>Emergency Management &amp; Response Coordinator</td>
<td>Gaming Surveillance Officer/Investigator</td>
<td>Court, Municipal &amp; License Clerk</td>
<td>Probation &amp; Parole Officer</td>
</tr>
<tr>
<td>Federal Marshall</td>
<td>Firefighter</td>
<td>Industrial Espionage Security</td>
<td>Judge</td>
<td>Transport Officer</td>
</tr>
<tr>
<td>Park Ranger</td>
<td>Forest Firefighter</td>
<td>Loss Prevention Assistant</td>
<td>Law Clerk</td>
<td>Youth Services Worker</td>
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<tr>
<td></td>
<td></td>
<td>Security Guard</td>
<td>Paralegal &amp; Legal Assistant</td>
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### High School Courses

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<td></td>
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</table>

#### Recommended Clubs & Activities
- FFA, SkillsUSA, FCCLA, Student Council, other organizations that provide an opportunity to gain leadership and management skills.
- 4-H, Scouting organizations, Recycle, Grow/sell your own produce at farmers' market, Work on a farm, Job Shadow a veterinarian, Volunteer at local animal shelter.

### 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.marines.com](http://www.marines.com) (Marines)
- [www.airforce.com](http://www.airforce.com) (Air Force)
- [www.gocoastguard.com](http://www.gocoastguard.com) (Coast Guard)

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

#### Animal Systems
- Animal Breeder, Geneticist, Nutritionist, Scientist, Aquaculturist, Farmer or Rancher, Veterinarian, Zoologist

#### Food Products & Processing
- Agriculture & Food Science Tech, Agriculture Inspector, Bacteriologist, Biochemist, Food & Drug Inspector, Food & Fiber Engineer, Meat, Poultry, Fish Cutter, Microbiologist

#### Plant Systems
- Botanist, Farmer/Rancher, Forester, Landscaping Manager, Plant Geneticist, Soil & Water Specialist, Tree Surgeon

#### Agribusiness Systems
- Agricultural Commodity Broker, Agricultural Economist, Agricultural Loan Officer, Agricultural Products Buyer, International Agri-Marketing Specialist

#### Power, Structural & Technical Systems
- Agricultural Tech, Biochemistry Tech, Equipment Parts Manager, Farm Equipment Mechanic, Global Positioning Systems Technician, Remote Sensing Specialist

#### Natural Resources & Environmental Systems
- Atmospheric/Space Scientist, Chemical Technicians, Conservation Scientist, Fisheries Manager, Geographer, Hazardous Materials Handler, Meteorologist, Pollution Prevention & Control Manager
H1003 ENGLISH I
Grade: 9  Credit: 1.0
This course develops skills in reading and writing standard American English. Reading selections include modern and classic fiction, non-fiction and Shakespeare. Writing includes paragraphs, essays and a formal research paper.

H1004 ENGLISH II
Grade: 10  Credit: 1.0
This course engages students in a variety of integrated language activities. These activities include reading to gain understanding and enjoyment, writing to express ideas effectively, speaking to express and support viewpoints and listening to become active, courteous communicators.

H1005 ENGLISH III
Grade: 11  Credit: 1.0
This course will focus on English grammar, usage, sentence structure, and mechanics of writing, vocabulary, and composition together with an introduction to American literature. The course is designed and presented to prepare the student for senior-level work in the field of communication arts. It is a traditionally structured course in English, stressing language, composition and literature.

H1033 AP ENGLISH LITERATURE & COMPOSITION  Weighted: 1.5
Grades: 11-12  Credit: 1.0
Prerequisite: B or higher in English and teacher approval.
Expectations: This course is a demanding, year-long commitment, requiring nightly study and preparation. All students enrolled in AP courses are expected to take the AP exam in May in the subject area. The cost is currently $91. Financial assistance is available to qualified students.
AP® English Literature and Composition is designed to be a college/university level course. This course will provide students with the intellectual challenges and workload consistent with a typical undergraduate university English literature/Humanities course. Students in this course will become skilled readers of imaginative literature, principally poetry, fiction, and drama, through extensive critical analysis. Students will practice extensive reading and writing to analyze writers’ structure, style, and themes as well as literary elements such as figurative language, symbolism, tone, and others. Students will partake in reading circles from a list of selected works as part of independent reading requirements.

H1006 ENGLISH IV
Grade: 12  Credit: 1.0
This course will help students develop an understanding of language and the ability to communicate through various reading, writing, listening and speaking activities. Students will develop the skills necessary to read and evaluate information, think critically to solve problems and express meaning clearly through written and oral language with emphasis on preparing for post-secondary academics and training.

H0127 COLLEGE ENGLISH 101  Weighted: 1.5
Grade: 12  Credit: 0.5
Prerequisite: English & Reading ACT score of 18, minimum unweighted GPA 3.0
College Credit: Crowder College (ENGL 101 & ENGL 102); may be earned for three credit hours each semester. Approximate fees are $60 per credit hour.
This course is a dual credit college composition course(s). English 101/102 requires personal and academic writing, critical thinking, analysis of electronic and written texts, and the analysis and synthesis of ideas. The goal is for students to meld the personal, cultural and academic into an essay showing their connections. Students will be required to write major essays in English 101/102.

H0127 COLLEGE ENGLISH 102
Grade: 12  Credit: 0.5

H1057 ENGLISH ACADEMY
Grade: 9-12  Credit: 1.0
This class is designed to assist any student who may be struggling with English concepts. Multiple data will be collected to identify students who may need additional support to master these concepts in English.
SOCIAL STUDIES

H3003 MODERN US HISTORY
Grade: 9 Credit: 1.0
This class is a survey of American History, focusing on the 1880’s to the present. This course will provide students with the opportunity to learn about various eras of American History. Emphasis will be given to discussing the present day as it impacts our nation today. **Passing both semesters of this course is required for high school graduation in Missouri.**

H3030 WORLD HISTORY
Grade: 10 Credit: 1.0
This course is designed to introduce students to the history of the world from the beginning of civilization to the civilizations of Pre-European Americans. Topics in this course include human origins, early empires, Ancient Rome and Greece, world religions, the Middle Ages and Pre-European American civilizations. During second semester this course is designed to introduce students to the history of the world from the Renaissance and Reformation to the present day. Topics in this course include the Renaissance, Reformation, Exploration, Enlightenment and Revolutions.

