

HICKMAN HIGH SCHOOL



NCA – Advanced Ed Accreditation (2008)
Advanced Placement Designated School – College Board (2007)

Education and Career Planning Guide
“Your Path to the Future”
2010-2011

2009-2010 School Profile

David H. Hickman High School

Home of the Kewpies
Established 1927

1104 N. Providence Road Columbia, Missouri 65203

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United States Department of Education Excellence in Education Award 1984-85 & 1995-96

Missouri Department of Elementary and Secondary Education Gold Star School Award

Accredited by the North Central Association of Secondary Schools and Colleges, 2007-08,

and with distinction by the Missouri Department of Elementary and Secondary Education, 2000 to present

Mike Jeffers, Principal

Susan McWilliams, Guidance Director

Hickman High School is the largest high school in the state of Missouri. It is a culturally diverse school that has won numerous recognitions for its strong academic and co-curricular programs. The school offers traditional, honors, and Advanced Placement courses in the core academic subjects, as well as a wide offering of other classes in 17 departmental areas.

Hickman's faculty of 180 has earned the following degrees:

Bachelor	40
Master	126
Specialist	4
Doctorate:	5
MBA	1
RN	2
CUOT	1

Hickman High School has an enrollment of more than 2,000 students in grades 10-12. The student body represents a broad range of ethnic, racial, religious, and socioeconomic groups. We have students representing nearly 40 countries. The cultural/racial makeup of the school is:

Caucasian	66%
African American	25%
Asian	5%
Hispanic/Latino	4%

Class of 2009

Size: 630

Median GPA: 2.89 Range of GPA: 4.00-0.8252

Hickman High School operates on a 180-day, two-semester calendar. The day is a traditional seven periods with each class being 50 minutes in length.

Minimum Graduation Requirements

Language Arts (3 must be English)	4
World History	1
U.S. History	1
Government	½
Social Studies Elective	½
Mathematics	3
Physical Science	1
Biological Science	1
Additional Science (BS or PS)	1
Health	½
Fine Art	1
Practical Art	1
Personal Finance	½
Physical Education	1
Electives	<u>7</u>
Total Required Credits	24

Suggested Grading Scale*

A	94-100
A-	90-93
B+	87-89
B	83-86
B-	80-82
C+	77-79
C	73-76
C-	70-72
D+	67-69
D	63-66
D-	60-62
F	Below 60

Scale before 2007-08*

A	95-100
A-	92-94
B+	89-91
B	86-88
B-	83-85
C+	80-82
C	77-79
C-	74-79
D+	71-73
D	68-70
D-	65-67
F	Below 65

*All grades are unweighted

Honors, Advanced & Advanced Placement Courses

(Honors and AP courses have open enrollment. Teacher recommendation is encouraged and previous achievement guidelines are provided.)

- Art: AP Art 1 and 2
AP Art History

- English: English 2 Honors
English 3 Honors
AP English: Language & Composition
AP English: Literature & Composition

- Foreign Lang. French 2 Advanced
French 3 Advanced
AP French
AP German
AP Latin Vergil
Spanish 2 Advanced
AP Spanish

- Mathematics: Integrated Math 3 Honors
Integrated Math 4 Honors
Algebra 2 Honors
Pre-Calculus Honors
AP Calculus AB
AP Calculus BC
AP Statistics
AP Computer Science

- Music: AP Music Theory

- Science: Biology Honors
Chemistry Honors
Physics Honors
Human Anatomy & Physiology Honors
AP Biology
AP Chemistry
AP Physics
AP Computer Science

- Social Studies: World History Honors
U.S. History Honors
AP Government
AP European History
AP Psychology
AP U.S. History
AP World History

AP Score Summary

Year	# Candidates	Total Grades	3 or Higher
2005	316	692	82%
2006	298	569	83%
2007	322	566	83%
2008	358	672	83%
2009	312	506	86%

Average ACT Composites

Year	Score	Frequency	Grad Class Size
2004-05	23.5	435	625
2005-06	23.0	399	639
2006-07	23.5	382	563
2007-08	23.1	392	543
2008-09	23.5	428	571

Average SAT I Scores

Year	Critical Reading	Math	Writing	Frequency
2004-05	638	646		59
2005-06	611	616	603	59
2006-07	666	654	649	47
2007-08	602	627	586	50
2008-09	639	644	626	50

National Merit/Achievement Scholarship Semifinalists

2004-05	8	2007-08	8
2005-06	2	2008-09	18
2006-07	13	2009-10	2

Percentage of Students Planning to Enter College

2004	73%	4-year	*2007	56.4%	4-year
2005	72%	4-year		23.3%	2-year
2006	74%	4-year		4.7%	
		Technical			
			*2008	52.3 %	4year
				21.5 %	2-year
				2.7%	
					Technical

**figures reported using a new DESE calculation*

United States Presidential Scholars

17

AP Scholar Recognition 2009

Scholars	42
Scholars with Honor	18
Scholars with Distinction	49
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The Community of Columbia

The city of Columbia has a population of more than 100,000 with the total population of Boone County topping 154,000. The main campus of the University of Missouri is located in Columbia. The city is also home to two private colleges, Columbia College and Stephens College, as well as branch campuses of Moberly Area Community, William Woods, and Central Methodist Colleges.

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GRADUATION REQUIREMENTS

A student's individual academic/career path should be a cooperative plan between the home and school to meet the needs of the student. Students who earn a minimum of twenty-four units of credit according to the following listing are eligible to graduate from Hickman High School.

Class of 2010 and beyond

English (may include 1 credit of language arts elective).....	4 Credits
Mathematics (Algebra 1 or Integrated 1 and beyond).....	3 Credits
Science (1 credit of biological science, 1 credit of physical science, one additional).....	3 Credits
Social Studies.....	
(Must include ½ credit of government, one (1) credit of world history, one (1) credit of U.S. history, one-half (½) credit of additional social studies.....)	3 Credits
Fine Arts.....	1 Credit
Practical Arts (½ credit Personal Finance required and can be used for practical art).....	1 Credit
Physical Education.....	1 Credit
Health.....	1/2 Credit
Electives.....	7 ½ Credits
Total Minimum Requirements.....	24 Credits

- Each student must also satisfy the specific legal requirements for a high school diploma. No more than three and one half (3½) units of credit in a regular school program and ½ unit of credit in an extension or correspondence program shall be scheduled during a semester, unless otherwise approved by the principal.
- **No more than two (2) units of credit earned in correspondence, extension courses, or the Secondary Diploma Program may be applied toward graduation unless approved by principal.** Transfer credit from non-public schools must correspond to courses and requirements acceptable to the Missouri Department of Elementary and Secondary Education and the Columbia Public Schools.
- Graduation requirements must be completed in order for student to participate in commencement exercises.
- Fifth year seniors will follow previous graduation requirements, as listed on page 3.
- Second semester seniors entering Hickman for the first time must be enrolled as a full-time student for one semester in order to be eligible for a Hickman diploma.
- See page 2 for VALEDICTORIAN/SALUTATORIAN criteria.
- In order to be eligible for graduation their senior year, students must have earned a minimum of 16 credits. Students with less than 16 credits will be designated as “juniors” unless otherwise approved by the principal.

GUIDELINE FOR AWARDED CREDIT PRIOR TO 9TH GRADE

Columbia Public Schools will award credit for high school level math and foreign language courses taken prior to 9th grade with the following stipulations:

1. Student must earn a 60% or better in the course in order to receive high school credit.
2. In foreign language, student must complete the entire first level (i.e. 1A and 1B) prior to being awarded 1 credit.
3. Course will be graded on CPS 6-12 grading scale for semester grades and grades will be used in figuring current GPA for honor roll.
4. Credit will be recorded on high school transcript as transfer credit with a grade of P (pass).
5. Valedictorian/salutatorian will be determined based on 9-12 GPA. Grades and credit earned prior to 9th grade will not be considered.

SCHEDULE CHANGES

The course requests you select are for the entire school year. Students must carefully consider and select courses. Students will have the opportunity in May to review and revise course requests. After that time, the master schedule is set and schedule changes will be difficult to make. It is important that you be knowledgeable about graduation requirements so that you can make sure you are enrolling appropriately to progress toward graduation. **Specific teachers, lunch shifts, and periods cannot be requested.** Also, we cannot guarantee that you will get semester classes during the semester you request.

END OF COURSE ASSESSMENTS

Beginning with the 2009-10 school year The Missouri Department of Elementary and Secondary Education (DESE) is implementing End of Course (EOC) assessments, which will replace MAP testing at the 9-12 grade levels. Students enrolled in an English 10, Algebra 1, Integrated Math 1, Biology and/or Government course will take the exams for those courses. The exam score will count as five per cent of the second semester grade for the course.

POST-HIGH SCHOOL EDUCATION

Students planning to attend a college, university, or other post-secondary training program should be aware that most of these have admission standards. Students planning to attend a four (4) -year college or university, either in Missouri or out of state, will normally be expected to complete course requirements that exceed high school graduation requirements. Students **MUST CHECK** with the school or college of their choice for specific admission requirements. The chart on page 3 compares CPS graduation requirements with the admission requirements for MU and selected Missouri four (4)-year public colleges, and the Missouri College Prep Certificate.

NCAA ELIGIBILITY

Students planning to attend college who wish to participate in Division I or Division II sports must be certified by the NCAA Initial-Eligibility Clearinghouse. The Clearinghouse will analyze a student's academic information and determine if a student meets NCAA's initial eligibility requirements. Students who qualify are eligible to practice, compete, and receive athletic scholarships as college freshmen. These requirements may have changed so it is important that students see their counselor and /or coach for details and more specific information.

MISSOURI STATE HIGH SCHOOL ACTIVITIES ASSOCIATION

MHSAA requires that any student participating in sports, music, speech, debate, etc., must be enrolled in a minimum of 3.0 credits during the semester of participation and must have earned 3.0 credits in the preceding semester. Because winter sports/activities take place during first and second semesters, students must earn 3.0 credits both semesters in addition to the previous semester. Coaches and activity sponsors reserve the right to use academic standing in making team selections.

VALEDICTORIAN/SALUTATORIAN STANDARDS FOR EARNING STATUS

The valedictorian and the salutatorian designation will be awarded to the students with the highest and second highest GPA after eight (8) semesters who also meet the following minimum requirements.

1. The student must earn a MINIMUM of five (5) credits in honors or advanced placement courses using the standard grading policy (A, B, C, D, F).
2. The student must meet the course requirements for Missouri College Preparatory Certificate and score above the prior year's national average on the ACT or SAT.
3. Courses taken at a college or university for dual credit in areas of English, math, science, social studies, foreign language, or advanced technical/vocational courses will be considered honors level courses.

GPA will be calculated through three (3) decimal places. A committee of administrators and counselors will review and name the valedictorian(s) and salutatorian from the eligible candidates. Ties will be designated as co-valedictorian(s). When co-valedictorians are named, no salutatorian will be named for that year.

A+ SCHOOLS PROGRAM AND REQUIREMENTS (Contact Mrs. Laurie Hoff at 214-3028 for further information.)

This program is designed to guide students in a rigorous program of academic and technical education that will prepare them for the workplace, post-secondary vocational/technical training, or college.

The A+ Schools Program operates with three (3) clear goals for students:

1. Ensure that all students graduate from high school.
2. Ensure that all students complete a selection of high school studies that are challenging and have identified learning expectations.
3. Ensure that all students proceed from high school graduation to a college, a post-secondary vocational/technical school, the military, or a high wage job with workplace skill development opportunities.


The A+ Schools Program provides students with two (2) years of free tuition to any Missouri community college or vocational/technical college. To be eligible, each student must have entered an agreement with a designated A+ School and have met the following requirements:

- Attend a designated A+ School for three consecutive years prior to graduation
- Have a cumulative high school grade point average of 2.5 or higher on a 4.0 scale
- Have at least a 95% attendance record over four years
- Perform 50 hours of unpaid tutoring or mentoring arranged through the A+ office
- Maintain a record of good citizenship and avoid the unlawful use of drugs and alcohol
- Attend a Missouri community college or post-secondary vocational/technical school on a fulltime basis and maintain a GPA of 2.5 or higher.

SERVICES FOR STUDENTS WITH DISABILITIES

It is the policy of the Board of Education to provide free and appropriate education for students with disabilities, including those who are in need of special education and related services or identified as disabled under Section 504. The district's programs and services available to meet the needs of students with disabilities will be in accordance with applicable federal and state laws for the implementation of Part B of the Individuals with Disabilities Education Act (IDEA) or Section 504. Individualized Educational Plans or 504 Plans are developed to address instruction and course work as appropriate. Individuals with Disabilities Education Act (IDEA) states that students with disabilities must be educated with non-disabled peers "to the maximum extent appropriate." Removal from regular education environments is appropriate only when the nature or severity of the disability is such that education in regular classes with the use of supplementary aids and services cannot be achieved satisfactorily. Schools are required to offer a "continuum of alternative placements" as the legislation recognizes that not all students will be able to be educated in the general education environment (IDEA, 2004).

Admission/Graduation Requirements

	CPS Graduation requirements Class of 2011	Admission requirements for the University of Missouri (UMC, UMR, UMKC, UMSL)	Admission requirements for the Missouri Public 4- year colleges (CMSU, MSU, Truman, SEMO, NWMoState)	College Prep Certificate* <i>(beginning with class of 2012, 95% attendance will be required)</i>
Language Arts	4 (3 must be English, Foreign Language no longer counts as Language Arts)	4	4	4
Math	3	4 (Algebra 1/Integrated 1 and beyond)	3 (Algebra 1/Integrated 1 and beyond)	4 (Algebra 1/Integrated 1 and beyond)
Science	3(1 physical science, 1 biological science)	3 (1 must be a Lab Course)	2 (1 must be a Lab Course)	3 (Not including General Science, 1 must be a Lab Course)
Social Studies	(1 US History, 1 World History, .5 Government, .5 add. Social Studies)	3	3	3
Health	.5			.5
Fine Arts	1	1	1	1
Practical Arts	1 (.5 must be personal finance)			1 (.5 must be personal finance)
PE	1			1
Electives	7.5			7
Foreign Language		2	2 (strongly recommended or required. Check with college.)	
Additional	..		3 additional Core Electives selected from Language Arts, Math, Social Studies, Science, or Foreign Language	3 specified Core Electives selected from Language Arts, Math, Social Studies, Science, Fine Art or Foreign Language
Total	24	17 **Plus: Appropriate Class Rank and ACT/SAT Scores	16 **Plus: Appropriate Class Rank and ACT/SAT Scores	25 **Plus: 3.0 GPA in Core Subjects **Above National Average on ACT or SAT **95% attendance

NOTE Eligibility for a College Preparatory Studies Certificate does not ensure admission to a specific college or university. Students should consider admission requirements specific to the college or university to which they may seek to apply as they select high school courses.

ALTERNATIVE ENROLLMENT OPTIONS

NUMBER OF SEMESTERS REQUIRED

Consistent with the intent of the Missouri State Department of Elementary and Secondary Education regulations pertaining to graduation requirements, a student shall be expected to complete four (4) full years of high school. Some students, however, may complete graduations requirements early, and they may need the challenge of pursuing postsecondary studies. Other students may need more time than the usual four years to complete requirements. The important goal is finishing high school with a quality education, not graduating within a specific number of years.

EARLY GRADUATION: A REQUEST FOR EARLY GRADUATION MUST BE A PLANNED PART OF A STUDENT'S EDUCATIONAL PROGRAM AND MUST BE SUBMITTED PRIOR TO THE FINAL SEMESTER THE STUDENT IS IN FULL-TIME ATTENDANCE. Students approved for early graduation shall be considered graduates as of the date enrollment is terminated. Early graduates receiving diplomas in June may participate in the graduation ceremony at the end of the school year and end-of-the-year senior activities. Students choosing to receive diplomas in January will not participate in ceremonies and end-of-year activities. In addition, they may not be eligible for certain awards or recognitions that require eight (8) semesters of attendance.