H3005 AMERICAN GOVERNMENT
Grade: 11 Credit: 1.0
This course is a study of the federal and state governments. Students will understand individual rights and civic responsibilities as voters. In addition to understanding how government works, what are the government’s responsibilities and what are citizen's responsibilities to the government, **Students must pass the U.S. and Missouri Constitution tests as a graduation requirement. It is also a graduation requirement to pass at least one semester of American Government in the state of Missouri.**

H3020 SOCIOLOGY I
Grades: 11-12 Credit: 0.5
H3021 SOCIOLOGY II
Grades: 11-12 Credit: 0.5
This course is designed to introduce the student to the study of sociology as the interactions between people and the phenomena that those interactions create, such as social structure, institutions, stratification and collective behavior.

H3400 AP GOVERNMENT & POLITICS: UNITED STATES
Grades:11-12 Weighted: 1.5 Credit: 1.0
**Expectations:** This course is a demanding, year-long commitment, requiring nightly study and preparation. All students enrolled in AP courses are expected to take the AP exam in May in the subject area. The cost is currently $91. Financial assistance is available to qualified students.

This course is intended to introduce students to the theory, institutions, and processes of American government and politics. The subjects covered include the basic principles of American government (e.g., liberal democracy, theories of representation, separation of powers, checks and balances, and federalism), as well as the major institutions of the American political system: the Congress, Presidency, Judiciary, and state and local governments. A substantial amount of time will be spent discussing civil rights and liberties. This course may be taken instead of traditional American Government.

H3210 PSYCHOLOGY I
Grades: 11-12 Credit: 0.5
H3220 PSYCHOLOGY II
Grades: 11-12 Credit: 0.5
This course is designed to introduce the student to the study of psychology as the scientific study of behavior and mental process and human and animal behaviors. Psychology II does more in-depth look at Personality, Adjustment and Social Psychology.

H3221 AP PSYCHOLOGY
Grades:11-12 Weighted: 1.5 Credit: 1.0
**Expectations:** This course is a demanding, year-long commitment, requiring nightly study and preparation. All students enrolled in AP courses are expected to take the AP exam in May in the subject area. The cost is currently $91. Financial assistance is available to qualified students.

This course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practices.
H2102 ALGEBRA I
Grade: 9
Credit: 1.0
This course focuses on Algebraic concepts and reasoning. In this course, students will learn to simplify expressions, solve equations and inequalities, use exponential rules, apply operations to polynomials, factor polynomials, graph linear equations, and solve systems of equations. Emphasis will also be placed on data collection and analysis as well as Algebraic problem solving.

H2102 MATH ACADEMY
Grade: 9-12
Credit: 1.0
This class is designed to assist any student who may be struggling with Math concepts. Multiple data will be collected to identify students who may need additional support to master these concepts and fill in any learning gaps in Math.

H2104 GEOMETRY
Grades: 9-10
Credit: 1.0
Prerequisite: Algebra I
Students will study topics of coordinate geometry, such as points, lines and planes. Mathematical reasoning is a very important purpose of the course, and students will use reasoning and logic to develop and write formal proofs. Students will explore properties of circles and different polygons, such as triangles and quadrilaterals. Basic principles of trigonometry and three-dimensional figures will also be introduced. This course will have additional support to ensure students will acquire key mathematic concepts.

H2200 INTEGRATED MATH
Grades: 11-12
Credit: 1.0
Prerequisite: Geometry
This course build upon Algebra and Geometry skills.

H2103 ALGEBRA II
Grades: 10-12
Credit: 1.0
Prerequisite: Geometry
This course presents and develops topics of inequalities, properties and graphs of linear, quadratic, power, exponential, logarithmic and rational functions, systems of equations, and probability and statistics. Problems and activities are provided to develop and enhance communication skills and give students a better understanding of how algebra is relevant to future lives and careers.

H2119 TRIGONOMETRY – Semester 1
Grades: 11-12
Credit: 0.5
This course covers Pythagorean relationships, trigonometric functions, right triangle trigonometry, angles of rotation and radian measure, graphs of trigonometric functions, and trigonometric formulas and identities.

H2117 PROBABILITY & STATISTICS – Semester 2
Grades: 11-12
Credit: 0.5
Prerequisite: Geometry and teacher approval.
This semester course is designed for students interested in math, science, business, economics and/or social science. Content includes the elementary principles of probability and statistics and their application in the study of problems arising in the analysis of experimental data. Topics include set theory, probability models, data displays, measures of central tendency and dispersion, normal and binomial distributions, and inferential statistics including hypothesis testing and sampling.

H2111 COLLEGE MATHEMATICS 1111
Grades: 11-12
Credit: 1.0
Prerequisite: Minimum GPA 3.0, Math ACT score of 22, Algebra 2 and teacher approval.
College Credit: University of Central Missouri (MATH 1111 College Algebra); may be earned for three credit hours. Approximate fees are $300.
This course is an advanced algebra/trigonometry course for students who are seeking college credit and/or preparing for college mathematics. Topics to be covered include: arithmetic/geometric sequences and series; graphs of the six trig functions; trigonometric identities; vectors; polar coordinates; and functions such as polynomial, rational, exponential, and logarithmic. Statistics, probability and analytic geometry will also be studied.
H2106 CALCULUS
Grade: 12
Weighted: 1.25
Credit: 1.0
Prerequisite: College Math 1111 or teacher approval
Calculus will provide an intensive review and integration of the topics from algebra, trigonometry, and analytical geometry as well as introduce and develop the major underpinnings for the topic of calculus in the preparation of its students for a college level calculus course. Furthermore, this course will also develop problem solving skills and present applications of calculus to various fields of study. This course is a weighted course for high school seniors. It should be stated that this course is in no way designed or taught to take the place of or be substituted for a first year calculus course at the college level.

H2121 AP STATISTICS
Grade: 11-12
Weighted: 1.5
Credit: 1.0
Prerequisite: Algebra 2 or teacher approval
Expectations: This course is a demanding, year-long commitment, requiring nightly study and preparation. All students enrolled in AP courses are expected to take the AP exam in May in the subject area. The cost is currently $91. Financial assistance is available to qualified students.
This course is the equivalent of a college level survey course and students may earn college credit by taking the AP National Exam in May. This course is to introduce students to the major concepts and tools of collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data, Sampling and Experimentation, Anticipating Patterns, and Statistical Inference.

SCIENCE

H4403 PHYSICAL SCIENCE
Grade: 9
Credit: 1.0
This course introduces students to the tools and influence of science, the structure, classification, and behavior of matter, the nature and transmission of energy, the properties of sound and light, and characterizing motion. The physics topics of motion, energy, work, sound, heat, light, electricity, and magnetism are introduced. The chemistry topics of atomic structure, bonding, chemical reactions, acids, bases, and salts are studied. The student is introduced to the idea of nuclear activity and its use as a source of energy. This class may be considered and introduction to chemistry and physics.

H4404 BIOLOGY I
Grades: 9-10
Credit: 1.0
This course explores fundamental characteristics of living matter from the molecular level to the biosphere level with emphasis on general biological principles. This course introduces the diversity of living organisms, their structure and function, and basic genetic principles with an emphasis on learning how to think scientifically.

H???? PRINCIPLES OF BIOMEDICAL SCIENCE
Grades 9 – 10
Weighted: 1.5
Credit: 1.0
In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person’s life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems. This course counts as a science credit. Course is pending BOE Approval.

H4405 CHEMISTRY I
Grades: 10-12
Weighted: 1.25
Credit: 1.0
Prerequisite: Biology and Algebra I
This course is a study of the composition, structure, and properties of matter and the changes it undergoes. Topics covered include atomic theory, periodic law, chemical bonding, chemical formulas, equations, reactions and stoichiometry, and the properties of gases.

H4427 ADVANCED BIOLOGY
Grades: 10-12
Weighted: 1.25
Credit: 1.0
Prerequisite: Biology I
This course develops a basic understanding of plant and animal form, function and relationships. This course examines botany, invertebrate and vertebrate zoology, and human anatomy and physiology. This course will aid in preparing students for higher education biological courses.
H4406  ECOLOGY
Grades: 11-12  Credit: 1.0
This course is developed around the lessons set by the Missouri Conservation Department. Students will understand the pieces of all science are inter-related and demonstrate how to connect those pieces to solve issues of the natural world.

H4412  FISH & WILDLIFE
Grades: 11-12  Credit: 1.0
Prerequisite: Agriculture Science I and Agriculture Science II
This course serves as preparation for a career or study in the wildlife, ecology and natural resources industries. Students will learn the identification and management of game and non-game wildlife species, fish and their habitats as well as their ecological needs. This course will count as the third science requirement.

H4426  AP BIOLOGY
Grades: 11-12  Weighted: 1.5
Credit: 1.0
Expectations: This course is a demanding, year-long commitment, requiring nightly study and preparation. All students enrolled in AP courses are expected to take the AP exam in May in the subject area. The cost is currently $91. Financial assistance is available to qualified students. This is an introductory level college biology course. Topics covered include biochemistry, cytology, thermodynamics, genetics, evolution, taxonomy, and ecology.

H4417  ADVANCED CHEMISTRY
Grades: 12  Weighted: 1.25
Credit: 1.0
Prerequisite: C or higher in Chemistry I and Algebra 2 is recommended.
This course covers properties of liquids and solids, solutions, acids/bases, reaction kinetics, equilibrium, redox reactions, and organic/nuclear chemistry.

H4418  PHYSICS
Grades: 12  Weighted: 1.25
Credit: 1.0
Prerequisite: Algebra I
This course is a study of the physical world. Topics include vectors, force and motion, work/energy, momentum/collisions, rotational motion, and thermodynamics.

H6020  PRINCIPLES OF ENGINEERING
Grades: 10-11  Weighted: 1.5
Credit: 1.0
Prerequisite: Algebra 1, Intro to Engineering Design
College Credit: Various college credit policies exist through Metropolitan Community College, Missouri S&T, University of Central Missouri, and other out-of-state colleges/universities.
The second course in the Project Lead The Way pathway. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. This course counts as a science credit.

FOREIGN LANGUAGE

H1401  SPANISH I
Grades: 9-12  Credit: 1.0
The student will speak, read, write, and understand basic sentences, paragraphs, and conversations correctly in Spanish; explain basic differences between U.S. and Hispanic culture; research and report events and prominent people in Hispanic History, as well as, where the Hispanic countries are located and name their capitols.

H1402  SPANISH II
Grades: 9-12  Credit: 1.0
Prerequisite: C or higher in Spanish I
Spanish II further develops the four skills of language learning. The student will speak, read, write, and understand more complex sentences, paragraphs, and conversations correctly in Spanish; explain and compare basic differences between U.S. and Hispanic culture; research and report events and prominent people in Hispanic History, and the Hispanic countries.
H1411 SPANISH III  
Grades: 11-12  
**Weighted:** 1.25  
**Credit:** 1.0  
**Prerequisite:** C or higher in Spanish II and teacher approval  
The student will speak, write, and understand more complex sentences, paragraphs, and conversations correctly in Spanish; read and discuss short stories and novels; explain and compare the culture between the U.S. and Hispanics; research and report events and prominent people in Hispanic History and the Hispanic countries.

H1408 COLLEGE SPANISH 1601  
Grades: 11-12  
**Weighted:** 1.5  
**Credit:** 0.5  
**Prerequisite:** C or higher in Spanish III  
**College Credit:** University of Central Missouri (SPANISH 1601 Elementary Spanish I); may be earned for three credit hours. Approximate fees are $300.  
The student will continue to use correct Spanish pronunciation; read and understand short stories and novels in Spanish; write more complex sentences, paragraphs, and conversations correctly in Spanish; understand more complex instructions and conversations in Spanish; explain and compare differences between U.S. and Hispanic cultures; research and report on Hispanic countries, prominent people in Hispanic History, and job possibilities that emphasize a need for the Spanish language.

H1409 COLLEGE SPANISH 1602  
Grades: 11-12  
**Weighted:** 1.5  
**Credit:** 0.5  
**Prerequisite:** C or higher in Spanish 1601 and teacher approval  
**College Credit:** University of Central Missouri (SPANISH 1602 Elementary Spanish II); may be earned for three credit hours. Approximate fees are $300.  
Spanish 1602 completes grammar units that will refine the student’s reading, speaking, writing, and listening skills. New reading, writing, listening, and speaking lessons will relate to the study of Spanish art and literature.

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**VISUAL ART (Fine Arts)**

H5091 ART I  
Grades: 9-12  
Credit: 1.0  
This course is designed as an introduction to the field of visual arts. Drawing, painting, sculpture and art history will be studied as well as brief studies in calligraphy, print making and ceramics.

H5092 ART II  
Grades: 10-12  
Credit: 1.0  
**Prerequisite:** Art I  
In this course students will study, to a fuller extent, media and techniques that are too advanced for beginning art classes. Greater skills will be developed in drawing, painting and sculpture. Art history and art movements will be explored as well as printmaking, oil painting and ceramics.

H5093 ART III  
Grades: 11-12  
Credit: 1.0  
**Prerequisite:** Art II  
This course is designed to help develop the artist as an individual in style, technique and subject matter. This course will allow student to build upon their own skills and prepare students who may play on a career in an art related filed. Greater independence and responsibility is required.