KEWPIE ACADEMY/MISSOURI OPTION PROGRAM

Students who cannot meet graduation requirements in order to graduate with their cohort class may apply to participate in the Missouri Option GED Program. In order to be accepted into this program, students must first attain a base score on the TABE test. The program requires students to attend class three periods per day in order to study for the GED exam. Students must also maintain employment throughout the school year. Students who successfully complete this program and pass the GED exam will receive a Columbia Public Schools diploma and are allowed to participate in commencement exercises.

PART TIME (Seniors Only)

The normal course load is 6 or 7 credits. We do not recommend part time status for students planning to enter postsecondary institutions as a full time high school curriculum is important in order to meet prerequisites for further education. Seniors with special circumstances may apply for part time status. Part time will be available only at the beginning of the day unless the student has special permission otherwise. Students requesting a part time schedule must meet the following criteria:

- Senior status with 19 or more credits and GPA or 2.0 or above
- Good citizenship
- Good attendance (maximum of eight days absent per semester)
- Completed application with parent, principal, and counselor signatures must be returned prior to placement

Exceptions must be approved by the principal. Principals reserve the right to revoke this privilege and to place the student in study hall upon violation of the guidelines. Students applying for part time should enroll in a study hall prior to approval.

AUDIT AND REPEAT FOR IMPROVED GRADES

Auditing: Approval must be obtained from the appropriate department chairperson before a student can be assigned to a class for auditing. Applications for auditing are available in the Guidance office.

Repeat for Increased Performance (No Credit): Students with lower than a C- in a course wishing to improve their grade in a course will be allowed to do so under the following guidelines:

1. Approval must be given by the department chair.
2. Both grades will be shown on the transcript with both grades being used for GPA calculation but only one credit given for a specific course.
3. Any student changing his/her mind and wanting to drop the repeated course would have the current withdrawal procedures applied.

A student who has received a C- or better previously may not retake a course under the above guidelines.

1. These students may only repeat a course on a "contractual audit" basis.
2. "Contractual audit" requires that an agreement be signed by all parties involved (student, parent, counselor, department chair, and teacher). This agreement must specify that to remain in the class the student will demonstrate and maintain achievement greater than or equivalent to previous attempts in the course.

COURSE WITHDRAWAL

1. Students may withdraw from a course after the second week and up to one week following the first IPR of the first and second semesters without the course appearing on the transcript. Students will be assigned to a study hall.
2. Students withdrawing from a course after the deadline of the first or second semester will be assigned to either a study hall or be placed on part-time status (seniors only). A notation of "WF" for withdraw/fail will be recorded on the transcript.
3. Parent permission must be obtained before a student may request to withdraw from any course. In unusual situations (such as a prolonged illness), a waiver of the "WF" notation may be considered by the assistant principal, department chair, teacher, and counselor.

COURSE WORK FOR ADVANCED COLLEGE STANDING

Hickman High School offers a variety of opportunities for students to earn advanced standing and/or college credit for work done at the high school level. These opportunities are described below:

Advanced Placement: AP courses provide students the opportunity to take college-level coursework while still in high school. The course content is determined and monitored by The College Board. Please see www.collegeboard.com for more information. Depending on a student's score on an AP Exam, all of which are administered in May, college credit may be granted. Each college or university has a different credit policy. Contact the individual college/university to verify its credit policy, or search on: collegesearch.collegeboard.com/apcreditpolicy/index.jsp. Once enrolled in an AP course, students register for the AP exam(s) that they would like to take in February. At this time, \$15 is due. On the exam day, the remaining fee is due. Scores are mailed to students in July. Benefits of AP (Source: www.collegeboard.com) include developing skills and study habits vital to college, improving admission eligibility, saving money, getting a head start for college, becoming eligible for scholar awards, improving writing skills and sharpening problem-solving techniques, emphasizing commitment to academic excellence, studying subjects in greater depth and detail and assuming the responsibility of reasoning, analyzing and understanding.

AP courses offered for Hickman students:

ART	COMPUTER SCIENCE	ENGLISH	FOREIGN LANGUAGE	HISTORY/ SOCIAL STUDIES	MATH	MUSIC	SCIENCE
Studio Art	Computer Science	English Literature and Composition	French	European History	Calculus AB	Music Theory	Biology
Art History		English Language and Composition	German	US History	Calculus BC		Physics B Physics C
			Latin	Psychology	Statistics		Chemistry
			Spanish	Government			
				World History			

College Level Examination Program (CLEP): Over 2,800 colleges and universities grant credit and/or advanced placement for CLEP exams. CLEP exams are offered in areas not covered by AP and no formal classroom instruction is required. Students must check with the college or university in which they are interested for specific credit by examination policies. CLEP tests are given monthly at MU. See your counselor for further information.

Dual Enrollment: Students may attend any of the local colleges while in high school. Students typically do this in their senior year. All courses taken at the college level earn college credit. Students are responsible for appropriate fees. Students may apply to earn high school credit for college work. See your counselor for further information.

Career Center Courses: Opportunities may exist for students with a "B" or better average in selected Career Center courses to earn credit and/or advanced standing at a variety of technical schools, community colleges and four-year institutions, including Linn State Technical College, University of Central Missouri, Central Methodist University, Indian Hills Community College, State Fair Community College, and Moberly Area Community College. Courses with articulation or dual credit opportunities include Child Care, Automotive Technology, Software I, Webmasters, Computer Programming, Computerized Accounting, Network Administration, Construction Technology, Business Management, Culinary Arts, and Electronics. The Career Center will work with students on an individual basis to assist in determining eligibility.

INDEPENDENT STUDY

Independent study may be available in most departmental areas to students (other than first semester sophomores) who have a special interest, motivation, and ability to work on their own. Independent study is not generally available for courses that are offered during the school day at Hickman High School.

The following procedure is to be closely observed by students interested in being considered for independent study:

1. The student contacts his/her counselor. If the counselor is in agreement with the student's request to do independent study, the counselor will provide appropriate forms.
2. If a qualified teacher is found, then the student and the teacher will cooperatively develop a plan of study by filling in the application form. The plan will then be presented to the department chairperson or coordinator for approval.
3. If the plan is approved by the department chairperson or coordinator, it is then to be submitted to the assistant principal for final consideration.
4. Independent study plans will be developed for ½ unit of credit and are to be completed during one (1) full semester.
5. All independent study is graded on a pass-fail basis.
6. Students must enroll in an independent study period with the teacher
7. Students wishing to apply for independent study with a Career Center teacher must complete and return an application through the Career Center guidance office.

ONLINE CREDIT

Students may have the opportunity to earn credit through approved online courses, students should work with their guidance counselor to explore these options.



ENROLLMENT INFORMATION

Career Paths

A Way to Look at Course Selection and Career Planning

1. Arts and Communication
2. Business, Management, and Technology
3. Health Services
4. Human Services
5. Industrial and Engineering Technology
6. Natural Resource Systems

Career Paths should be seen as a method for gaining focus and as a guide to the future. Follow the steps below for completing your plan of study.

- a. Read the information about career paths.
- b. Study the six (6) career paths.
- c. Select the career path that seems to be a good fit for you at the present time.
- d. Study the information on graduation requirements, post high-school options, training requirements, and the other information regarding your high school program.
- e. Identify courses that tie into your career path and post-high school educational plans. Courses in the guide have been identified along career paths.
- f. Complete the Course Planning Worksheet on page 10.
- g. Finalize your pre-enrollment by completing the pre-enrollment form and obtaining a parent/guardian signature.

WHAT ARE CAREER PATHS?

Career paths are clusters of occupations/careers that are combined together because many of the people in them share similar interests and strengths. It is important for the student to note that there are a variety of occupations in each path that require different levels of education and training. Selecting a career path provides the student with an area of **FOCUS** along with **FLEXIBILITY** and a **VARIETY** of ideas to pursue.

HOW CAN CAREER PATHS HELP A STUDENT?

Deciding on a career path can help the student prepare for his/her future. The intent is not for the student to decide on a specific occupation for the rest of his/her life, but to select a career path in which the student wants to begin directing his/her energies. It can help the student in selecting courses in school, school activities, and part-time employment.

When deciding on a career, the student should always begin by thinking about himself/herself--what does the student like to do, what comes easily, what is the student good at, and which courses does the student really enjoy? As the student becomes familiar with career paths and when the student selects one which he/she would like to try, the student should think about which courses can best help him/her prepare for occupations within that path. Remember, courses that the student enjoys can be helpful in selecting a career path.

WHAT IF THE STUDENT CHANGES HIS/HER MIND?

A career path is not a permanent commitment. As a student matures and has new experiences, he/she will learn new things about himself/herself, and may change career paths. If a student decides on a new path, the student should discuss it with his/her counselor and adjust future course selections in accordance with the new career direction.

HOW CAN A PARENT HELP?

Career paths give the parent a focus upon which to discuss career opportunities with his/her student. Concentrating on selecting a career path can enable a student to make an initial career decision. The idea of selecting a career for the rest of life can be overwhelming. If that decision does not turn out to be a good one, the student may not know what other career options there are. When a student makes a career path decision, the student knows that there are many similar choices, and if one doesn't end up being the right one there are a variety of related careers to consider. The parent can help his/her student by

1. Discussing the student's interests, abilities, and talents.
2. Sharing information with the student about careers and the parent's work experiences.
3. Arranging for the student to talk with people the parent knows about careers that are of interest to the student.

CAREER PATH OPTIONS

The following are examples of career options under the six major Career Paths. The first column, Entry Level, lists careers that do not require post secondary education. The second column, Skilled Level, lists careers that may require one or more years of postsecondary education. The third column, Professional Level, lists careers that require a minimum of four years of college. The recommended electives listed in each column will give you an idea of high school courses that will help you prepare for these career options. Please see information on previous pages regarding course requirements for high school graduation and for a college preparatory plan.

Career Path: Fine Arts & Communication

Career Options: Music, Visual Art, Theatre, Dance, Foreign Language and Literary Arts

ENTRY	SKILLED	PROFESSIONAL
Examples:	Examples:	Examples:
Metal Art Workers	Sound Mixer	Art Educator
Video Sound Technician	Assistant Recording Engineer	Illustrator
Film Clerk	Graphic Designer	Photographer
Stagehand Stage Property Crew	Computer Effects	Computer Artist
Sales	Designer Video Producer	Editor
Costume Assistant	Dancer	Choreographer
Floral Shop Worker	Reporter	Publisher
		Advertising Executive
		Video Game Designer
		Interior Designer
		Actor
		Set Designer
Recommended Electives +	Recommended Electives +	Recommended Electives
Floral and Plant Design	Web Design and Interactive Media	Sports & Entertainment Marketing
MS Office	Web Scripting and Databased Management	Any music course
Digital Media	Digital Video & Motion Graphics	Any art course
Computer Aided Design	3D Modeling & Animation	Acting/Musical Productions
Graphic Design & Desktop Publishing	Leadership in Media Technology	Humanities
Theatre Technology	Marketing	Public Speaking/Oral Interpretation
Clothing courses	Business Management & Ownership	Journalism
Art 1: Foundations	Film Studies	Write to Publish
Broadcast Journalism		Interior Design
		Classical Ideas
		Yearbook

Career Path: Business, Management & Technology

Career Options: Business Management & Technology, Accounting, and Office Technology

ENTRY LEVEL	SKILLED LEVEL	PROFESSIONAL LEVEL
Examples:	Examples:	Examples:
Help Desk Consultant	Data Control Clerk	Accountant
Payroll Clerk	Legal Secretary	Financial Consultant
Data Entry Clerk	Medical Secretary	Stock Broker
Bank Teller	Administrative Assistant	Hotel General Manager
Front Desk Clerk	Sales & Marketing	Retail Manager
Sales Associate	Accounting Clerk	Marketing Director
Receptionist	Real Estate Sales	Computer Programmer
	Floral Shop Owner	Hospital Administrator
Recommended Electives +	Recommended Electives +	Recommended Electives
MS Office	Marketing	Advertising & Promotion
C.O.E.	Sports & Entertainment Marketing	Business Management & Ownership
C.O.E. Internship	Graphic Design & Desktop Publishing	Python Programming
Digital Media	Leadership in Media Technology	C++ & Advanced Programming
Personal Finance	Web Scripting and Database Management	Accelerated C++ Programming
	Floral Retail Management	Advanced Programming Projects
	Professions in Healthcare	AP Computer Science
	Accounting	Agribusiness
	Personal and Business Law	International Business
	Public Speaking	

Career Path: Health Service

Career Options: Diagnostic Services, Health Information Services, and Therapeutic Services

ENTRY LEVEL	SKILLED LEVEL	PROFESSIONAL LEVEL
Examples:	Examples:	Examples:
Cardiac Monitor Technician	Dental Lab Technician	Veterinarian
Admissions Clerk	Medical Records Technician	Radiologist
Ultrasound Technician	Licensed Professional Nurse	Nuclear Medicine Technician
Phlebotomist	Biomedical Technician	Computer Tomography
Dental Aide	Emergency Medical Technician	Medical Research Analyst
Nursing Assistant	Veterinarian Technician	Health Information Manager
Patient Information Coordinator	Physical Therapy Assistant	Dentist
	Surgical Assistant	Pharmacist
	Medical Coder	Audiologist
		Nurse Practitioner
		Optician
		Physical Therapist
		Dental Hygienist
		Radiation Therapist
		Physician
Recommended Electives +	Recommended Electives +	Recommended Electives
Introduction to Healthcare Professions	Laboratory Foundations	Advanced Animal Science
Introduction to Healthcare Professions - Honors	21 st Century Life Sciences	Genetics
Professions in Healthcare	Animal and Veterinary Sciences	Advanced Chemistry
Professions in Healthcare - Honors	Photonics	AP Biology
MS Office	Anatomy/Physiology	Sports Medicine
Digital Media	Sociology/Psychology	Exercise Physiology
Laser Technology	Public Speaking	Debate
Laboratory Exploration 101		

Career Path: Human Services

Career Options: Personal and Family Services, Public Safety/Legal Services, Social Services and Education, and Culinary and Hotel/Restaurant Management

ENTRY LEVEL	SKILLED LEVEL	PROFESSIONAL LEVEL
Examples:	Examples:	Examples:
Child Care	Child Care	Child Care
Personal Care Attendant	Personal Care Services	Psychologist
Personal Shopper	Customer Relations	Criminal Justice
Teacher Aide	Apartment Manager	Attorney
Assistant House Cleaner	Property Manager	Primary, Middle, Secondary Education
Stock Clerk	Legal Assistant Services	Guidance & Counseling-Education
Fast Food Worker	Bakery & Pastry Chef	Specialty Chef
Restaurant Waitperson	Line Cook	Hotel / Restaurant Manager
Recommended Electives +	Recommended Electives +	Recommended Electives
Child Development	Professions in Healthcare	Advertising & Promotion
Culinary Arts	Early Childhood Careers	Business Management & Ownership
Intro to Teaching Professions	Baking & Pastry Arts	Debate
MS Office	Graphic Design & Desktop Publishing	AP Government
Digital Media	Web Design and Interactive Media	AP Psychology
Teen/Social Issues	Marketing	Classical Ideas
Personal and Business Law	Public Speaking	Foundations of Teaching & Instruction
Creative Cuisine	Sociology/Psychology	Teaching Professions Internship
Intro to Healthcare Professions		Core Essentials of Fire Fighting/Public Safety

The “+” signifies the Recommended Electives in the previous column also apply to the next column. For example, column 2 Recommended Electives would include electives listed in column 1; column 3 Recommended Electives would also include the Recommended Electives listed in column 1 and 2.