H5094 ART IV  
Grades: 12  
Credit: 1.0  
**Prerequisite:** Art III  
This course is designed to help develop the artist as an individual in style, technique and subject matter. Skill levels will be built upon and the course will help prepare students who are planning a career in an art related field. Greater independence and responsibility is essential and a portfolio of artwork should be developed to use for college and interviews.
MUSIC (Fine Arts)

H5055 BEGINNING BAND
Grades: 9-12 Credit: 1.0
This course is designed to help students who may not have participated in Band before, but would like to learn to play an instrument or would like to learn to play a different instrument.

H5051 MARCHING BAND/CONCERT BAND
Grades: 9-12 Credit: 1.0
During the fall this course is a study of marching techniques and literature of the modern marching band. In addition, there are summer practices and evening practices. This group performs at local parades, events and competitions. After Marching Band season is over, Concert Band begins. The Concert Band performs at concerts, events, and contest. Students will be graded on their performance and participation. Pep band is taken from this group.

H5071 MIXED CHORUS
Grades: 9-12 Credit: 1.0
This organization will carry a share of the performing responsibilities of the senior high school vocal music department which could include Christmas; Kaleidoscope or school musical; all conference choir; and any area performances. Members will be expected to conform with the adopted dress of the group. A major part of the year will be spent preparing for District Music Festival and providing students opportunities to participate as soloists and small ensemble members as well as members of the choir.

H5070 POP CHORUS
Grades: 9-12 Credit: 1.0
Prerequisite: By audition only.
Chorus is a select group of students performing music of ad libitum form. Members must audition and, with the consent of the music director, will be permitted to join pop chorus. Much of the music will be choreographed and many programs are provided by this group during the school year for organizations.

H5072 MUSIC APPRECIATION
Grades: 9-12 Credit: 1.0
This fine art credit course is intended to provide students with an understanding of music beyond casual listening so that the individual student will grow in his/her personal enjoyment of music. Students and teachers share their favorite genres of music. Some music history and famous composers are studied.

BUSINESS (Practical Arts)

H7101 COMPUTER APPLICATIONS
Grades: 9-12 Credit: 1.0
This class is designed to provide high school students with an opportunity to reach the intermediate competency level in all software applications: presentations, databases, spreadsheets, web page design, word processing and desktop publishing.

H1201 PUBLICATIONS YEARBOOK
Grades: 11-12 Credit: 1.0
Class members will be responsible for certain sections of the Butlerite, the school yearbook. They will learn about layout and design, writing copy, computer skills and desktop publishing, and photography. The students will also be involved with advertising and yearbook sales.

H7121 DESKTOP PUBLISHING/NEWSPAPER
Grades: 11-12 Credit: 1.0
Newspaper offers the student opportunities to experience the various aspects of newspaper work. They will learn practical news writing, editorial and feature writing and sports coverage, as well as desktop publishing. They will also learn how to use digital photography and Photoshop. They are responsible for the organization and production of the school newspaper, the Bear Essentials.
H7124 MULTIMEDIA
Grades: 10-12                      Credit: 1.0
Prerequisite: Teacher Approval
Students will be the public relations department for Butler High. Students will post school news and events on Facebook and Twitter. They will update the high school web page. In addition, students will complete small projects such as sports programs and flyers using various Photoshop and Publisher.

H7201 ACCOUNTING I
Grades: 10-12                      Credit: 1.0
This course teaches the basic principles, concepts, and procedures of double entry accounting that every student needs to understand if he expects to have a maximum opportunity when he enters the world of business. These principles are presented and practiced using manual and computerized accounting procedures. Accounting also introduces special types of business records and how to file these business records.

H7211 ACCOUNTING II
Grades: 11-12                      Credit: 1.0
Weighted: 1.25
Prerequisite: Accounting I
Articulated Credit: Metropolitan Community College (BSAD 101: Accounting Principles I) may be earned for 3 credit hours
Accounting II emphasizes entry-level careers in accounting and how students can progress up the accounting career ladder. An opportunity is provided for students to become accounting clerks or accountants’ assistants upon graduation from high school, or go to college and major in accounting or some other phase of business administration. Hands-on computerized accounting is emphasized.

H7302 PERSONAL FINANCE
Grades: 10-12                      Credit: 0.5
This course presents essential knowledge and skills to make informed decisions about real world financial issues. Students will learn how choices influence occupational options and future earning potential. Students will also learn to apply decision-making skills to evaluate career choices and set personal goals. The course content is designed to help the learner make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success.
This course is a graduation requirement in Missouri.

H7103 BUSINESS MANAGEMENT
Grades: 10-12                      Credit: 1.0
During the course, students will study basic management concepts and leadership styles as they explore business ownership, planning, operations, marketing, finance, economics, communications, the global marketplace, and human relations. Quality concepts, project management, problem solving, and ethical decision making are an integral part of the course. Students will also analyze current market conditions and explore economic issues.

H6021 CADET TEACHING/A+ MENTORING
Grades: 11-12                      Credit: 1.0
This course provides students with an opportunity to earn A+ Mentoring/Tutoring hours and to work with a cooperating teacher at Butler Elementary, Butler Jr High or Butler High. Duties include: evaluation of student performance, tutoring students individually or in small groups. Grades are based on attendance and the evaluation of the cooperating teacher. Cadets are required to keep a daily log of the activities performed and turn the log sheet into the office.

H4511 STUDENT OFFICE ASSISTANT
Grades: 12                          Credit: 1.0
This class is available to mature and motivated seniors. The senior is required to find a supervising teacher at the high school. The senior is required to complete assignments given by the cooperating teacher each day. Office Assistants are called upon to tutor other students. Therefore, they must be highly trustworthy and a good school citizen. The student must have good attendance and a C average. Student is limited to one Cadet Teacher or Office Assistant assignment per semester.

H6031 LIBRARY SCIENCE I – Semester 1
Grades: 11-12                      Credit: 0.5
H6032 LIBRARY SCIENCE II – Semester 2
Grades: 11-12                      Credit: 0.5
Library Science will consist of learning the basics of librarianship with emphasis on cataloging and classification, arrangement, and collection maintenance. Units on periodical databases, public relations, and reference will be covered. The tools of librarianship will be explored.
H8401 FASHION & CLOTHING CONSTRUCTION
Grades: 9-12  Credit: 0.5  
This course prepares students to understand the social, psychological and physiological aspects of clothing and textiles; the nature, acquisition and use of clothing and textile products; the selection and maintenance of clothing and textiles; the effect of consumer choices on the individual and family, as well as the clothing and textile industry.

H8402 HOUSING & INTERIORS
Grades: 9-12  Credit: 0.5  
This semester course is designed to prepare individuals to understand the physical, psychological and social influences pertaining to the complex housing decisions required for creating a desirable living environment. Includes instruction in the human and environmental factors influencing the form and use of housing; the varied types of housing; costs; exterior and interior design; home furnishings and equipment; and the selection, use and care of available resources for achieving improved living space to meet individual and family needs.

H8406 BAKING & FOOD SCIENCE
Grades: 9-12  Credit: 0.5  
This semester course will teach the science of beginning baking techniques. Students will learn the basic methods of preparing breads, desserts, pies, and cookies. This course will enable students to construct meaning related to the biochemistry of foods and nutrition; solve problems related to foods and nutrition through the application of scientific principles; and, assess the impact of food safety and sanitation on the health and well-being of individuals and families.

H8407 WORLD FOODS
Grades: 9-12  Credit: 0.5  
This semester course is the study of foods from around the world. We will be looking at specific regions of the world in regards to how they prepare foods, how culture and climate affect the foods they eat, and how environment affects their choices.

H8409 CULINARY ARTS
Grades: 10-12  Credit: 1.0  
Prerequisite: Baking & Food Science  
Integrate knowledge, skills, and practices required for careers in food production and services. This structured Culinary Arts program develops high-level skills and competencies demanded in the food service industry. This is a sequential program that prepares you for occupations and higher education of study related to culinary arts and the hospitality industry.

H8301 CHILD DEVELOPMENT
Grades: 11-12  Credit: 1.0  
This class provides students an opportunity to learn about the stages of development of children. Pregnancy, pre-natal development and birth are major topics. Students receive practical experience with children through pre-school visits, visits with children to the class, and guest speakers. An instructional program that prepares individuals to understand children's physical, mental, emotional, and social growth and development. This program enables students to construct meaning pertinent to child care, guidance and supervision; interact effectively with children; solve problems based upon children’s health concerns at various developmental stages; assess the impact of quality child care on the child; family and society; and make decisions that support ethics and professionalism in child development careers.

H8408 CAREER & FAMILY LEADERSHIP
Grades: 11  Credit: 1.0  
This course is designed to assist Missouri citizens in preparing for success in family, career and community life. Students will learn to: 1) promote personal growth and leadership development; 2) explore work, jobs and careers related to family and consumer sciences and human services; 3) solve problems impacting the work of the family; and 4) make decisions that support and strengthen the integration of multiple roles/responsibilities of individuals, family, career and community.

H8400 CAREER DEVELOPMENT & ENTREPRENUERSHIP
Grades: 12  Credit: 1.0  
Prerequisite: Career & Family Leadership  
This class provides students an opportunity to work in the community and practice effective communication techniques, develop team building skills, demonstrate responsibility, along with utilizing problem-solving skills. It also allows the student to examine workplace policies, examine work ethics, demonstrate appropriate work attitudes and behaviors, compare the impact of career choices on family life, develop a plan for achieving career goals. Students will learn to: 1) utilize leadership
qualities and skills for problem solving; 2) identify career clusters and careers related to career pathways; 3) assess personal characteristics and professional requirements for occupations; 4) use effective communication techniques for multiple workplace situations; 5) utilize self-assessment tools to determine entrepreneurial traits; 6) describe the importance of ongoing training, professional development and continuing education.

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**ENGINEERING & INDUSTRIAL TECHNOLOGY (Practical Arts)**

**H6019 INTRODUCTION TO ENGINEERING DESIGN**  
Weighted: 1.5  
Grades: 9-10  
Credit: 1.0  
**Prerequisite:** Algebra I or concurrent enrollment in Algebra I  
**College Credit:** Various college credit policies exist through Metropolitan Community College, Missouri S&T, University of Central Missouri, and other out-of-state colleges/universities. 

An introductory course in the Project Lead The Way pathway. Using 3-D computer modeling software, students learn the design process. Students solve design problems as they develop, analyze, and create product models.

**H6024 COMPUTER SCIENCE PRINCIPLES**  
Weighted: 1.5  
Grades: 9-10  
Credit: 1.0  
**College Credit:** Various college credit policies exist through Metropolitan Community College, Missouri S&T, University of Central Missouri, and other out-of-state colleges/universities. 

Students work in teams to develop computational thinking and solve problems. This course does not aim to teach mastery of a single programming language but aims to develop computational thinking. Each unit focuses on one or more computationally intensive career path. Students practice problem solving to open-ended projects that require them to develop planning, documentation, communication and other professional skills.

**H6020 PRINCIPLES OF ENGINEERING**  
Weighted: 1.5  
Grades: 10-11  
Credit: 1.0  
**Prerequisite:** Algebra I and Intro to Engineering Design  
**College Credit:** Various college credit policies exist through Metropolitan Community College, Missouri S&T, University of Central Missouri, and other out-of-state colleges/universities. 

The second course in the Project Lead The Way pathway. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people.

**H6022 ENGINEERING DESIGN & DEVELOPMENT**  
Weighted: 1.5  
Grades: 11-12  
Credit: 1.0  
**Prerequisite:** Intro to Engineering Design and Principles of Engineering  
**College Credit:** Various college credit policies exist through Metropolitan Community College, Missouri S&T, University of Central Missouri, and other out-of-state colleges/universities. 

The knowledge and skills students acquire throughout PLTW come together in this course. Students identify an issue and then research, design and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing EDD ready to take on any post-secondary program or career.

**H6025 CIVIL ENGINEERING & ARCHITECTURE**  
Weighted: 1.5  
Grades: 11-12  
Credit: 1.0  
**Prerequisite:** Intro to Engineering Design  

This course focuses on the design and construction of residential and commercial building projects. The course includes an introduction to: building components and systems, structural design, storm water management, site design, utilities and services, cost estimation, energy efficiency, and careers in the design and construction industry. Through both individual and collaborative team activities students will problem solve as they practice common design and development protocols such as project management and peer review. Students will develop skills in engineering calculations, technical representation, documentation of design solutions according to accepted technical standards, and use of current 3D architectural design and modeling software to represent and communicate solutions. The course requires a rigorous pace, and it is likely to contain more material than can be completed in a school year. Building enthusiasm for and a real understanding of the role, impact, and practice of civil engineering and architecture as it relates to building design and development is a primary goal of the course.
AGRICULTURE & NATURAL RESOURCES (Practical Arts)

Entry Level Agriculture Courses (Practical Arts)

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. Because FFA is an integral part of the agriculture program, all students enrolled in an agriculture course will be expected to become members of and participate in the FFA.

H6150  AG SCIENCE I—Leadership and Animal Technology
Grades: 9-10            Credit: 1.0
A course designed as an introduction to general agriculture. Units of instruction will include animal breeds, animal reproduction, animal nutrition, agribusiness, ag processing and basic metal working. Students will also be introduced to the National FFA Organization, Supervised Agriculture Experience programs, leadership development and over 200 career opportunities.