Career Path: Industrial/Engineering Technology

Career Options: Construction, Automotive, Engineering, Electronics, Photonics, and Computer technician/Networking

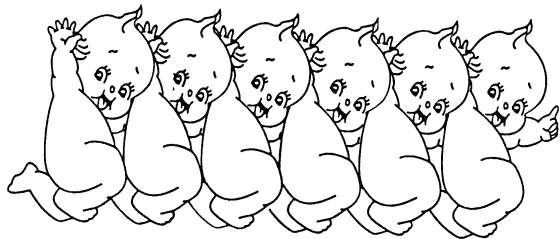
ENTRY LEVEL	SKILLED LEVEL	PROFESSIONAL LEVEL
Fork Lift Operator	Computer Technician	Mechanical Engineer
Sheet Metal Worker	Welder	Network Administrator
Medical Equipment Repair	Civil Engineer Technician	Welding Engineer
Welder	General Contractor	Civil Engineer
Machine Tool Operator	Drafter	Architect
Electrical Installer	Hologram Designer	Landscape Architect
Carpenter	Journeyman Electrician	Surveyor
Apprentice Electrician	Machine Tool Operator	Auto Design Engineer
Automotive/Diesel Maintenance	Biomedical Equipment Technician	Airplane Pilot
Motorcycle Repair	Computer Support Specialist	Electrical Engineer
Parts Sales Person	Security System Designer	Optical Engineer
Heavy Equipment Operator		Astronomer
Roofer		CAD Specialist
Theatre Set Construction		
Recommended Electives +	Recommended Electives +	Recommended Electives
Automotive and Transportation Essentials	Networking Exploration	C++ Programming
Commercial & Residential Wiring	A+ IT Essentials	Python Programming
Certified Welding	Laser Technology	AP Computer Science
Welding & Agriculture	Photonics	Landscape Design
Advanced Welding & Project Fabrication	Robotics	Landscaping & Turf Mgt
Small Engine Technology	Interior Design	Greenhouse Production
Consumer Car Care	Civil Engineering and Architecture	Principles of Engineering
Computer Aided Design	Pro-Audio	Civil Engineering and Architecture 2
Electronics	Automotive Technology	Physics
Electronic Essentials	Smarthouse-Smartgrid	Advanced Chemistry
Digital Media	Geospatial Technology	Geospatial Analysis
MS Office		
Interior Design		
Theatre Technology		
Intro. To Construction Industry		
Construction Technology		

Career Path: Natural Resources

Career Options: Agriculture and Animal Science

ENTRY LEVEL	SKILLED LEVEL	PROFESSIONAL LEVEL
Pesticide Applicator	Environmental Technician	Microbiologist
Tree Trimmer	Land Surveyor	Wildlife Biologist
Landfill Worker	Forest Manager	Environmental Scientist
Tree Farmer	Log Grader	Resource Economist
Fish Farmer	Greenhouse Production Owner	Conservation Agent
Logger	Soil Technician	Soil Scientist
Farm Implement Repairer	Landscaper	Food Scientist
		Landscape Architect
Recommended Electives +	Recommended Electives +	Recommended Electives
Horticulture	Landscaping & Turf Mgt	Animal & Veterinary Science
Small Engine Technology	Greenhouse Production	Advanced Animal Science
MS Office	Landscape Design	Laboratory Foundations
Digital Media	Laboratory Foundations	21 st Century Life Sciences
Landscaping & Turf Mgt	Environmental Science	Computer Aided Design
Wildlife, Conservation & Forestry	Urban Conservation Issues	Architectural Design
Agribusiness	Geospatial Technology	Aerospace
Welding Technology & Agriculture Mechanics	21 st Century Life Sciences	Urban Conservation Issues
Adv Welding & Project Fabrication	Civil Engineering and Architecture	
Laboratory Exploration 101		

NOTES



Course Planning Worksheet

24 credits total needed to graduate

LANGUAGE ARTS - 4 credits (*English - 3 credits, Language Arts Elective -1 credit*)

9th: _____
10th: _____
11th: _____

MATH - 3 credits

9th: _____
10th: _____
11th: _____

ELECTIVES - 7½ credits

SCIENCE -3 credits

9th: _____
10th: _____
11th: _____

SOCIAL STUDIES - 3 credits (*World History 1 credit, US History – 1 credit, Government - ½ credit, Social Studies ½ credit*)

9th: _____
10th: _____
11th: _____

FINE ARTS - 1 credit

PRACTICAL ARTS - 1 credit

Personal Finance (required) – ½ credit

PE - 1 credit

9th: _____

HEALTH - ½ credit

2010-11 Hickman High School Enrollment Information

*Please refer to your Education and Career Planning Guide
as well as the following before developing your schedule.*

1. This schedule is for the entire school year. Students must carefully consider and select courses as **schedule changes are difficult to make**. It is important that you be knowledgeable about graduation requirements so that you can make sure you are enrolling appropriately to progress toward graduation. Graduation requirements are found on page three of your Education and Career Planning Guide. An **enrollment planning worksheet** is located on page 10. You can use this to determine what requirements you must still meet for graduation.
2. ***SPECIFIC TEACHERS, LUNCH SHIFTS, AND PERIODS CANNOT BE REQUESTED. ALSO, WE CANNOT GUARANTEE THAT YOU WILL GET SEMESTER CLASSES DURING THE SEMESTER YOU REQUEST.***
3. The normal course load is 6-7 credits. We do not recommend part time status for students planning to enter postsecondary institutions as a full time high school curriculum is important in order to meet prerequisites for further education. Seniors with special circumstances may apply for part time or release time status.
4. College Prep students are strongly encouraged to take English, math, science and social studies each year they are in high school. Foreign language is also encouraged.
5. Students interested in playing college level sports in NCAA divisions must meet certain eligibility requirements. Check with the guidance office and www.ncaaclearinghouse.net for additional information. Students must be enrolled in a minimum of six credits in order to be eligible for participation in any extracurricular activity sponsored by the Missouri State High School Activities Association (sports, music, speech, debate, etc). Information is available in the guidance office.
6. Current teacher signatures are required on **all** math courses, **all** foreign language and **all** honors and AP courses. Students not recommended for a course must meet with the department chairman to appeal a recommendation.
7. Courses with no prerequisite do not require a signature.
8. ***It is very important that students provide us with course alternates in case a class they request does not make. A class does not make if there are not enough students requesting the class or if we do not have the staff to teach the class. By providing us with alternate requests, the student has input as to what will replace a class that does not make.***
9. **Parent/guardian and student signatures are required on the enrollment form. Your signature signifies that you have reviewed all enrollment materials.**

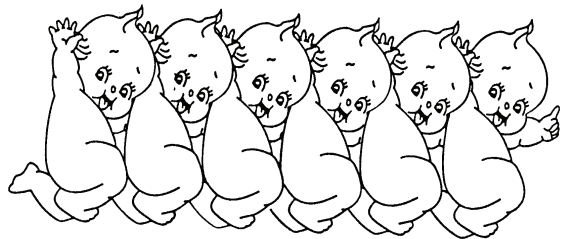
You and your parents are invited to attend the

Hickman High School Curriculum Fair

Wednesday, February 10, 2010
5-7 p.m.

This is an open house designed to give you and your parents the opportunity to visit with Hickman faculty about programs and curriculum offerings and to obtain assistance in finalizing your schedule.

NOTES



COURSE OFFERINGS AND CAREER PATHS

Career Path internships are available for all career paths

AGRICULTURE (Practical Art Credits)

Career Paths: Natural Resource Systems Pages 16-18

9005PA Floral and Plant Design	Credit 1
9006PA Floral Retail Management	Credit 1
9007PA Agribusiness	Credit 1
9009PA Horticulture	Credit 1
9010PA Landscaping and Turf Management	Credit 1
9011PA Landscape Design	Credit 1
9018PA Greenhouse Production	Credit 1
9010PA Greenhouse Operations and Management	Credit 1
9021PA Wildlife, Conservation, and Forestry	Credit 1
9022PA Urban Conservation Issues	Credit 1
9030PA Introductory Small Gas Engines	Credit ½
9031PA Small Engine Technology	Credit 1
9040PA Introductory Welding and Agriculture Mechanics	Credit ½
9041PA Welding Technology and Agriculture Mechanics	Credit 1
9042PA Advanced Welding and Project Fabrication	Credit 2
9060PA Animal and Veterinary Science	Credit 1
9061PA Advanced Animal Science	Credit 2

BUSINESS, MARKETING AND COMPUTER EDUCATION

(Practical Art Credits)

Career Path: Business, Management & Technology

Pages 19-23	
7105PA Keyboarding	Credit ½
7210PA MS Office 1	Credit ½
7215PA MS Office 2	Credit ½
7220PA Accounting 1	Credit 1
7240PF Personal Finance	Credit ½
7260PA Personal and Business Law	Credit 1
7270PA International Business	Credit ½
9130PA Digital Media	Credit 1
9134PA Graphic Design and Desktop Publishing	Credit 1
9138PA Digital Video and Motion Graphics	Credit 1
9140PA Web Design and Interactive Media	Credit 1
9142PA Web Scripting and Database Management	Credit 1
9144PA Leadership in Media Technology	Credit 1
9145PA Broadcast Journalism 1	Credit 1
9146PA Broadcast Journalism 2	Credit 1
9147PA Broadcast Journalism 3	Credit 1
9148PA Broadcast Journalism Internship	Credit 1
9160PA Python Programming	Credit 1
9161PA C++ Programming	Credit 1
9162PA Advanced C++ Programming	Credit 1
9163PA Advanced Programming Projects	Credit 1
9164PA Accelerated C++ Programming	Credit 2
9165PA AP Computer Science	Credit 1
9800PA A+ IT Essentials	Credit 1
9811PA Networking Exploration	Credit 2
9812PA Advanced Networking	Credit 2
9301PA Marketing	Credit 1
9304PA Sports and Entertainment Marketing	Credit 1
9305PA Advertising and Promotion	Credit 1
9307PA Business Management and Ownership	Credit 1
9321PA (COE) Cooperative Occupational Education 1	Credit 1
9322PA (COE) Cooperative Occupational Education 2	Credit 1
9331PA COE Internship	Credit 1

EEE Page 24

1350NC EEE Resource	No Credit
1360EL Advanced Investigations	Credit 1
1365EL Advanced Seminars	Credit 1

ENGLISH LANGUAGE LEARNERS Pages 24-25

1228EL ELL Immersion Center Block 10-12	Credit 4
1230EL ELL Resource 10-12	Credit 1
1237LA ELL 2 Block 10-12	Credit 2
1238LA ELL Literacy 10-12	Credit 1
1240EN ELL 3 English 10/World Literature 10-12	Credit 1
1242WH ELL 3 World History 10-12	Credit 1
1248US ELL 3 US History 11-12	Credit 1
1244BS ELL 3 Biology 10-12	Credit 1
1250MA ELL 3 Algebra 1 10-12	Credit 1
1251MA ELL 3 Geometry 10-12	Credit 1

ENGINEERING AND INDUSTRIAL TECHNOLOGY

(Practical Art Credits)

Career Path: Industrial and Engineering Technology Pages 26-29

9400PA Automotive and Transportation Essentials	Credit 1
9401PA Automotive Technology 1	Credit 3
9402PA Automotive Technology 2	Credit 3
9451PA Certified Welding 1	Credit 2
9452PA Certified Welding 2	Credit 2
9500PA Introduction to the Construction Industry	Credit 1
9455PA Iron Art and Design	Credit 1
9501PA Construction Technology 1	Credit 3
9502PA Construction Technology 2	Credit 3
9551PA Commercial and Residential Wiring 1	Credit 3
9552PA Commercial and Residential Wiring 2	Credit 3
9601PA Computer-Aided Design 1	Credit 2
9602PA Computer-Aided Design 2	Credit 2
9606PA 3D Modeling and Animation	Credit 2
9610PA Civil Engineering and Architecture	Credit 2
9611PA Civil Engineering and Architecture 2	Credit 2
9621PA Geospatial Technology	Credit 1
9622PA Geospatial Analysis	Credit 1
9700PA Laser Technology	Credit 1
9701PA Photonics 1	Credit 2
9702PA Photonics 2	Credit 2
9750PA Electronic Essentials	Credit 1
9751PA Electronics 1	Credit 2
9752PA Electronics 2	Credit 2
9753PA Electronics 3	Credit 2
9755PA Pro-Audio	Credit 1
9756PA Robotics	Credit 1
9757PA Smarthouse-Smartgrid	Credit 1

FAMILY AND CONSUMER SCIENCES

(Practical Art Credits)

Career Path: Human Services Pages 30-31

7500PA Child Development/Lab	Credit 1
7505PA Parenting	Credit ½
7520PA Teen and Social Issues	Credit ½
7535PA1 Creative Cuisine 1	Credit ½
7537PA2 Creative Cuisine 2	Credit ½
7540PA Fashion, Fabric, and Construction 1	Credit 1
7545PA Fashion, Fabric, and Construction 2	Credit 1
7560PA Apparel Merchandising	Credit ½
7565PA Interior Design 1	Credit ½
7570PA Interior Design 2	Credit ½
7599PA Independent Study FACS	Credit ½
9211PA Early Childhood Careers	Credit 1

9215PA Introduction to Teaching Professions	Credit 1
9216PA Foundations of Teaching and Instruction	Credit 1
9217PA Teaching Professions Internship	Credit 2
9260PA Core Essentials of Fire Fighting and Public Safety	Credit 1
9951PA Culinary Arts 1	Credit 2
9952PA Culinary Arts 2	Credit 3
9953PA Baking and Pastry Arts	Credit 2

FINE ARTS (Fine Art Credits)

Career Path: Arts and Communication Pages 32-34

ART	
8115FA Art Basics	Credit 1
8114FA Art 1: Foundations	Credit 1
8133FA Art 2: Studio Art	Credit 1
8128FA Art 2: 3D Design - Ceramics, Sculpture, and Mixed Media	Credit 1
8132FA Graphic Design	Credit 1
8119FA Photography 1	Credit 1
8120FA Photography 2 – Advanced Exploration	Credit 1
8135FA Advanced Placement Studio Art 1	Credit 1
8136FA Advanced Placement Studio Art 2	Credit 1
8140FA Advanced Placement Art History	Credit 1

HUMANITIES

8580FA Humanities	Credit 1
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MUSIC

8339FA Band	Credit 1
8430FA Choir	Credit 1
8511FA Music Theory 1	Credit 1
8513FA Advanced Placement Music Theory	Credit 1
8450FA Musical Productions 1	Credit 1
8451FA Musical Productions 2	Credit 1
8452FA Musical Productions 3	Credit 1
8514FA Introduction to Music	Credit 1

THEATER/FILM

8216FA Acting 1	Credit 1
8217FA Acting 2/3	Credit 1
8252FA Film Study	Credit 1
8218FA Directing Practicum	Credit ½

FOREIGN LANGUAGE (Language Art Credits)

Career Paths: Arts & Communication and Human Services Page 35-37

3020FL French 1	Credit 1
3030FL French 2	Credit 1
3035FL French 2 Advanced	Credit 1
3040FL French 3	Credit 1
3045FL French 3 Advanced	Credit 1
3060FL French 4/5: Survey of Civilization	Credit 1
3070FL French 4/5: Topics	Credit 1
3050FL French 4/5: Advanced Reading and Expression	Credit 1
3080FL Advanced Placement French	Credit 1
3100FL German 1	Credit 1
3110FL German 2	Credit 1
3120FL German 3	Credit 1
3130FL German 4	Credit 1
3140FL Advanced Placement German	Credit 1
3200FL Japanese 1	Credit 1
3210FL Japanese 2	Credit 1
3220FL Japanese 3	Credit 1
3230FL Japanese 4	Credit 1
3400FL Latin 1	Credit 1
3410FL Latin 2	Credit 1
3420FL Latin 3: Prose	Credit 1
3430FL Latin 4: Poetry	Credit 1
3440FL Latin 5	Credit 1
3450FL Advanced Placement Vergil	Credit 1
3530FL Spanish 1	Credit 1
3535FL Spanish 2	Credit 1
3550FL Spanish 3	Credit 1
3560FL Spanish 4	Credit 1
3570FL Spanish 4 Honors	Credit 1
3580FL Advanced Placement Spanish	Credit 1

3099FL Independent Study in French	Credit 1
3199FL Independent Study in German	Credit 1
3599FL Independent Study in Spanish	Credit 1
3499FL Independent Study in Latin	Credit 1
3299FL Independent Study in Japanese	Credit 1

HEALTH PROFESSIONS (Practical Art Credits)