H6160  AG SCIENCE II—Mechanized Agriculture and Plant Science
Grades: 10-11            Credit: 1.0
Prerequisite: Ag Science I or concurrent enrollment.
A course designed as an introduction to mechanized agricultural technology and plant science and the careers associated with this fields. Units of instruction include: plant growth, plant reproduction, crop science, forestry and horticulture. Additional 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 and project planning. 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.

Advanced Agriculture Courses (Practical Arts)

These specialized courses are for students who have successfully completed or are concurrently enrolled in Agricultural Science I and/or II courses. All advanced courses will include instruction in leadership development and supervised agriculture experience.

H6177  AGRIBUSINESS MANAGEMENT – Semester 1
Grades: 11-12            Weighted: 1.5            Credit: 0.5
Prerequisite: Agriculture Science II or teacher approval
College Credit: State Fair Community College (AGRI 131 Introduction to Agribusiness Systems) may be earned for 3 credit hours
This course combines economic principles of business with sales, management, service skills, time value of money, 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 odd years.

H6186  AG COMMUNICATIONS & LEADERSHIP – Semester 1
Grades: 11-12            Credit: 0.5
Prerequisite: Agriculture Science II or teacher approval.
This is a semester course designed to introduce students to the fundamentals of leadership development. This course is offered in even years.

H6195  AG STRUCTURES – Semester 1
Grades: 11-12            Credit: 0.5
Prerequisite: Agriculture Science II or teacher approval.
This course includes electrical wiring, electrical motors, concrete masonry, plumbing, area surveying, and farm buildings. This course is offered in odd years.

H6196  AG POWER & MECHANIZATION TECHNOLOGY – Semester 2
Grades: 11-12            Credit: 0.5
Prerequisite: Agriculture Science II or teacher approval.
This course develops skills in the theory of operation in maintenance, repair, adjustment, and overhaul of small engines. Second semester will include basic principles of power transmissions, hydraulic systems, as well as gas and diesel engines. Students will be required to complete a lab project. This course is offered in odd years.
H6179  LANDSCAPE DESIGN & TURF MANAGEMENT – Semester 1
Grades: 11-12  Credit: 0.5
Prerequisite: Ag Science I or teacher approval.
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 is also included. A major landscape project is required for this class. Greenhouse lab participation is required. This course is offered in even years.

H6187  GREENHOUSE OPERATIONS – Semester 2
Grades: 11-12  Credit: 0.5
Prerequisite: Agriculture Science 1 or teacher approval.
College Credit: State Fair Community College (AGRI 129 General Horticulture) may be earned for 3 credit hours
This is an advanced class specializing in all aspects of plant production. Units focus on plant biology, soil fertility and management, selecting and identifying crops & seeds, major economic crop production, insects, diseases, irrigation, fertilization, and marketing. Greenhouse Lab participation is required. This course is offered in even years.

H6178  ADVANCED CROP SCIENCE – Semester 1
Grades: 11-12  Credit: 0.5
Prerequisite: Agriculture Science 1 or teacher approval.
The basic principles of plant growth, including human and environmental influences and the theoretical and practical application of agronomic principles to crop production. Includes the historical and economic importance of crop plants for food, feed, and fiber; origin, classification, and geographic distribution of field crops; environmental factors and agronomic problems; crop plant breeding, growth, development, and physiology; cropping systems and practices; seedbed preparation, tillage, and crop establishment; pests and controls; and harvesting, storing, and marketing practices. This course is offered in odd years.

H6189  GREENHOUSE OPERATIONS II – Semester 2
Grades: 11-12  Weighted: 1.5
College Credit: State Fair Community College (AGRI 129 General Horticulture) may be earned for 3 credit hours
This is an advanced class specializing in all aspects of plant production. Units focus on plant biology, soil fertility and management, selecting and identifying crops & seeds, major economic crop production, insects, diseases, irrigation, fertilization, and marketing. Greenhouse Lab participation is required. This course is offered in odd years.

H6183  ADVANCED ANIMAL SCIENCE – Semester 2
Grades: 11-12  Weighted: 1.5
Prerequisite: Agriculture Science II or concurrent enrollment
College Credit: University of Central Missouri (AGRI 1420 Intro to Animal Science) may be earned for 3 credit hours
Intensive study in livestock production, management, marketing, nutrition, breeding, production records, selection, animal health, waste management and conservation practices may be included in this course.

H6194  AG CONSTRUCTION
Grades: 12  Credit: 1.0
Prerequisite: Agriculture Structures and Ag Power or teacher approval.
This course continues the studies of Ag Structures through construction of major metal and wood projects. This course is offered in even years.

H4412  FISH & WILDLIFE
Grades: 11 - 12  Credit: 1.0
Prerequisite: Agriculture Science I & Agriculture Science II
This course serves as preparation for a career or study in the wildlife, ecology and natural resources industries. Students will learn the identification and management of game and non-game wildlife species, fish and their habitats as well as their ecological needs. This course will count as the third science requirement.

PHYSICAL EDUCATION/HEALTH

H5013  HEALTH
Grades: 10  Credit: 0.5
This is a course for students to learn about the fundamentals of good physical health and wellness. This health concept extends to physical, mental, and social health. Key concepts include disease prevention, physical fitness, drug and alcohol awareness, ethical choices, and human development.
H5016  PHYSICAL EDUCATION
Grades:  9-12     Credit:  1.0
This course is designed for students to participate in a variety of organized group and individual game activities. Students will perform exercises and compete in games designed to improve physical fitness.

H5017  ADVANCED FITNESS (WEIGHTS)
Grades:  9-12     Credit:  1.0
This two semester class is a detailed course of activities that will educate a student on fitness of the body and mind. The course will consist of strength training (4 days a week), cardiovascular training (2 days a week), and Speed and Agility drills (2 days a week). Students will also gain an understanding of basic nutrition and anatomy. This is an upper division class for primarily juniors and seniors. This class is intended for students who have excelled in physical education.

CADET TEACHING/A+ Tutoring

H6021  A+ TUTORING/CADET TEACHING
Grades:  11-12     Credit:  1.0
This course provides students the opportunity to participate in tutoring students who need fundamentals of assistance. Students must provide their own transportation to the elementary buildings and be pursuing A+ eligibility. Students who are not meeting the 2.5 GPA requirement or have a poor attendance history will not be allowed to enroll in this course. Duties include evaluation of student performance, teaching students in small group or whole class instruction, and tutoring. Grades are based on attendance and the evaluation of the cooperating teacher. Cadets are required to keep a daily journal of the activities performed.

BEAR TIME

H1512  BEAR TIME
Grades:  9-12     Credit:  0.25
This course is designed so every student will have a mentor teacher. There are activities for each day of the week.

NEVADA REGIONAL TECHNICAL CENTER (NRTC)

General Information:
In addition to Butler High School students, the NRTC enrolls adults and students from other sending high schools. For this reason, some courses have limited enrollment. Students with the best qualifications are enrolled by June. Other students go on a "waiting list" to see if openings will be available in August. When students Interview with an instructor in the spring, it is important that they share all information that could strengthen their requests for the course. All credits earned at NRTC appear on high school permanent records and the transcript.

Several of the courses require special clothing which is furnished by the student. NRTC is an affirmative action school. No person shall, on the basis of race, sex, age, creed, color, or handicap, be subject to discrimination in employment or in admission to any educational program or activity.

Graphic Design/Marketing (Practical Arts)

H6608  MARKETING 101
Grades:  11-12     Credit:  1.0
This course is an introduction to marketing principles and explores concepts that touch your life on a daily basis. Topics covered include general marketing concepts, target markets, planning, research, selling, advertising, and human relations. This class will expose you to basic business and marketing practices and make students savvy consumers.
**H6601  GRAPHIC DESIGN**  
Grades: 11-12  
Credit: 2.0  

**H6611  GRAPHIC DESIGN II**  
Grades: 12  
Credit: 2.0  

**Prerequisite:** Good computer skills, 90% attendance  

**College Credit:** Ozark Tech Community College (Graphic Design 105 – 4 credits)  

Graphic Design I students will learn to use publishing software such as Adobe InDesign, Adobe Illustrator, Adobe Photoshop, Adobe Dreamweaver, and Flexi Sign-Pro. Students will also develop an understanding of the concepts used in design as a communication tool. They must also be able to communicate effectively as writers, listeners, and speakers in social and business settings. Examples of projects may include but not be limited to calendars, magazine layouts, menus, booklets, brochures, T-Shirt designs, digital illustrations, photo manipulation, and creating web pages. Some projects will require cooperative teams. Students will also be required write a research paper on copyright issues. Graphic design is a creative process that combines art and technology to communicate ideas. These students will be designing, developing, and presenting actual jobs to actual clients throughout the year. Printing with a variety of printers (laser, wide format, sublimation, and latex) will be experienced. Students will create effective portfolios electronically and in hard copy for use in presenting themselves at interviews for college admittance and/or for a career/job.

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**Health & Human Services (Practical Arts)**

**H6701  HEALTH SCIENCES**  
Grade: 11-12  
Credit: 3.0  

**Prerequisite:** TB test; good reading, writing, math & communications skills, 90% attendance  

This course is a one-year program and will include communication skills, team playing, professional conduct, problem solving, development of career goals, and successful work ethic necessary to become a successful healthcare worker to include: foundations in Anatomy and Physiology, precautions required for a variety of health occupations: ex. Safety, Asepsis, Vital Signs, First Aid and CPR. During the second semester, students will do on-the-job training 3 days a week at an approved long term care facility. Students will also have the opportunity to shadow a variety of careers in the health care field. Students will become CPR certified and have the option of becoming a member of HOSA (Health Occupation Students of America) which allows you to compete at state/national levels in different health related categories and allows you to participate in activities such as the school blood drive. The focus is on the nurse assistant curriculum. Upon completion of the program, you will be able to take the state test and be licensed in the state of Missouri as a Certified Nurse Assistant.  

**ALL students must submit a valid Social Security card and successfully pass a background check in order to meet the requirements of this program.**

**H6813  EARLY CHILDHOOD CAREERS**  
Grade: 11-12  
Credit: 3.0  

**H6814  EARLY CHILDHOOD CAREERS II**  
Grade: 12  
Credit: 3.0  

**Prerequisite:** TB test, Child Development course in FACS is helpful, 90% attendance  

**Articulated Credit:** Crowder College (ECD 101, ECD 103, ECD 203); Ozark Technical Community College (ECD 101, ECD 160, ECD 170)  

Students looking for a bright future in the Early Childhood field, either in a preschool, home daycare, or as an elementary teacher, should consider this class. Covered topics include: creative experiences for children, child health and safety, CPR and First Aid, nutrition, guiding children, working with parents, professionalism, and the Child Development Associate (CDA) components. Students will participate in a lab (Small World Preschool) working hand-on with children. Students successfully completing the Early Childhood Careers Program may be eligible to take the Child Development Associate (CDA) certification test. This is a nationally recognized early childhood certification.

**H6902  CULINARY ARTS & HOSPITALITY**  
Grade: 11-12  
Credit: 3.0  

**H6911  CULINARY ARTS & HOSPITALITY II**  
Grade: 12  
Credit: 3.0  

**Prerequisite:** Application and interview with instructor, 90% attendance  

**Articulated Credit:** Ozark Technical Community College (HSM 101, HSM 115, CUL 101, CUL 121); ProStart Certification  

Culinary Arts is a two year school-to-career program that provides students with the fundamental skills and knowledge they need for success in the food service industry. Culinary labs, training and experience gained in the student operated Café 27, coupled with the National Restaurant Association’s comprehensive curriculum are the foundation of the program. Units of study include sanitation and kitchen safety, customer service, recipe development, hospitality management, and food production. Students are also provided with training in cash handling, menu design and costing, work ethic, and career development. The ProStart Certificate provides articulation and college credit with all Missouri colleges and universities with a Restaurant/Hospitality Management Program.
H6203  AUTOMOTIVE TECHNOLOGY
Grades:  11-12  Credit:  3.0

H6213  AUTOMOTIVE TECHNOLOGY II
Grades:  12  Credit:  3.0
**Prerequisite:** Application & interview with instructor, strong Algebra, Geometry, critical thinking & writing skills, 90% attendance
This course provides specific instruction in the areas of steering and suspension, brakes, electrical and electronics, and engine performance. Units overlap into all nine ASE certification categories. These include: Engine Repair, Automatic Transmission/Transaxle, Manual Drive Train and Axles, Suspension and Steering, Brakes, Electrical/Electronic Systems, Heating and Air Conditioning, Engine Performance, and Light Vehicle Diesel Engines. Instruction and demonstration will be given and followed by student practice in order to provide a competency-based learning environment.

H6301  CONSTRUCTION TECHNOLOGY I
Grades:  11-12  Credit:  3.0

H6311  CONSTRUCTION TECHNOLOGY II
Grades:  12  Credit:  3.0
**Prerequisite:** Application & interview with the instructor, strong measuring & math skills, 90% attendance
This two-year program is designed to acquaint students with various aspects of residential construction and to prepare students for entry level jobs in the construction trade. The program concentrates on residential construction of a family dwelling and uses this as the primary learning vehicle. The first year students are trained in the fundamentals of construction, use and recognition of hand tools, familiarization with masonry and concrete principles, blueprint reading, construction cost estimation, site work, building permits and codes, framing and roofing, safety procedures, window and door installation, siding and exterior paint. More experienced students concentrate on rough-in electrical work, plumbing, insulation, drywall handing, and finishing, interior painting, ceramic tile, and interior finishing.