Career Path: Human Services Pages 38-39

9230PA Introduction to Healthcare Professions	Credit 1
9231PA Introduction to Healthcare Professions - H	Credit 1
9235PA Professions in Healthcare	Credit 3
9236PA Professions in Healthcare – Honors	Credit 3
9251PA Laboratory Exploration 101	Credit 1
9252PA Laboratory Foundations MI	Credit 1
9253PA Laboratory Foundations PE	Credit 1
9258PA 21 st Century Life Sciences DRIE	Credit 1
9259PA 21 st Century Life Sciences MPA	Credit 1

LANGUAGE ARTS

Career Path: Arts & Communication and Human Services Pages 40-43

English Credits

2300EN English 10: Narrative Literature and Writing	Credit 1
0520NC English 10: World Studies: Connections	Credit 2
1202EN English 10: World Literature and Writing (Honors)	Credit 1
0527NC Advanced Placement World /World History Literature (Honors)	Credit 2
2600LA Journalism	Credit 1
2401EN English 11: American Literature and Writing	Credit 1
0530NC English 2: US Studies/2 Hour Block	Credit 2
2405EL English 3: American Literature and Writing Lab	Credit 1
2403EN English 3: Advanced Placement Language and Composition (Honors)	Credit 1
0540NC Advanced Placement US History/English 3: Advanced Placement Language and Composition (Honors)	Credit 2
2450LA Write to Publish	Credit 1
2500EN English 4: Career Communications	Credit 1
2499EN English 4: College Composition	Credit 1
2502EN English 4: British Literature	Credit 1
2504EN English 4: Advanced Placement Literature and Composition (Honors)	Credit 1
2503EN Independent Study in English	Credit ½
2510EN English 12 4 CACC: College Composition	Credit 1

Language Arts Credit

2350LA Literacy Seminar	Credit 1
0529NC Literacy Block	Credit 2
2704LA Oral Interpretation	Credit 1
2703LA Public Speaking	Credit 1
2705LA Debate 1	Credit 1
2706LA Debate 2 and 3	Credit 1
2601LA Journalism Editors Seminar	Credit 1
2454LA Classical Ideas and World Religions	Credit 1
Language Arts or Practical Arts Credit	
2603LA Newspaper Production	Credit 1
2602LA Yearbook Production	Credit 1
3660LA Classical Roots	Credit ½
3610LA Intro to Classical Mythology	Credit ½

MATHEMATICS

Career Path: Business, Management & Technology, Health Services, Industrial and Engineering Technology, and Natural Resource Systems Pages 44-46

5617MA Algebra 1	Credit 1
5520MA Integrated Math 1	Credit 1
5651MA Geometry	Credit 1
5645MA Geometry Lab	Credit 1
5655MA Integrated Math 2	Credit 1
5647MA Integrated Math 2 Lab	Credit 1
5710MA Algebra 2	Credit 1

5720MA Algebra 2 Honors	Credit 1
5722MA Statistics	Credit 1
5725MA Integrated Math 3	Credit 1
5701MA Integrated Math 3 Lab	Credit 1
5727MA Integrated Math 3 Honors	Credit 1
5705MA Preparation for College Algebra	Credit 1
5730MA College Algebra	Credit 1
5780MA Pre-Calculus	Credit 1
5782MA Pre-Calculus Honors	Credit 1
5785MA Integrated Math 4	Credit 1
5787MA Integrated Math 4 Honors	Credit 1
5905MA Advanced Placement Statistics	Credit 1
5910MA Advanced Placement Calculus AB	Credit 1
5920MA Advanced Placement Calculus BC	Credit 1
1525MA Math 115-College Algebra	College Credit 3

PHYSICAL EDUCATION

Career Path: Health Services and Human Services	
Page 47	
1825PE Strength Training and Fitness (Zero Hour)	Credit 1
1820PE Strength Training and Fitness	Credit 1
1820PE Strength Training and Fitness	Credit ½
1830PE Advanced Strength and Fitness	Credit 1
1835PE Women's Strength Training and Fitness	Credit 1
1845PE Women's Team Sports	Credit ½
1850PE Men's Team Sports	Credit ½
1855PE Body Sculpting for Women	Credit ½
1840PE Co-ed Fitness	Credit ½
1885PE Lifetime Fitness	Credit ½
1890PE Fitness Walking	Credit ½
1870PE Beginning Swimming	Credit ½
1875PE Swimming for Fitness	Credit ½
6550HE Health Sciences	Credit ½
1470EL Sports Medicine	Credit ½

SCIENCE

Career Path: Health Services, Human Services, Industrial and Engineering Technology, and Natural Resource Systems	
Pages 48-49	
6610BS Biology	Credit 1
6611BS Biology (Honors)	Credit 1
6612BS Biology 2	Credit 1
6614BS Exercise Physiology	Credit 1
6615BS Human Genetics	Credit 1
6620BS Advanced Placement Biology	Credit 1
6621BS Human Anatomy and Physiology	Credit 1
6622BS Human Anatomy and Physiology (Honors)	Credit 1
6629PS Environmental Science	Credit 1
6634PS ChemCom	Credit 1
6635PS Chemistry	Credit 1
6636PS Chemistry (Honors)	Credit 1
6637PS Advanced Placement Chemistry	Credit 1
6645PS Physics	Credit 1
6647PS Advanced Placement Physics B	Credit 1
6650PS Advanced Placement Physics C: Mechanics	Credit 1
6639PS Astronomy (Honors)	Credit 1
6640PS Introduction to Astronomy	Credit ½
6699SC Independent Study in Science/Research Practicum	Credit ½

SOCIAL STUDIES

Career Path: Human Services	
Pages 51-52	
4301GV Government	Credit ½
4501WH World History	Credit 1
0520NC World Studies/English 10: Connections	Credit 2
4502WH World History (Honors)	Credit 1
0527NC Advanced Placement World History/World Literature Block (Honors)	Credit 2
4601US United States History Survey	Credit 1
0530NC US Studies Block	Credit 2
4602US United States History (Honors)	Credit 1
4603US Advanced Placement United States History	Credit 1
0540NC Advanced Placement United States History/English Language and Composition	Credit 2
4806SS Advanced Placement European History	Credit 1
4801SS African-American Experience – Roots (first semester only)	Credit ½
4802SS African-American Experience – The 20 th Century (second semester only)	Credit ½
4800SS World Geography	Credit 1
4808SS Law in our Society	Credit 1
4803SS Anthropology/Archeology	Credit 1
4811SS Psychology: Exploration of Mind and Self	Credit ½
4813SS Sociology: Contemporary Issues in American Society	Credit ½
4812SS Advanced Placement Psychology	Credit 1
4706SS Advanced Placement Government	Credit 1
4899SS Independent Study in Social Studies	Credit ½

TECHNOLOGY EDUCATION

(Practical Art Credits)	
Career Path: Arts & Communications and Industrial & Engineering Technology	
Page 53	
7710PA Aerospace 1	Credit ½ or 1
7715PA Aerospace 2	Credit 1
7720PA Advanced Aerospace	Credit 1
7730PA Theatre Technology 1	Credit 1
7735PA Theatre Technology 2	Credit 1
7740PA Theatre Technology 3	Credit 1
7750PA Home Improvement	Credit ½
7755PA Wood Technology 1	Credit 1
7760PA Wood Technology 2	Credit 1
7770PA Consumer Car Care	Credit ½
7899PA Independent Study in Technology	Credit ½

OTHER PROGRAMS

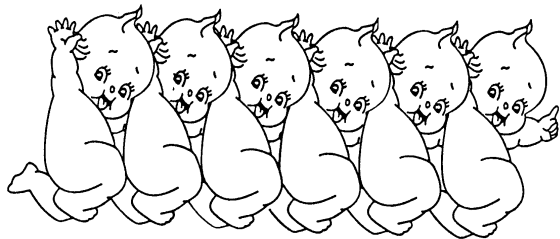
Page 54	
1500 Dual Enrollment MU	
1510 Dual Enrollment Columbia College	
1530 Dual Enrollment Moberly Area Community College	
1520 Dual Enrollment Stephens College	
1525MA Math 115-College Algebra	

Non Credit

0025 January Graduate
0020 Junior Graduate
0120NC Daily Study Hall
0124NC Alternating Study Hall
0150NC Office Aide
1435NC A+ Tutoring Internship

**MANY COURSES AND CAREER PATHS HAVE SPECIFIC PREREQUISITES.
IF YOU HAVE QUESTIONS CONCERNING THE REQUIREMENTS FOR A COURSE
BE SURE TO CONTACT YOUR COUNSELOR FOR ADDITIONAL INFORMATION.**

NOTES



AGRICULTURE

Practical Arts Credits
Career Path: Natural Resources

9005PA FLORAL AND PLANT DESIGN (Grades: 10-12 Credit: 1 Practical Arts)

Prerequisite: None

If you like working with flowers and plants and are creative, then Floral and Plant Design is the class for you. Floral and Plant Design is intended for students interested in learning how to make flower arrangements using fresh, silk, and dried plant material. Students will learn how to make a variety of design styles, holiday designs, corsages and boutonnieres, and more. Students will participate in plant and flower sales throughout the year. Students should be free from plant allergies since work will be done with a variety of plant materials when designing and in the greenhouse.

Follow-up: Floral Retail Management; Horticulture; Landscaping and Turf Management; Greenhouse Production

9006PA FLORAL RETAIL MANAGEMENT (Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: C or better average in Floral and Plant Design and instructor approval, transportation for internship, plant allergy free

Students will gain experience in operating and managing a flower shop by running plant and flower sales. Students will learn about store displays, pricing, determining profit, business communications, advertising and marketing floral products. An internship may allow students to work in a flower shop in the community. Students will need to provide transportation to their internship sites.

Follow-up: Marketing; Business Management and Ownership; Digital Media; Landscape Design; Greenhouse Production; Landscaping and Turf Management

9007PA AGRIBUSINESS (Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: C or better average in Integrated Math 1 or Algebra 1

Articulated college credit available

Many exciting career opportunities are available in agribusiness, sales, marketing and management. The agriculture industry has significant impact on the United States economy contributing over 20% annually and is a major source of agriculture food and fiber products for the world. This course will provide the basics in sales, finance, advertising and entrepreneurship for students interested in pursuing careers or post-secondary education in the agriculture industry.

Follow-up: Marketing; Economics; or any agriculture class

9009PA HORTICULTURE (Grades: 10-12 Credit: 1 Practical Arts)

Prerequisite: None

Learn about plants of all types and the four major areas of horticulture: floral design, landscaping, greenhouse plant production, and vegetable gardening. Students will learn the principles of plant science and be able to grow and maintain tropical and flowering plants in a greenhouse, develop a basic landscape design, and create floral arrangements. Students will maintain landscape plants such as trees, shrubs, lawns, and flowers as well as plan and start a vegetable garden. Students should be free from plant allergies since work will be done with a variety of plant materials. Students will be encouraged to join and participate in the Columbia FFA Chapter.

Follow-up: Landscaping and Turf Management; Floral & Plant Design; Greenhouse Production

9010PA LANDSCAPING AND TURF MANAGEMENT (Grades: 10-12 Credit: 1 Practical Arts)

Prerequisite: None

Articulated college credit available

Dual credit may be available with University of Central Missouri

Explore the exciting careers related to the landscaping industry as you study plant science, plant identification, landscape design, installation and maintenance, and turf management. Learn how to plant and care for landscaping plants, plant lawn grasses, lay sod, and care for a lawn. You will gain entry level computer aided design (CAD) skills and have the opportunity to install landscape plants in a variety of settings. Students are encouraged to participate in the Columbia FFA Chapter.

Follow-up: Landscape Design; Greenhouse Production; Floral and Plant Design

9011PA LANDSCAPE DESIGN (Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: C or better average in Landscaping and Turf Management

Articulated college credit available

This course is designed for students who want to continue training in landscaping by using drafting techniques and computer aided design (CAD). Students will create landscape drawings for the house built by the construction technology students as well as for other projects. These plans will come to life by learning to follow the landscape drawings and install the plants. Students will also learn customer relations, selling a landscape plan site analysis, project planning cost estimates and management and marketing techniques used in landscaping businesses. Students will be encouraged to join and participate in the Columbia FFA Chapter.

Follow-up: Greenhouse Production; Wildlife, Conservation, and Forestry; Floral and Plant Design

9018PA GREENHOUSE PRODUCTION (Grades: 10-12 Credit: 1 Practical Arts)

Prerequisite: None

Articulated college credit available

Dual credit may be available with University of Central Missouri

Students will grow and care for tropical, floral, and bedding plants with an environmentally friendly emphasis. This course includes plant identification, greenhouse environments, greenhouse structures, and propagation. Biological and organic methods of pest control will be emphasized. Composting and other eco-friendly methods will be implemented. Aquaponics (raising fish and plants in a liquid medium) will be done in conjunction with Culinary Arts and Conservation courses. Students will be encouraged to join and participate in the Columbia FFA chapter.

Follow-up: Landscaping and Turf Management; Floral and Plant Design; Agribusiness

9019PA GREENHOUSE OPERATIONS AND MANAGEMENT

(Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: C or better average in Producing Greenhouse Plants

This course is designed for students who have completed the requirements and demonstrated the interest and ability to learn the management strategies and practices in greenhouse plant production. In addition to continuing plant production in the greenhouse, students will learn about consumer markets, scheduling greenhouse crops, wholesaling, retailing, advertising and publicity, pricing strategies, record keeping, determining profit, personnel and customer relations. Students are encouraged to participate in the Columbia FFA Chapter.

9021PA WILDLIFE, CONSERVATION, AND FORESTRY

(Grades: 10-12 Credit: 1 Practical Arts)

Prerequisite: None

Articulated college credit available

Dual credit may be available with Missouri State University

Students interested in pursuing careers in wildlife management, conservation, natural resources, and forestry will explore the career scopes and responsibilities of conservation officers, extension agents, foresters, and others. Students will also learn about Missouri species from the elusive bobcat to the invasive zebra mussel while studying soil and water conservation, wildlife habitat management, and native grasses and forest regeneration. Students will be encouraged to join and participate in the Columbia FFA Chapter.

Follow-up: Urban Conservation Issues; Landscaping and Turf Management; Greenhouse Production; Animal and Veterinary Science; Lab Exploration 101

9022PA URBAN CONSERVATION ISSUES

(Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: C or better average in either Wildlife, Conversation, and Forestry or Environmental Science

Dual credit may be available with Missouri State University

This advanced level course will combine the principles learned in the introduction class to investigate current issues. These include the effects of recreational activities on our environment, maintaining biodiversity with the expansion of urban areas, and developing strategies for managing wildlife in non-rural areas. Students will be encouraged to join and participate in the Columbia FFA Chapter

9030PA INTRODUCTORY SMALL GAS ENGINES

[semester class]

(Grades: 10-12 Credit: ½ Practical Arts)

Prerequisite: None

This is a semester course designed for students interested in developing the basic skills to maintain and troubleshoot small engines. The primary study will be limited to 4-cycle engines, the most widely used in lawn care machinery. Students will be eligible to join and participate in the Columbia FFA Chapter.

Follow-up: Introductory Welding and Agriculture Mechanics; Automotive Technology; Electronics

9031PA SMALL ENGINE TECHNOLOGY

(Grades: 10-12 Credit: 1 Practical Arts)

Prerequisite: None to enter; must pass qualifying exam to continue second semester

Learn to trouble-shoot the machinery owned by literally hundreds of millions of American home and business owners as you explore carburetion, ignition, basic engine principles, and

overhaul procedures. With primary focus on 4-cycle engines, students who successfully complete the tool and engine component examination and earn a passing grade first semester will be eligible to complete a year of instruction. Students will be encouraged to join and participate in the Columbia FFA Chapter.

Follow-up: Automotive Technology 1; Electronics

9040PA INTRODUCTORY WELDING AND AGRICULTURE MECHANICS [semester class]

(Grades: 10-12 Credit: ½ Practical Arts)

Prerequisite: None

This fast-paced introduction to arc and MIG welding, acetylene cutting, as well as hot and cold metal working, will give the future farmer, Ag businessperson, or self-reliant rural resident fundamental training in power tools, electrical wiring, and wood working. Students will put that training to work in constructing small metalworking projects. Students will be encouraged to join and participate in the Columbia FFA chapter.