H6403  WELDING TECHNOLOGY I
Grades:  11-12  Credit:  3.0

H6404  WELDING TECHNOLOGY II
Grades:  12  Credit:  3.0
**Prerequisite:** Application & interview with the instructor, current vision exam, strong math & writing skills, measurement & critical thinking skills, 90% attendance
**College Credit:** Crowder College
This three-hour block course allows students the opportunity to learn entry-level welding and fabrication skills. Units of study include: Print Reading, Oxy-Fuel and Plasma Arc Cutting, Gas Tungsten Arc, Gas Metal Arc, Flux Cored Arc, Shielded Metal Arc and Plasma Arc Welding. Students may become AWS (American Welding Society) certified and become a member of SkillsUSA.
## BUTLER HIGH SCHOOL COMPREHENSIVE COURSE OFFERINGS

### LANGUAGE ARTS
- H1003 – English I: 1.0
- H1004 – English II: 1.0
- H1005 – English III: 1.0
- H1033 – AP English Lit & Comp: 1.0
- H1006 – English IV: 1.0
- H1027 – College English 101/102: 1.0

### SOCIAL STUDIES
- H3003 – Modern American History: 1.0
- H3030 – World History: 1.0
- H3005 – American Government: 1.0
- H3400 – AP Gov’t & Politics: US: 1.0
- H3210 – Psychology I: 0.5
- H3220 – Psychology II: 0.5
- H3221 – AP Psychology: 1.0
- H3202 – Sociology: 0.5
- H3201 – Sociology II: 0.5

### MATH
- H2102 – Algebra I: 1.0
- H2104 – Geometry: 1.0
- H2200 – Intermediate Math: 1.0
- H2103 – Algebra 2: 1.0
- H2119 – Trigonometry: 0.5
- H2120 – Probability & Statistics: 0.5
- H2111 – College Algebra 1111: 1.0
- H2121 – AP Statistics: 1.0
- H2106 – Calculus: 1.0

### SCIENCE
- H4403 – Physical Science: 1.0
- H4404 – Biology I: 1.0
- H7777 – Principles of Biomedical Science: 1.0
- H4410 – Chemistry I: 1.0
- H4427 – Advanced Biology: 1.0
- H4406 – Ecology: 1.0
- H4412 – Fish & Wildlife: 1.0
- H4426 – AP Biology: 1.0
- H4417 – Advanced Chemistry: 1.0
- H4418 – Physics: 1.0
- H6022 – Principles of Engineering: 1.0

### FOREIGN LANGUAGE
- H1401 – Spanish I: 1.0
- H1402 – Spanish II: 1.0
- H1411 – Spanish III: 1.0
- H1408 – College Spanish 1601/1602: 1.0

### VISUAL ART (FINE ARTS)
- H5091 – Art I: 1.0
- H5092 – Art II: 1.0
- H5093 – Art III: 1.0
- H5094 – Art IV: 1.0

### MUSIC (FINE ARTS)
- H5055 – Beginning Band: 1.0
- H5051 – Marching/Concert Band: 1.0
- H5071 – Mixed Chorus: 1.0
- H5070 – Pop Chorus: 1.0
- H5072 – Music Appreciation: 1.0

### BUSINESS (PRACTICAL ARTS)
- H7101 – Computer Applications: 1.0
- H7121 – Desktop Publishing/Newspaper: 1.0
- H7124 – Multimedia (Teacher Approval): 1.0
- H7201 – Accounting I: 1.0
- H7302 – Personal Finance: 0.5
- H7103 – Business Management: 1.0
- H7211 – Accounting II: 1.0
- H1201 – Publications Yearbook: 1.0
- H6031 – Library Science – SM1: 0.5

### FAMILY & CONSUMER SCIENCES (PRACTICAL ARTS)
- H8401 – Fashion & Clothing Construction: 0.5
- H8402 – Housing & Interiors: 0.5
- H8406 – Food Science SM1: 0.5
- H8407 – World Foods SM2: 0.5
- H8409 – Culinary Arts: 1.0
- H8301 – Child Development: 1.0
- H8408 – Career & Family Leadership: 1.0
- H8400 – Career Development/Entrepreneurship: 1.0

### ENGINEERING & INDUSTRIAL TECH (PRACTICAL ARTS)
- H6019 – Intro to Engineering Design: 1.0
- H6022 – Principles of Engineering: 1.0
- H6024 – Computer Science Principles: 1.0
- H6022 – Engineering Design & Development: 1.0
- H6025 – Civil Engineering & Architecture: 1.0

### AGRICULTURE (PRACTICAL ARTS)
- H6130 – Agriculture Science I: 1.0
- H6160 – Agriculture Science II: 1.0
- H4412 – Fish & Wildlife: 1.0
- H6195 – Ag Structures SM1 (2019): 0.5
- H6196 – Ag Power SM2 (2019): 0.5
- H6188 – Landscape Design SM1 (2020): 0.5
- H6189 – Greenhouse I29 SM2 (2020): 0.5
- H6192 – Adv Crop Science SM1 (2019): 0.5
- H6193 – Greenhouse I29 SM2 (2019): 0.5
- H6177 – Agribus Mngt 131 SM1 (2019): 0.5
- H6198 – Ag Leadership SM1 (2020): 0.5
- H6194 – Ag Construction (2020): 1.0
- H6197 – Adv Animal Science 1420 SM2: 0.5

### PHYSICAL EDUCATION
- H5013 – Health: 0.5
- H5016 – Physical Education: 1.0
- H5017 – Adv Fitness (Weights): 1.0

### NEVADA REGION TECHNICAL CENTER
- H6200 – Vo-Tech Travel: 1.0
- H6608 – Marketing: 1.0
- H6601 – Graphic Design: 2.0
- H6611 – Graphic Design II: 2.0
- H6701 – Health Sciences: 3.0
- H6813 – Early Childhood Careers: 3.0
- H6814 – Early Childhood Careers II: 3.0
- H6902 – Culinary Arts & Hospitality: 3.0
- H6911 – Culinary Arts & Hospitality II: 3.0
- H6203 – Auto Technology I: 3.0
- H6213 – Auto Technology II: 3.0
- H6301 – Construction Technology: 3.0
- H6311 – Construction Technology II: 3.0
- H6403 – Welding Technology: 3.0
- H6404 – Welding Technology II: 3.0

### Bear Time
- H1512 – High School: 0.25