Follow-up: Introductory Small Gas Engines; Automotive Technology

9041PA WELDING TECHNOLOGY AND AGRICULTURE MECHANICS

(Grades: 10-12 Credit: 1 Practical Arts)

Prerequisite: None

Articulated college credit available

Open the doors to diversified careers by learning the skills of arc and MIG welding, and acetylene cutting, and enhance future employability by knowing the essentials of hot and cold metalworking, woodworking, and power tool operation. Work with paints, sketch and draw plans while preparing to construct basic projects in wood and metal. Attaining these skills is the basis for employment in welding, auto body repair, and steel fabrication as well as for jobs in equipment manufacturing and sales. This is a prerequisite course for Advanced Welding and Project Fabrication. Students will be encouraged to join and participate in the Columbia FFA chapter.

Follow-up: Advanced Welding and Project Fabrication; Automotive Technology; Construction Technology

9042PA ADVANCED WELDING AND PROJECT FABRICATION

(Grades: 11-12 Credit: 2 Practical Arts)

Prerequisite: B or better average in Welding Technology or Introductory Welding and Agricultural Mechanics and a performance assessment may be required

Articulated college credit available

Advanced Welding and Project Fabrication will allow students to further enhance arc and MIG skills. Students will also design and construct major metal projects such as trailers. The fabrication part of the course will start with group projects to familiarize students with the "real" world setting. Students will be required to design and draw plans before construction of projects occur. Because safety is a shop priority, students will be required to wear clothing and shoes used in industry. Welding helmets, gloves and safety glasses will be issued at the beginning of the school year. Students will be encouraged to join and participate in the Columbia FFA Chapter.

Follow-up: Construction Technology; Certified Welding; Automotive Technology

9060PA ANIMAL AND VETERINARY SCIENCE**(Grades: 10-12 Credit: 1 Practical Arts)***Prerequisite: None*

With a focus on care and production of animals, large and small, this course examines careers in the livestock industry including animal health and nutrition, veterinarian, farm/ranch manager, sales, etc. Units of study include, breeds, reproduction, nutrition, genetics, poultry, and horses, as well as agricultural and livestock record keeping, agricultural leadership, and more. Each student will receive training in basic record keeping. Students will be encouraged to join and participate in the Columbia FFA Chapter.

Follow-up: Advanced Animal Science; Introduction to Healthcare Professions; Professions in Healthcare; Wildlife, Conversation, and Forestry; Laboratory Exploration 101

9061PA ADVANCED ANIMAL SCIENCE**(Grades: 11-12 Credit: 1½ Practical Arts and ½ Science)**

Prerequisite: B or better average in Animal and Veterinary Science and 80% mastery on Career Center Expectations
Articulated college credit available

Dual credit may be available with University of Central Missouri

Students ready to build upon what they learned in Animal and Veterinary Science will be instructed on symptoms and treatments of diseases, the particulars of parturition and selection, and livestock management and judging. Units on food science will cover identification, grading, judging, cutting, and curing, of meat. In addition, students will study poultry, cattle, and other domestic animals, large and small, as well as some indigenous wild animals. There will some emphasis on agricultural records, ensuring that all students are trained in the basics. Students will be encouraged to join Columbia FFA Chapter and learn about organizational leadership.

Follow-up: Laboratory Foundations; 21st Century Life Sciences; Introduction to Healthcare Professions; Introduction to Healthcare Professions-Honors; and Professions in Healthcare

BUSINESS, MARKETING, AND COMPUTER EDUCATION

Practical Arts Credits

Career Path: Business, Management, and Technology

7105PA KEYBOARDING

(Grades: 10-12 Credit: ½ Practical Arts)

Prerequisite: No keyboarding skills, does not type by the touch method, or keying less than 20 words a minute

Follow-up Class(es): Any Business and Marketing class where prerequisites are met

Keyboarding is like a sport – the more you practice, the better you get. Improve your stats with this class. While striving to improve technique, speed, and accuracy, you will also be introduced to word processing, spreadsheets, electronic presentations and more. With these skills, you'll become a MVP in the classroom and be on the road to becoming a pro. ***This course is designed for students who type less than 20 wpm. Students exceeding 20 wpm SHOULD enroll in MS Office 1 not Keyboarding.***

7210PA MS OFFICE 1

(Grades: 10-12 Credit: ½ Practical Arts)

Prerequisite: Keyboarding or Proficient touch keyboarding skill; accurately type 20 words per minute minimum

Follow-up Class(es): Any Business and Marketing class where prerequisites are met

Jump-start your high school career! Kick out those English papers in a flash using Microsoft Word, power through those presentations using PowerPoint, muscle through math and science projects by crunching numbers and graphing like a pro with Excel, and knock those web pages and brochures out of the park with Microsoft Publisher. Take your keyboarding skills to the next level as you build speed and endurance. ***Students who can accurately keyboard a minimum of 20 wpm using the touch method SHOULD enroll in this course rather than Keyboarding.***

7215PA MS OFFICE 2

(Grades: 10-12 Credit: ½ Practical Arts)

Prerequisite: Keyboarding & Introduction to MS Office or Introduction to MS Office 1 or MS Office 1

Follow-up Class(es): Any Business and Marketing class where prerequisites are met

Showcase your mad computer skills! Solve real-world business problems! Buff up your design skills! Use what you've learned in MS Office 1 and kick it up a notch to solve both business and school problems; create documents, presentations, publications, spreadsheets, charts, and databases. Create an impressive professional portfolio that will wow both your teachers and future employers.

7220PA ACCOUNTING 1

(Grades: 10-12 Credit: 1 Practical Arts)

Prerequisite: C or better in Integrated Math 1 or Algebra 1

Follow-up Class(es): Any Business and Marketing class where prerequisites are met

The future of accounting is bright according to the Bureau of Labor Statistics which projects a 34% increase in job openings. Students who plan to major in any field of business in college will have several classes in their degree program, we can get you started. Accounting and finance are core business functions vital to a company's success in any economic environment. Organizations place a premium on employees who can identify cost efficiencies and develop long-range

business strategies. Students will learn to plan, summarize, analyze, and interpret financial information. The study of accounting will also prepare students for employment, assist them in keeping personal records, and form a basis for future experiences in finance. Spreadsheet software will be used to produce financial reports.

7240PF PERSONAL FINANCE

(Grades 11-12 Credit: ½ Practical Arts)

Prerequisite: None

Follow-up Class(es): Any Business and Marketing class where prerequisites are met

This course will help students learn how to manage their money. They will learn how to make proper financial decisions, prepare a budget, understand tax liabilities, evaluate insurance, explore investment options, and promote intelligent spending, saving, and use of credit. In addition students will analyze how career choice, education, skills and economic conditions affect income and their financial decisions. This course will focus on the state mandated competencies of income, money management, spending and credit, and saving and investing.

7260PA PERSONAL & BUSINESS LAW

(Grades: 10-12 Credit: ½ Practical Arts)

Prerequisite: None

Follow-up Class(es): Any Business and Marketing class where prerequisites are met

You will find this course enjoyable, interesting, and practical. This course is designed to introduce you to laws and issues which may affect you in your personal and professional life. You will gain an appreciation of rights and duties of citizens, consumers, workers, and business owners. Personal and Business Law piques student interest in the legal system and the basics of law, elements of contracts, consumer law, personal and employment law.

7270PA INTERNATIONAL BUSINESS

(Grades: 10-12 Credit: ½ Practical Arts)

Prerequisite: None

Follow-up Class(es): Any Business and Marketing class where prerequisites are met

This course is designed to introduce students to the global functions of business and the marketplace. Areas of study include: careers, work environments and structures, social and cultural factors, marketing, economics, finance, trade/import/export practices, and international trade laws and regulations. Students will have an opportunity to explore national concerns as well as community concerns. Computer skills and knowledge of a foreign language will add to the student's growth through this course.

9301PA MARKETING

(Grades: 10-12 Credit: 1 Practical Arts)

Prerequisite: None

Learn concepts, principles, skills, and attitudes essential to all marketing operations. In the United States one out of three jobs is in the marketing field. According to the U.S. Department of Labor, marketing and sales occupations are two of the fastest growing fields. In fact, opportunities in marketing have never been better. Students work with all types of market and business problems, including computer simulations. Units of study include economics, fundamentals of marketing, human relations, communications, product development, overview of promotional mix, packaging, and labeling.

Follow-up: Business Management and Ownership; Sports and Entertainment Marketing; Advertising and Promotion; Digital Media

9304PA SPORTS AND ENTERTAINMENT MARKETING

(Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: B or better average in Marketing

Look behind the scenes of a multi-billion dollar industry and learn about the business side of sports and entertainment. Examine athletic endorsements, event sponsorships, product promotion, event planning, and careers in the field of sports and entertainment marketing. Students will apply marketing principles to sports and entertainment by organizing and coordinating an event. This class will prepare students for their post-secondary study in this field.

Follow-up: Business Management and Ownership; Advertising and Promotion

9305PA ADVERTISING AND PROMOTION

(Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: B or better average in Marketing

This advanced marketing course explores how advertising and promotions affect consumers and the marketing process. Students will analyze all facets of the promotional mix and learn the psychology of the promotional channels, including advertising (TV, print, radio, outdoor, etc.), sales promotion, public relations and publicity. Students will design holistic advertising and promotional plans for real products/services. They will also learn the importance of media planning and the creative side of advertising and promotional development. Because development is a collaborative effort in the workplace, this class also focuses on the importance of teamwork in the creation of effective advertising, so cooperation is a major focus of all the projects. This class will prepare students for their post-secondary study in this field.

Follow-up: Business Management and Ownership, Sports and Entertainment Marketing

9307PA BUSINESS MANAGEMENT AND OWNERSHIP

(Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: None

Dual credit may be available with Central Methodist University

Develop the necessary skills that lead to effective business management and ownership. Write a business plan for a business you would like to open and begin developing supervisory skills needed in management and leadership. The units of study include entrepreneurship, communication, leadership, supervision, motivation and finance. You will also learn about starting a small business, the legal environment of small business, market research, management functions, and staff development.

Follow-up: Marketing; Sports and Entertainment Marketing; Advertising and Promotion

9321PA [COE] COOPERATIVE OCCUPATIONAL EDUCATION 1

(Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: None

This course will assist students in making career choices and in the transition from school to work through supervised work experience. Work sites for this program may be developed with assistance of the instructor and must have instructor approval. The course of study will include careers and career choices, job seeking and advancement skills, and fundamental business concepts. Additionally, students will explore work relations for employment, communication, human relations, and money management. **Instructor approval, approved job site, and enrollment in COE Internship are required.**

9322PA [COE] COOPERATIVE OCCUPATIONAL EDUCATION 2

(Grades: 12 Credit: 1 Practical Arts)

Prerequisite: Instructor approval; successful completion of COE 1; approved job site; and enrollment in COE Internship

This course assists students in transition from school to work through supervised work experience. Work sites may be developed with guidance of the instructor and sites must have instructor approval. The course of study will include expectations of employers, worker rights, safety, leadership, responsible citizenship, lifelong education, and human relations.

9331PA COE INTERNSHIP

(Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: Enrollment in COE 1 or 2 and instructor approval

The internship program is designed to develop career competence by coordinating classroom instruction with employment. Upon successful completion of the COE class and the internship experience, the student will receive one or two credits (based on the number of hours of supervised training) in addition to a regular salary paid by the employer.

9130PA DIGITAL MEDIA

(Grades: 10-12 Credit: 1 Practical Arts)

Prerequisite: None

Articulated college credit available

Dual credit may be available with University of Missouri-Kansas City

In this fast-paced course, you will work with complex software to create digital collages and scrapbook pages in Photoshop; create logos and original vector art in Illustrator; combine audio, image and video files into documentary videos using Audacity and Premiere, and code web pages with HTML. It is expected that students be able to type 30 words per minute, have strong file management skills and be able to follow multi-step directions. Students are required to memorize commands and determine when and how to apply concepts in unit projects. *Follow-up: Digital Video and Motion Graphics; Graphic Design and Desktop Publishing; Web Design and Interactive Media; Web Scripting and Database Management; Computer-Aided Design*

9134PA GRAPHIC DESIGN AND DESKTOP PUBLISHING

(Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: B- average in Digital Media

Articulated college credit available

Dual credit may be available with University of Missouri-Kansas City

Dare to go beyond the ordinary—prepare to unleash your imagination and delve into graphic design for print media. Design magazines, advertisements, brochures, booklets, newsletters, posters, book jackets, business cards and letterhead. For your designs and page layouts, you'll use InDesign. You'll also master advanced Adobe PhotoShop techniques, and you'll create vector art using Adobe Illustrator. These, like all the programs in which you'll be trained, are required tools in graphic design and desktop publishing.

Follow-up: Digital Video and Motion Graphics, Web Design and Interactive Media; Web Scripting and Database Management; Computer-Aided Design; Business Management and Ownership; Marketing; Leadership in Media Technology

9138PA DIGITAL VIDEO AND MOTION GRAPHICS

(Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: B- average in Digital Media

Articulated college credit available

Dual credit may be available with University of Missouri-Kansas City

Plan and produce a short film! Render the special effects in a movie trailer! Use professional techniques to encode onto a DVD. Work with cutting edge hardware and software to bring your ideas to life. Use Adobe Photoshop, Premiere Pro, After Effects, Encore, and Soundbooth in creating movie trailers, commercials, short films and more just as studio professionals do.

Follow-up: Graphic Design and Desktop Publishing; Web Design and Interactive Media; Web Scripting and Database Management; Computer-Aided Design; Marketing; Leadership in Media Technology

9140PA WEB DESIGN AND INTERACTIVE MEDIA

(Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: B- average in Digital Media

Articulated college credit available

Dual credit may be available with University of Missouri-Kansas City or Central Methodist University

Become a master of web page design. Use XHTML, CSS, AJAX, Adobe Photoshop, Dreamweaver and Flash to design and create websites and interactive animations. Use Cascading Style Sheets to create the perfect website and publish your site to the web.

Follow-up: Graphic Design and Desktop Publishing; Digital Video and Motion Graphics; Business Management and Ownership; Marketing; Leadership in Media Technology; Web Scripting and Database Management

9142PA WEB SCRIPTING AND DATABASE MANAGEMENT

(Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: B- average in Digital Media or C++

Programming

Learn the dynamic side of websites. Use JavaScript, PHP, MySQL, Microsoft Access, ColdFusion, ActionScript, Dreamweaver to create database driven websites. Learn how to create content management systems that allow dynamic updates and changes to websites.

Follow-up: Digital Video and Motion Graphics; Graphic Design and Desktop Publishing; Web Design and Interactive Media

9144PA LEADERSHIP IN MEDIA TECHNOLOGY

(Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: Interview with instructor

Students help maintain the career center's web site as well as produce a variety of other digital media: newsletters, videos, etc. Working as a team and using various tools to complete projects, students meet with clients for content and feedback. This class is for responsible students from all career center program areas who have been approved by an instructor through an interview.

Follow-up: Digital Video and Motion Graphics; Graphic Design and Desktop Publishing; Web Design and Interactive Media

9145PA BROADCAST JOURNALISM 1

(Grades: 10-12 Credit: 1 Practical Arts)

Prerequisite: B or better average in English 9 or above

This class introduces students to Broadcast Journalism (TV news). You will explore the history of journalism, the role of journalists, current events, news production elements and learn techniques to prepare you for continuing education and/or a career in Broadcast Journalism. Students will learn to produce a news show, which includes story development, script writing, videography and computer editing. Students will be reporting for the school news show, so this class requires occasional outside work time, often during lunch and after school and/or early evenings. Students will also have the option to attend journalism conventions, workshops and field trips. For more information and to see a sample of what you'll eventually be producing (podcast of our shows - one per school), go to the following website and click on "More Course Information": <http://www.career-center.org>.

Follow-up: Broadcast Journalism 2, 3, or Internship

9146PA BROADCAST JOURNALISM 2

(Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: B or better average in Broadcast Journalism 1

This class is an extension of Broadcast Journalism I. You will continue to produce the school news show and stories for it and will also produce special projects. Special projects include the senior video yearbook and specialty shows and programs (homecoming, winter concert, etc.). Like Broadcast Journalism I, this class requires outside work time, often during lunch and after school and/or early evenings. You will also have the option to attend journalism conventions, workshops and field trips.

Follow-up: Broadcast Journalism 3 or Internship

9147PA BROADCAST JOURNALISM 3

(Grades: 12 Credit: 1 Practical Arts)

Prerequisite: B or better average in Broadcast Journalism 2

This is a great opportunity to take on added responsibility and to work independently with teacher supervision and guidance. You will take on a leadership role in Broadcast Journalism as Producer or Special Projects Producer. You would be responsible for the overall production of the school news show as well as cover district news stories, events, and productions. You will spend about 2 to 4 hours a week traveling to schools around the district producing stories on district news stories, events and productions. Many of these stories require after school and/or weekend commitments. You would also be responsible for "filling in" for necessary footage of sports or news stories when Broadcast Journalism 1 or 2 students are otherwise occupied.

9148PA BROADCAST JOURNALISM INTERNSHIP**(Grade: 12 Credit: 1 Practical Arts)**

Prerequisite: B or better average in Broadcast Journalism 2; application and instructor approval

This is an excellent opportunity for you to get your foot in the door at a local news organization (KOMU, KMIZ, KRCG, etc.). You will report and communicate with the Broadcast Journalism teacher for schedule and assignment updates, but would spend most of your time (4 hours a week) at a local news organization.

9161PA C++ PROGRAMMING**(Grades: 10-12 Credit: 1 Practical Arts)**

Prerequisite: Keyboarding skills; C or better average in Geometry or Integrated Math 2

Articulated college credit available

Dual credit may be available with University of Missouri-Kansas City

C++ Programming introduces students to elementary algorithms and basic programming concepts to provide a solid foundation in computer programming and preparation for post-secondary education. Students will learn to design and implement computer-based solutions in a variety of applications using C++. This course promotes the development of problem solving and team communication skills.

Follow-up: AP Computer Science; Advanced C++ Programming; Python Programming; Electronics; Networking Exploration

9160PA PYTHON PROGRAMMING**(Grades: 11-12 Credit: 1 Practical Arts)**

Prerequisite: C or better average in C++ Programming

Python is an interactive, object-oriented programming language that can be used for writing quick scripts, stand-alone programs and complex applications. Students will code applications, projects, and games in the Python programming language. The development of problem solving skills will be emphasized. This course is recommended for students who don't desire to earn dual credit and want to learn more about programming for personal use.

Follow-up: AP Computer Science; Advanced C++ Programming; A+ IT Essentials; Electronic; Networking Exploration

9162PA ADVANCED C++ PROGRAMMING**(Grades: 11-12 Credit: 1 Practical Arts)**

Prerequisite: C or better average in C++ Programming

Articulated college credit available

Dual credit may be available with University of Missouri-Kansas City or Central Methodist University

Students who have successfully completed C++ Programming may choose to develop a deeper understanding of problem solving and programming through this advanced course. Students will learn to develop, select, and implement algorithms and data structures to produce more complex programs, either individually or as a team. Students develop problem-solving skills that can help them build successful careers.

Follow-up: Advanced Programming Projects; A+ IT Essentials; Electronics; Networking Exploration; Computer-Aided Design

9164PA ACCELERATED C++ PROGRAMMING**(Grades: 10-12 Credit: 2 Practical Arts)**

Prerequisite: Keyboarding skills; C or better average in Geometry or Integrated Math 2

Articulated college credit available

Dual credit may be available with University of Missouri-Kansas City

This fast-paced course allows students to complete beginning and advanced C++ programming courses in one school year. Students attend this class 90 minutes daily. Note: Grade of C or better in first semester required to continue into second semester.

Follow-up: Advanced Programming Projects; A+ IT Essentials; Electronics; Networking Exploration; Computer-Aided Design

9163PA ADVANCED PROGRAMMING PROJECTS**(Grade: 12 Credit: 1 Practical Arts)**

Prerequisite: C or better average in Advanced C++ and instructor approval

Advanced Programming Projects is designed to allow motivated students the opportunity to delve deeper into programming topics and explore new areas of programming in a creative manner. Students will work individually or in small groups to plan, produce advanced algorithms, and code programs. This course simulates the workplace environment where team communication and problem solving skills are essential.

Follow-up: Electronics; Networking Exploration; A+ IT Essentials; Computer-Aided Design

9165PA ADVANCED PLACEMENT COMPUTER SCIENCE**(Grades: 11-12 Credit: 1 Practical Arts)**

Prerequisite: C or better average in Algebra 2 or Integrated Math 3

Articulated college credit available

The goal of this class is to prepare students for the Advanced Placement in Computer Science Exam. In this fast-paced course students will learn to design and implement computer-based solutions to problems in a variety of application areas; develop, select, and implement algorithms and data structures to solve problems; code fluently in an object-oriented paradigm using Java; identify major hardware and software components and their relationships; and recognize the ethical and social implications of computer use. This course is writing intensive; students should enter with strong written communication and analytical skills.

Follow-up: Advanced Programming Projects; Networking Exploration; Electronics; Computer-Aided Design

9800PA A+ IT ESSENTIALS**(Grades: 10-12 Credit: 1 Practical Arts)**

Prerequisite: None

Articulated college credit available

Dual credit may be available with University of Central Missouri

This course presents in-depth exposure to computer hardware and operating systems. Students learn the functionality of hardware and software components as well as maintenance and safety issues. Through activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems. This course helps students prepare for the CompTIA A+ Certification, which validates the latest skills needed by today's computer support professionals. The course also serves as the foundation for Networking Exploration course.

Follow-up: Networking Exploration; C++ Programming; Electronics

9811PA NETWORKING EXPLORATION**(Grades: 11-12 Credit: 2 Practical Arts)***Prerequisite: None**Articulated college credit available**Dual credit may be available with University of Central Missouri*

Did you ever want to know how to set up your own network (LAN)? Students learn the fundamentals of networking architecture and how data travels through the network in the first semester. Students will setup small LANs (Local Area Network) in the classroom and conduct practical applications using those LANs, sniff data going across networks, see the different parts of that data, and understand what it is doing. In the second semester students will be introduced to how to route traffic across a network. Skills learned in the class will help students setup their own LAN. The class introduces students to a career in networking and provides them an option of taking the class for college credit or the skills to take the Cisco Certified Entry Networking Technician testing.

*Follow-up: Advanced Networking; C++ Programming; A+ IT Essentials; Electronics***9812PA ADVANCED NETWORKING****(Grade: 12 Credit: 2 Practical Arts)***Prerequisite: C or better average in Networking Exploration**Articulated college credit available**Dual credit may be available with University of Central Missouri*

Technology trained individuals are highly sought after in numerous career fields. Students will build on the skills they have learned in Networking Exploration and expand those abilities to fulfill the job responsibilities of a network technician or administrator. The student will install, expand and maintain networks in the class and have some opportunity to use those skills in the work place. This course will assist students to prepare for the Cisco Certified Network Associate test. The course covers networking topics including VLANs, WANS, NAT, and wireless networks. Students will work in groups setting up a server and a network.

EEE

1350NC EEE RESOURCE (Grades : 10-12 No Credit)

Prerequisite: Students must meet criteria for participation in the state-assisted gifted program.

This is a small group study hall option for EEE students. The class addresses the academic and social-emotional needs of gifted students by helping students gain independence and self-direction.

1360EL ADVANCED INVESTIGATIONS (Grades: 10-12 Credit: 1 Elective)

Prerequisite: Students must meet criteria for participation in the state-assisted gifted program.

This is a semester or year long course designed to meet individual needs of gifted students by building on critical thinking skills. Each student will have the opportunity to

include an internship or engage in an intensive investigation of his or her choice. To be successful in this course the students must demonstrate advanced thinking, intellectual curiosity and independent direction.

1365EL ADVANCED SEMINAR (Grades: 10-12 Credit: 1 Elective)

Prerequisite: Students must meet criteria for participation in the state-assisted gifted program.

This is a semester or year long course designed to meet individual needs of gifted students by building on critical thinking skills. To achieve these goals students will participate in a variety of activities such as architecture, political philosophy, ethics and social criticism. Further learning opportunities will be designed to meet the individual needs and interests of the student enrolled in the program.

ENGLISH LANGUAGE LEARNERS

These courses are designed to assist in meeting the English language needs of high school students for whom English is not a native language. ELL classes focus on an integrated approach to language based on student needs, abilities and academic goals. Academic and content English for communication and comprehension is emphasized. Placement is determined by an initial testing of English proficiency by the ELL staff.

1230EL ELL Resource 10-12 (Credit: 1 Elective)

This course is designed for ELL students who want to receive supportive assistance for content area classes. Students meet daily in a small classroom setting with an ELL teacher. Students may work in groups or individually, and may work with the ELL teacher or with other support faculty in Hickman's Math or Literature Labs. This class is recommended for beginning and intermediate English language learners. Because students receive elective credit for the course, students are expected to bring books, assignments, planners, and learning tools each day. Grades are based on active participation by the student.

1228EL1 ELL IMMERSION CENTER BLOCK 10-12 (Credit: 4 - 1 English, 3 Language Arts)

The ELL Immersion Center is designed to help students who have very limited English literacy skills. During this four-hour class, students will receive intensive English instruction in speaking, reading, writing and listening. Vocabulary for math, science and social studies will be introduced for use later in other classes. This accelerated English class will enable students to move quickly in completing remaining high school graduation credits. Students will become acclimated to the new environment with different school and community cultures to help make the transition into high school smoother.

1237LA ELL 2 BLOCK 10-12 (Credit: 1 Language Arts, 1 English)

This two-hour ELL English class is for the ELL student who is at the intermediate level of English language proficiency. Reading, writing, speaking, and listening skills needed for success in the regular classrooms will be developed in academic thematic units, and vocabulary emphasis will be placed on content language frequently used in the mainstream classrooms. One language arts credit and one English credit is earned for successfully completing the class.

1238LA ELL LITERACY 10-12 (Credit: 1 Language Arts)

This course is designed for intermediate English language learners and functions as a complementary class with *ELL English 10: World Literature and Writing*. Students must be dually enrolled in *ELL English 10* to enroll in this course. Besides providing additional support for English 10, students study the structure and elements of both fiction and non-fiction, formal and informal writing with an emphasis on grammar, usage, and vocabulary skills. Students will develop reading, writing, speaking and listening skills through novels, short stories, essays, plays, and poetry. Students will develop language skills through expository writing, presentations, and film study in a multicultural setting.

1240EN ELL 3 ENGLISH 10: WORLD LITERATURE AND WRITING 10-12 (Credit: 1 English)

Targeted for the intermediate to advanced second-language student, this is a course designed for the development of reading, writing, thinking, and speaking skills. English 10 will emphasize literature and writing with written assignments that include (but are not limited to) the following: personal experience, writing about literature, and expository writing (essays and research papers). Students will read novels, short stories, and works of non-fiction that have a focus on global issues and topics. This course is designed to prepare students for college.

1250MA ELL 3 ALGEBRA I 10-12**(Credit: 1 Math)**

This course is for the ELL who needs English language support with the regular 5617MA Algebra I class. Content is the same as other Algebra I classes. Algebra I is a complete 1-year algebra course. Students learn notation, manipulation, application and problem solving skills with variables, including linear equations, quadratic equations, factoring and multiplying polynomials. Students should expect daily challenging out-of-class assignments to reinforce class work and a fast paced curriculum. Successful completion of this course will satisfy prerequisites for Geometry. (Graphing calculators are used in this class.)

1251MA ELL 3 GEOMETRY 10-12**(Credit: 1 Math)**

Prerequisite: Algebra I and teacher recommendation

This one year course is for ELL students who need English language support with the regular 5651MA Geometry class. Course content is equivalent to other Geometry classes. Geometry, plane and solid, is a study of rectangular figures in 2 or 3 dimensions. Emphasis is placed on proving theorems using deductive reasoning. Such topics as areas and volumes of plane and solid figures are also included. A strong background in Algebra I is required. Both international and American students comprise the population of this class

1244BS ELL 3 BIOLOGY 10-12**(Credit: 1 Biological Science)**

This course is for the ELL student who needs language support within the regular 6610BS Biology class. Content is the same as other biology classes, and international and American students comprise the population. One biological science credit is granted for successfully completing the class.

1242WH ELL 3 WORLD HISTORY 10-12**(Credit: 1 History/Social Studies)**

This class is for the ELL student who needs language support within the regular WH4501 World History class. Content is the same as other world history classes, and international and American students comprise the classroom population. The world history graduation requirement is granted for successful completion of the class.

1248US ELL 3 UNITED STATES HISTORY SURVEY 10-12**(Credit: 1 History/Social Studies)**

This class is for the ELL student who needs language support within the regular 4601US United States History Survey class. Content is the same as other US History classes. International and American students comprise the population, and one U.S. history credit is granted for successful completion of this class.

ENGINEERING AND INDUSTRIAL TECHNOLOGY

Practical Arts Credits

Career Path: Arts & Communications and Industrial & Engineering Technology

9400PA AUTOMOTIVE AND TRANSPORTATION ESSENTIALS

(Grades: 10-12 Credit: 1 Practical Arts)

Prerequisite: None

This course is for students interested in automotive or related fields from a business and technical perspective. Subjects covered include new vehicle design, green technology, alternative fuels, hybrid vehicles, automotive career exploration, safety inspection, and an introduction to technical systems. Students will spend time in class, lab, and on field trips to local businesses.

Follow-up: Automotive Technology 1; Computer-Aided Design 1, Civil Engineering and Architecture

9401PA AUTOMOTIVE TECHNOLOGY 1

(Grades: 11-12 Credit: 3 Practical Arts)

Prerequisite: Satisfactory score on required assessment

Articulated college credit available

Automotive Technology is a two-year course in the basics of auto diagnosis and repair, which follows ASE/NATEF (National Automotive Technicians Education Foundation) guidelines. This course is for students who are interested in automotive technology as a profession. The course of study includes eight major units covered during two years of instruction. One year the units will include Brakes, Steering and Suspension Systems, Engine Repair, Manual Drive Train, Automatic Transmission/Trans-axle, and Heating and Air Conditioning. In the other year, the units will include Electrical/Electronics and Engine Performance. Students will alternate classroom studies with lab or shop experiences. Students will have experience in each of the major areas with 60% of the time in the lab/shop developing technical skills. Approved work clothes and shoes are required.

Follow-up: Automotive Technology 2; Electronics; Certified Welding

9402PA AUTOMOTIVE TECHNOLOGY 2

(Grade: 12 Credit: 3 Practical Arts)

Prerequisite: C or better average in Automotive Technology 1

Articulated college credit available

This is a continuation of Automotive Technology 1 in which students will cover the remainder of the eight major units of instruction. See Automotive Technology 1 for list of units. Approved work clothes and shoes are required.

9451PA CERTIFIED WELDING 1

(Grades: 10-12 Credit: 2 Practical Arts)

Prerequisite: None

This course, accredited by the American Welding Society, will introduce students to all aspects of the welding industry. Students will explore the many different career fields available to welders as well as the education and apprenticeship opportunities after graduation from high school. Students will be introduced to welding steel plate using Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW), and Flux Core Arc Welding (FCAW). Students will learn how to cut steel with Oxyfuel, Carbon Arc, and Plasma. In addition, students will become familiar with many of the welding symbols and codes used in the welding and fabrication industry. Students will be challenged to develop their leadership skills by joining and participating in SkillsUSA. Approved work clothes and shoes are required.

Follow-up: Certified Welding 2

9452PA CERTIFIED WELDING 2

(Grades: 11-12 Credit: 2 Practical Arts)

Prerequisite: C or better average in Certified Welding 1

This class will further develop welding skills in plate, pipe, and non-ferrous materials such as aluminum and stainless. Students will be expected to learn advanced fit-up and layout as well as welding symbols. Students will be offered the American Welding Society's SENSE certification exam, which will help them to be successful on their first job or in acquiring advanced welding degrees. Students will be encouraged to become involved in the SkillsUSA student organization to further develop their leadership skills. Approved work clothes and shoes are required.

9455PA IRON ART AND DESIGN

(Grades: 10-12 Credit: 1 Practical Arts)

Prerequisite: None

Iron Art and Design will challenge students to use their imagination to create art work from copper, steel, aluminum, and other alloys. Students will employ modern blacksmith welding techniques to develop 3-D art projects and silhouettes in steel. They will use acetylene torches to change the hues of copper plates and direct the white heat of arc rods to meld steel to steel. In addition, students may develop their leadership skills through participation in SkillsUSA. Approved work clothes and shoes are required.

9500PA INTRODUCTION TO THE CONSTRUCTION INDUSTRY

(Grades: 10-12 Credit: 1 Practical Arts)

Prerequisite: None

The construction industry has vast employment opportunities. Would you like to learn the basics of a career you could enter right out of high school or earn money to help you with college? Do you prefer active challenging activities filled with variety and personal satisfaction to sitting at a desk all day? If so, the construction industry has openings, locally and nationally, waiting for you! This course offers experience and training in a variety of the construction industry trades. Coursework includes both classroom and lab activities that combine thinking skills with construction lab projects. Successful students in this course need confidence in their math, reading, and thinking skills. Topics covered include jobsite safety, construction math, hand tools, power tools, employability skills, green building principles, blueprint reading, concrete, house framing, house wiring, drywall, roofing, plumbing, and heating and air conditioning.

Follow-up: Commercial and Residential Wiring; Construction Technology; Certified Welding

9501PA CONSTRUCTION TECHNOLOGY 1

(Grades: 11-12 Credit: 3 Practical Arts)

Prerequisite: C or better average in Integrated Math 1 or Algebra 1

Build a house and receive high school credit at the same time. Learn the rewards of a career in the field that employs the largest number of workers in the country. Participate in the construction of a new house from "the ground up" as you join other students to build a home in our community. In addition, students will experience other aspects of the construction trade. Successful students continue into Construction Technology 2 or to college, apprenticeships, and/or work in the construction field. There is excellent job placement for students who have proven their knowledge and work ethic. Approved work clothes and shoes are required.

Follow-up: Construction Technology 2; Computer-Aided Design; Commercial and Residential Wiring 1; Welding Technology and Agricultural Mechanics; Certified Welding

9502PA CONSTRUCTION TECHNOLOGY 2

(Grade: 12 Credit: 3 Practical Arts)

*Prerequisite: C or better average in Construction Technology 1
Articulated college credit available*

This advanced class is for students who are seriously considering a career in the construction field. Students will have the opportunity to further develop skills and techniques learned in Construction Technology 1 as they develop responsibility and management skills. Students serve as team leaders for the construction "crew" of first year students. Students are encouraged to work in the construction industry during the summer between their junior and senior years, and area employers contact the instructor for student referrals. In addition, students completing the program have exceptional opportunities to go directly to work in the construction field or to further their education in a post-secondary program or apprenticeship. Approved work clothes and shoes are required.

9551PA COMMERCIAL AND RESIDENTIAL WIRING 1

(Grades: 11-12 Credit: 3 Practical Arts)

Prerequisite: C or better average in Integrated Math 1 or Algebra 1

This is an electrical apprenticeship-training program designed for students who are interested in exploring a rewarding career as an electrician or related career. The course provides ample opportunities to acquire safe and thorough knowledge and experience in the field. In addition to class and lab work, students participate in wiring several new homes throughout the year. Students who are interested in the program must have confidence in their math abilities and be physically fit. There is a local and nation-wide demand for qualified electricians who earn above average pay performing work that is active and rewarding. This course prepares students for electrical licensing exams and certifications. Graduates of our program have a good placement rate working as electricians in the surrounding community.

*Follow-up: Commercial and Residential Wiring 2;
Construction Technology 1; Computer-Aided Design*

9552PA COMMERCIAL AND RESIDENTIAL WIRING 2

(Grade: 12 Credit: 3 Practical Arts)

Prerequisite: B or better average in Commercial and Residential Wiring 1

Students in their second year of the program will learn and practice advanced wiring techniques and both broaden and deepen their knowledge of the electrical trade. They will undertake advanced tasks, such as electrical remodels on commercial job-sites. Second year students will take the lead as job foremen on our jobsites and will be held to a higher level of expectation and performance criteria than the first-year students whom they supervise. Students in their second year will be expected to assist others in learning difficult concepts. Qualified students may be eligible for paid internships.

9601PA COMPUTER-AIDED DESIGN 1

(Grades: 10-12 Credit: 2 Practical Arts)

Prerequisite: C or better average in Integrated Math or Algebra 1

Dual credit may be available with Moberly Area Community College

Computer-Aided Design will provide opportunities for students to develop skills in using the latest CAD systems to solve a variety of technical problems. Students will be challenged to create both traditional prints along with the most advanced forms of 3D modeling and design. Students will learn the technical language and skills necessary to compete in today's demanding job market. Like engineers, architects and designers, students will be able to use their talents to design

and create. The class will utilize the latest Autodesk, mechanical, architectural, and animation software. Windows platform will be used. All students will develop a sample portfolio by the end of the year.

Follow-up: Computer-Aided Design 2; 3D Modeling and Animation; Civil Engineering and Architecture; Graphic Design and Desktop Publishing; Digital Video and Motion Graphics; Geospatial Technology

9602PA COMPUTER-AIDED DESIGN 2

(Grades: 11-12 Credit: 2 Practical Arts)

*Prerequisite: B or better average in Computer-Aided Design 1
Articulated college credit available*

Dual credit may be available with Moberly Area Community College

Learn advanced computer-aided skills using a CAD system to produce various types of graphic products. Each student will select areas of design specialization, using the following systems: Architectural Desktop and Revit; AutoCAD, Autodesk Inventor; 3D Studio Max, Z brush 3D Modeling; PhotoShop, and more. Through the semester, each student develops a portfolio of sample work completed in the course for prospective employers and/or post-secondary faculty review.

Follow-up: 3D Modeling and Animation; Civil Engineering and Architecture

9606PA 3D MODELING AND ANIMATION

(Grades: 11-12 Credit: 2 Practical Arts)

*Prerequisite: B or better average in Computer-Aided Design 1;
portfolio review; and instructor approval*

In this course, students will develop high-end, 3D visual skills. Students will learn basic animation, using 3D Studio Max through storyboarding, 3D modeling, lighting, texture mapping, and post-production editing. These skills are used in the fields of advertising, game design, movie effects (including character animation), aerospace design, automobile development, and architectural design. Through the semester each student develops a portfolio of sample work completed in the course for prospective employers and/or post-secondary faculty review.

Follow-up: Computer Aided Design 2; Civil Engineering and Architecture, Geospatial Technology

9610PA CIVIL ENGINEERING AND ARCHITECTURE

(Grades: 10-12 Credit: 2 Practical Arts)

Prerequisite: C or better average in Integrated Math 1 or Algebra 1

Articulated college credit available

Dual credit may be available with Moberly Area Community College

This course provides an overview of the fields of Civil Engineering and Architecture, while emphasizing the interrelationship and interdependence of both fields. The Civil Engineering and Architecture program will provide opportunities for students to develop skills using the latest CAD systems. Students will utilize the latest cutting edge technology, to solve real world problems and communicate solutions through projects and activities. Challenges include both traditional prints along with developing skills in survey and instrument reading. Software examples include AutoCAD, Civil 3D, Land Desktop, Map 3D, Arch Desktop and more.

Follow-up: Civil Engineering and Architecture 2; Computer-Aided Design; Geospatial Technology

9611PA CIVIL ENGINEERING AND ARCHITECTURE 2

(Grades: 11-12 Credit: 2 Practical Arts)

Prerequisite: B or better average in Civil Engineering and Architecture 1

This course builds upon the knowledge gained in Civil Engineering and Architecture to equip graduates to face the challenges of modern engineering practice. The major emphasis of the course will be the planning, analysis, design and construction of civil engineering, survey, and architectural projects. Focus will be on the design and knowledge to solve real world problems using exercises, individual and group projects with modern engineering, CAD, and survey equipment.

9621PA GEOSPATIAL TECHNOLOGY (Grades: 10-12 Credit: 1 Practical Arts)

Prerequisite: C or better average in Integrated Math 1 or Algebra 1

GIS analysts - like other Geospatial Technology professionals - can be found working in various local, state, and federal government agencies, as well as in a wide-range of related scientific and technical fields, such as agriculture and soils, archeology, biology, cartography, ecology, environmental sciences, geography, geology, hydrology and water resources, land appraisal and real estate, medicine, transportation, urban planning and development, and more. Students will explore many different facets of the geospatial world and how it relates. The equipment such as computers, GPS units, cameras and digital printers are rated some of the best in the field. Students will work with this equipment both inside the classroom and outside. The students will use data that they obtain from different resources and will also collect their own data during outside activities. Opportunities to work with local emergency services on events such as search and rescue training may be possible.

Follow-up: Geospatial Analysis; C++ Programming; Computer-Aided Design; Civil Engineering and Architecture

9622PA GEOSPATIAL ANALYSIS (Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: C or better average in Geospatial Technology

Students will continue to expand their familiarity with the software, hardware and collection of data. They will have an opportunity to work with field exercises collecting and collaborating with other persons to provide different products. Examples of the information would be to determine where high crime is, find pollutants in stream water, do analysis of health-related issues, determine a project for "green" results and other issues that may be presented to the students for class projects. Students will work on setting up and maintaining web applications on a GIS server, maintaining data and working with outside agencies for collection of data, and maintaining data for our GIS users.

Follow-up: Geospatial Applications; C++ Programming; Computer-Aided Design 1; Civil Engineering and Architecture

9700PA LASER TECHNOLOGY (Grades: 10-12 Credit: 1 Practical Arts)

Prerequisite: None

This class introduces students to photonics, one of the fastest growing technical fields. In this class, students will use lasers and fiber optics in a practical setting and explore the many ways these technologies impact their lives. Students will use lasers for measurement, communication and audio/video enhancement; they will create holograms, engrave, develop light shows, design security systems and examine forensic and other engineering applications. Students will be given the opportunity to create 3D computer graphics as holograms. Students will gain a deeper understanding of the use of light and color as they explore a variety of imaging techniques. There are several fieldtrips planned to observe laser

applications. Through SPIE, a student chapter of a professional organization, students will explore cutting edge projects and communicate with students and professors around the world.

Follow-up: Photonics 1 and 2; Electronics; Laboratory Foundations; 21st Century Life Sciences

9701PA PHOTONICS 1 (Grades: 11-12 Credit: 2 Practical Arts)

Prerequisite: C or better average in Algebra 1 or Integrated Math 2

Articulated college credit available

Study one of the foremost emerging technologies, photonics. This light-based technology explores the physical control of light. The demand for photonics technicians is one of the fastest growing of all technical positions. The use of high-tech lab equipment will include an in-depth study of the physics of photonics, of how lasers work and of optics, which control light. Students will have many opportunities to create personal projects.

Follow-up: Photonics 2; Electronics; Laboratory Foundations; 21st Century Life Sciences

9702PA PHOTONICS 2 (Grade: 12 Credit: 2 Practical Arts)

Prerequisite: C or better average in Photonics 1

Articulated college credit available

The demand for precision and efficiency is changing the way industry is using photonic and electro-optical technologies. The laser is now the tool of choice for tasks from picture-hanging in residences to major construction projects to hundreds of scientific applications. Many uses will be studied in this class as we look in-depth at various aspects of photonics, the development of photonic solutions for real-world applications, geometric optics, and non-linear optics.

9750PA ELECTRONIC ESSENTIALS (Grades: 10-12 Credit: 1 Practical Arts)

Prerequisite: C or better average in Integrated Math 1 or Algebra 1

Our world has become reliant on electronics; students who are interested in engineering, computer networking, lasers/photonics or automotive technology should take this course. During the semester, students will build amplifiers, counters, timers, and power supplies which are the essential components of all electronic devices. Students will also use digital and analog test equipment to analyze the electronic circuits they construct in class. This course also prepares students with knowledge and skills needed to be an informed consumer.

Follow-up: Electronics 2; Pro-Audio; Robotics; Smarthouse – Smartgrid; A+ IT Essentials; Networking Exploration; Introduction to Lasers; Photonics; Automotive Technology

9751PA ELECTRONICS 1 (Grades: 10-12 Credit: 2 Practical Arts)

Prerequisite: C or better average in Integrated Math 1 or Algebra 1

Dual credit may be available with University of Central Missouri

Electronics 1 is the foundation for understanding and using computers, digital music systems, auto audio systems, and wireless communications. Students will learn about direct current, alternating current, semiconductors and digital electronics as they build and explore many hands-on projects. This class will prepare students to be knowledgeable users of technology and provide the basic skills needed to design, build, and troubleshoot most electronic devices.

Follow-up: Electronics 2; Pro-Audio; Robotics; Smarthouse – Smartgrid; A+ IT Essentials; C++ Programming; Networking Exploration; Introduction to Lasers; Photonics; Automotive Technology

9752PA ELECTRONICS 2

(Grades: 11-12 Credit: 2 Practical Arts)

Prerequisite: B- or better average in Electronics 1 or Electronic Essentials

Articulated college credit available

Dual credit may be available with University of Central Missouri

Electronics 2 expands your knowledge of DC, AC, semiconductor, digital electronics, and embedded processors with more advanced projects than those experienced in Electronics 1. As an advanced student you will learn to use your knowledge and skills to control everything from robots to lightshows.

Follow-up: Electronics 3; Pro-Audio; Robotics; Smarthouse – Smartgrid; A+ IT Essentials; Networking Exploration; C++ Programming; Introduction to Lasers; Photonics; Automotive Technology

9753PA ELECTRONICS 3

(Grade: 12 Credit: 2 Practical Arts)

Prerequisite: B- or better average in Electronics 2

Articulated college credit available

Dual credit may be available with University of Central Missouri

Electronics 3 students spend the first semester learning microprocessors through applications. During the second semester, students choose capstone projects, allowing them to use what they have learned in the entire electronics sequence to design, build, and test a true prototype electronic product.

9755PA PRO-AUDIO

(Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: B- or better average in previous CACC Electronics class

You want to design a kickin' stereo system, make great live recordings, or know the leading edge in the audio industry? Then take this class. Pro-audio covers audio systems from automotive installs to home theater to stage productions; and it teaches fundamentals of sound, sound recording, sound processing, and sound reproduction. When you create your designs and recordings, you'll be using industry standard software for enclosure design, speaker testing, and multi-track recording.

Follow-up: Electronics 2 or 3; Smarthouse – Smartgrid; Robotics

9756PA ROBOTICS

(Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: B- or better average in previous CACC Electronics class

Robotics are used to extend mans capabilities commercially, industrially, militarily and even in households. They are used where ever the task is too hot, too heavy or too hazardous for humans. They don't get sick, angry or feel pain. Robots are the cornerstone of many automated assembly processes. The objective of this course is to use a hands-on approach to introduce the basic concepts in robotics. Course information will be tied to lab experiments in sensors, processors, and actuators. Students will experience working with several different types of robots and control systems.

Follow-up: Electronics 2 or 3; Smarthouse – Smartgrid; Pro-Audio

9757PA SMARTHOUSE – SMARTGRID

(Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: B- or better average in previous CACC Electronics class

As you pull into your driveway, your house lights turn on and your security system goes into standby. When you open the door, your stereo turns on and plays your favorite music, and your house greets you. All these aspects of home automation, security, and communication—the integral components of Smarthouse technology—are available to students in this course. Students will experiment with Smarthouse and Smartgrid designs, use industry standard control systems/protocols. Students will also learn alternative energy systems, energy audits, and cost analysis for conservation of expenses.

Follow-up: Electronics 2 or 3; Pro-Audio; Robotics

FAMILY AND CONSUMER SCIENCES

Practical Arts Credits
Career Path: Human Services

7500PA CHILD DEVELOPMENT

(Grades: 10-12 Credit: 1 Practical Arts)

Prerequisite: None

Follow up Courses: *Early Childhood Careers, Introduction to Teaching Professions*

Do your future plans include a career working with young children? Then this course is for you! You'll learn about ages and stages and areas of development. This class includes a project-based portfolio.

7505PA PARENTING

(Grades: 10-12 Credit: ½ Practical Arts)

Prerequisite: None

Follow-up Course: *Child Development*

Learn how 1+1 = 3 not 2. Understand the role of what it means to parent in today's society by examining the decision to become a parent. Topics include; conception, prenatal development, childbirth, the four parenting styles, and the needs of humans from infancy through adolescents in each area of development.

7520PA TEEN AND SOCIAL ISSUES

(Grades: 10-11 Credit: ½ Practical Arts)

Pre: None

Follow-Up Courses: *Parenting, Introduction to Teaching Professions*

What makes you tick? Find out why you act and react to situations the way you do. Explore what makes you tick and why you choose the friends you do. Get the down-low on things that are really important to you; drugs, sex ed., friends, family, love, stress, choices and their outcomes, as well as hearing from those who have "been there and done that."

7535PA1 CREATIVE CUISINE 1

(Grades: 10-12 Credit: ½ Practical Arts)

Prerequisite: Any FACS class

Follow up Courses: *Culinary Arts I*

Students should not be enrolled in this course if they are currently enrolled in Culinary Arts 1 or have completed Culinary Arts 1.

Hike up the food guide pyramid using proper nutrition and food preparation techniques! The appropriate use of equipment will be focused toward family settings. Group work and cooking labs are a major component of this class; therefore, attendance is imperative. This course can be taken first semester and Creative Cuisine 2 second semester.

7537PA2 CREATIVE CUISINE 2

(Grades: 10-12 Credit: ½ Practical Arts)

Prerequisite: *Creative Cuisine 1*

Follow-up Courses: *Culinary Arts I*

Students should not be enrolled in this course if they are currently enrolled in Culinary Arts 1 or have completed Culinary Arts 1.

Travel around the world using your taste buds! Creative Cuisine 2 has a strong emphasis on regional and international cuisine. Cultural heritage and its effect on foods and food preparation will be explored. Group work and cooking labs are a major component of this class; therefore, attendance is imperative. Creative Cuisine 1 must be taken before this class.

7540PA FASHION, FABRIC AND CONSTRUCTION 1

(Grades: 10-12 Credit: 1 Practical Arts)

Prerequisite: None (no sewing experience required)

Follow up course: *Fashion, Fabric and Construction 2*

During the course, student will learn the basics of fashion design and sewing construction. The class will explore design elements in fashion, human body shapes and body images. In addition students will construct garments that may include pants, shirts, skirts and dresses. Students will have the opportunity to participate in a service project sewing for babies at the University of Missouri Children's Hospital.

7545PA FASHION, FABRIC AND CONSTRUCTION 2

(Grades: 10-12 Credit: 1 Practical Arts)

Prerequisite: B or higher in *Fashion, Fabric and Construction 1* or above average sewing skills including all of the following: *buttonholes, necklines, sleeves, zippers, and waistlines.*

Follow up Course: *Apparel Merchandising, Interior Design*

During the course, student will learn the basics of fashion design and sewing construction. The class will continue the exploration of design elements in fashion, human body shapes and body images. In addition students will construct garments that may include pants, shirts, skirts and dresses. Students will have the opportunity to participate in a service project sewing for babies at the University of Missouri Children's Hospital.

7560PA APPAREL MERCHANDISING

(Grades: 10-12 Credit: ½ Practical Arts)

Prerequisite: None

Follow up courses: *Fashion, Fabric and Construction 1, Any Business and Marketing class*

This course focuses on the fashion industry as it relates to the world of business. Students will explore apparel production, fashion trends, fashion designers, and career exploration in the fashion industry. Students examine fashion cycles, their own fashion timeline, and determine their color season. Complete challenging and fun hands-on projects that reinforce student learning.

7565PA INTERIOR DESIGN 1

(Grades: 10-12 Credit: ½ Practical Arts)

Prerequisite: None

Follow-up Course: *Interior Design 2, Intro to Art, Computer-Aided Design, Civil Engineering and Architecture, Fashion, Fabric and Construction*

Students will learn the basics of researching and utilizing design resources, housing choices, furniture styles, floor plan drafting, scaled drawings and furniture placement. Principles and elements of design will be incorporated with many individual student driven projects that demonstrate design skills. Students will learn how to use an architectural ruler, design templates, vellum and graph paper.

7570PA INTERIOR DESIGN 2

(Grades: 10-12 Credit: ½ Practical Arts)

Prerequisite: *Interior Design 1* with a B or higher

Follow up Courses: *Intro. To Art, Computer-Aided Design, Civil Engineering and Architecture*

Students will continue to advance their knowledge and application of architecture design skills through; research, making use of professional organizations, identifying design careers, and developing commercial spaces. Various architecture styles, techniques, and designs will promote student creativity.

9215PA INTRODUCTION TO TEACHING PROFESSIONS**(Grades: 10-12 Credit: 1 Practical Arts)**

Prerequisite: C or better average in English 9 or above; C or better average in Algebra 1 or Integrated Math 1; AND record of good citizenship and attendance

This course will introduce students to the teaching profession, PreK-12. Students will explore the requirements for teaching credentials, teacher shortage areas, daily working conditions and extra duties, wages and benefits, and the projected changes in this profession for the next decade.

Follow-up: Foundations of Teaching and Instruction, Early Childhood Careers, Child Development

9216PA FOUNDATIONS OF TEACHING AND INSTRUCTION**(Grades: 11-12 Credit: 1 Practical Arts)**

Prerequisite: B or better average in Introduction to Teaching Professions

This course will provide students with an overview of the historical, philosophical, developmental and psychological foundations of American education. Students will relate the application of psychological principles to teaching, learning, assessment, and the educational practices in the K-12 classrooms. Students will be presented with an overview of various instructional methods, direct instruction, discovery learning, cooperative learning, discussion, and problem solving. Inquiries will extend to the factors that influence the learning environment as we explore motivational theory, classroom management, and behavior management.

Follow-up: Teaching Professions Internship

9211PA EARLY CHILDHOOD CAREERS**(Grades: 11-12 Credit: 1 Practical Arts)**

Prerequisite: B or better average in Introduction to Teaching Professions

Dual credit may be available with University of Central Missouri

Are you interested in an early childhood classroom like Title I, Head Start, or preschool? Perhaps being a childcare provider, certified child life specialist, psychologist, sociologist, social worker, or nanny interests you. If so, then enroll in this course and learn to plan and to implement developmentally appropriate experiences with young children while you interact with preschool age children in the CPS Title I program. This course provides preschool contact hours and begins work towards the Child Development Associate (CDA). The CDA credential helps open doors to employment opportunities in early childcare and education in private and public settings.

Follow-up: Teaching Professions Internship

9217PA TEACHING PROFESSIONS INTERNSHIP**(Grade: 12 Credit: 2 Practical Arts)**

Prerequisite: B or better average in Foundations of Teaching and Instruction or Early Childhood Careers

This course will provide high school seniors interested in the field of education, the opportunity to gain experience in a classroom setting by interning in local K-9 classrooms under the direct supervision of a "host teacher." Students will observe instruction, classroom management, and teaching strategies. They will work one-on-one with students and implement classroom lessons as well as perform other duties as assigned. Students will gain experience, which will allow them to reflect on their desire to become a teacher and the realities of the classroom.

9260PA CORE ESSENTIALS OF FIRE FIGHTING AND PUBLIC SAFETY**(Grades: 10-11 Credit: 1 Practical Arts)**

Prerequisite: None

Students will be introduced to the world of fire fighters, police, EMTs and other emergency responders. A basic understanding of the skills necessary to be a successful first responder or security professional will be included, as well as training for crisis response and planning. Other units include basic first aid and care of patients in the field, ethics, and the legal system. Students will develop a career plan in the field of public safety and security. Students will look into public safety and security through informative field trips, guest speakers, team demonstrations and equipment typically operated by fire fighters and law enforcement. Students will be required to successfully complete the physical activities for this course, some of which are strenuous.

9951PA CULINARY ARTS 1**(Grades: 10-11 Credit: 2 Practical Arts)**

Prerequisite: None

Welcome to the world of cooking. This class will give you the start for skills necessary to become certified with the American Culinary Federation as a Certified Culinarian. You can also be Nationally Certified in sanitation with the ServSafe certification. We will explore every facet of culinary arts, as well as learn the vital practice of quality food prep.

Follow-up: Culinary Arts 2; Baking and Pastry Arts; Business Management and Ownership; Marketing; Digital Media; Accounting; Floral and Plant Design

9952PA CULINARY ARTS 2**(Grades: 11-12 Credit: 3 Practical Arts)**

Prerequisite: C or better average in Culinary Arts 1
Articulated college credit available

Welcome to the world of professional cooking. This class will help you expand your skills that are necessary to become certified with the American Culinary Federation as a certified Culinarian. You can also be Nationally Certified in sanitation with the ServSafe certification. We will use all prior knowledge from Culinary I as well as new advanced techniques such as sausage making and other charcuterie and studies of regional and international cuisines while applying them to an actual production setting. The class runs a buffet and restaurant periodically throughout the year.

Follow-up: Baking and Pastry Arts; Business Management and Ownership; Marketing; Digital Media; Accounting; Floral and Plant Design

9953PA BAKING AND PASTRY ARTS**(Grades: 11-12 Credit: 2 Practical Arts)**

Prerequisite: C or better average in Culinary Arts 1

Welcome to the world of professional baking. This class will give you the skills necessary to become certified with the American Culinary Federation as a Certified Pastry Culinarian. We will explore every facet of Baking and Pastry, including the ingredients, methods, and techniques of making hearth breads, tarts, custards, cakes, and confections in addition to learning the vital importance of professionalism in the workplace.

Follow-up: Culinary Arts 2; Business Management and Ownership; Marketing; Digital Media; Accounting; Floral and Plant Design

FINE ARTS

Fine Arts Credit

ART

Career Path: Arts & Communication

Introductory Level Art Courses

8115FA ART BASICS

(Grades: 10-12 Credit: ½ or 1)

Designed for beginning art students, this course explores a variety of different 2D and 3D art forms, styles and materials. This class focuses on art making, but research, reading and writing will be a component. This course does not fulfill any prerequisites for any advanced art classes. This class may be taken for a semester as a ½ credit or for a full year for 1 credit.

8114FA ART 1: FOUNDATIONS (previously offered as Introduction to Art)

(Grades: 10-12 Credit: 1)

Art I: This course will benefit the student who enjoys art making and may want to continue into an advanced art class after completion. Art I: Foundations is a general art course which encourages students to discover the meaning, use, and influence of art in their daily lives. It offers opportunities for self-expression and personal development through units in drawing, painting, sculpture, decorative arts and design. In each of these areas the student will be exposed to aesthetics, art history, and art criticism with an emphasis on art production. Art I: Foundations is a prerequisite for all advanced level art courses. **Additional work outside of class is a required expectation.**

Advanced Level Art Courses

8133 FA ART 2: STUDIO ART

(Grades: 10-12 Credit: 1)

Prerequisite: B or higher grade in Art I: Foundations or teacher recommendation.

Studio art combines the variety of projects and media seen in Art I: Foundations with a sophistication of ideas and processes expected of an advanced art class. Students engage in drawing, painting and mixed media with an emphasis on creative problem solving and further developing a passion for art. **Additional work outside of class is a required expectation.**

8128 FA ART 2: 3-D DESIGN- CERAMICS, SCULPTURE AND MIXED MEDIA

(Grades: 10-12 Credit 1)

Prerequisite: B or higher grade in Art I: Foundations or 3D teacher recommendation.

This course is an introduction to three dimensional (3D) form and space. In this course students will work with a variety of building materials with an emphasis in clay. Ceramics focuses on hand-building and using surface decoration with some exposure to the potter's wheel. Students will create both sculptural objects and functional pieces. They will also be exposed to a variety of three dimensional building techniques and work with materials such as wood, plaster, and found objects. **Additional work outside of class is a required expectation.**

8132FA 3-D DESIGN 2: ADVANCED EXPLORATION (Grades: 11-12 Credit 1)

Prerequisite: B or higher grade in 3-D Design or 3-D Design teacher recommendation.

3-D Design 2 is a continuation of 3-D Design with a higher expectation and use of more advanced techniques. This course is designed to explore further three dimensional building

techniques and materials, contemporary artists, and allow students to independently develop their skills with a specific material. Students should have superior 3-D knowledge and skills and be self-motivated. **Additional work outside of class is a required expectation.**

8131FA GRAPHIC DESIGN

(Grades: 10-12 Credit: 1)

Prerequisite: B or higher grade in Art I: Foundations or teacher recommendation.

This Fine Arts course explores the principles and elements of design in a variety of media. Projects are hand rendered along with some computer generated and mixed-media. Students will explore visual composition, typography, information graphics, product design, and digital and print production processes. Color theory, design theory and visual problem solving are also addressed. **Additional work outside of class is a required expectation.**

Photography 1-2 courses: It is highly recommended that students have their own 35mm SLR camera, since there are a limited number of school cameras available for check out. Students will be held financially liable for the loss or damage to any school photography equipment.

8119FA PHOTOGRAPHY 1

(Grades: 11-12 Credit: 1)

Prerequisite: B or higher grade in Introduction to Art or Photography teacher recommendation

This course includes instruction in basic camera handling, black and white film development, printing techniques, and presentation. Photo history, criticism, and aesthetics are presented. Students will compile a photo notebook and a portfolio. While photojournalism is addressed, photography as a fine art is emphasized. **Additional work outside of class is a required expectation.**

8120FA PHOTOGRAPHY 2: ADVANCED EXPLORATION

(Grades: 11-12 Credit: 1)

Prerequisite: B or higher grade in Photography 1 or Photography teacher recommendation

Photography 2 - Advanced Exploration course is designed to further knowledge in photography and to provide the student with a variety of materials and techniques. Contemporary photographers are addressed along with criticism, aesthetics, and photography history. The student will compile a portfolio upon completion of the course. **Additional work outside of class is a required expectation.**

College Level Art Courses

8135FA AP STUDIO ART 1

(Grades: 11-12 Credit: 1)

Prerequisite: B or higher grade in Introduction to Art and an intermediate art course or AP Art teacher recommendation

This advanced course emphasizes the creative and technical process in drawing, painting, and design with discussion of artists, art movements, philosophy, art vocation, scholarships, and schools. This intensive course requires superior skills and self motivation to produce a portfolio of 20- 40 pieces, which may be submitted for review with the possibility of receiving college credit. The course will benefit anyone interested in studying art on a more advanced level but is especially designed for the student who is planning a career in art or pursuing an art interest in post secondary studies. **Additional work outside of class is a required expectation.**

8136FA AP STUDIO ART 2

(Grade: 12 Credit: 1)

Prerequisite: B or higher grade in AP Art I or AP Art teacher recommendation

This course is a continuation of the first year with higher expectations of students and more advanced techniques. This is not a course for the casually interested; it requires superior skills and self-motivation. The second year allows students to submit a second portfolio (of 20-40 pieces) with the possibility of receiving three (3) additional units of college credit. The discussion of artists, art movements, philosophy, art vocation, scholarships, and schools will again be a part of this course. The course will benefit anyone interested in studying art on a more advanced level but is especially designed for the student who is planning a career in art or pursuing an art interest in post secondary studies. **Additional work outside of class is a required expectation.**

8140FA AP ART HISTORY

(Grades: 11-12 Credit: 1)

In this course, students examine major forms of artistic expression from the ancient world to the present, and from a variety of cultures. Students learn to look at and analyze works of art within their historical context, and to articulate what they see or experience in a meaningful way. Students who have been successful in other courses in the humanities, such as history or literature, or in any of the arts are encouraged to enroll. Success in the course should give the students the knowledge and background necessary to gain credit for passing in the Advanced Placement Art History Exam.

HUMANITIES

Career Path:
Arts and Communication

8580FA HUMANITIES

(Grades: 10-12 Credit: 1)

Humanities is a wise choice for students interested in a wide spectrum of fine arts offered in one (1) award-winning curriculum. In this course, students will learn to further appreciate painting, sculpture, music, drama, architecture, and world religions, areas that provide a better understanding of self as well as many cultures both past and present. Understanding of the arts and religion will be enhanced through several field trips. While Humanities is especially valuable as college preparation, it can also be an excellent preparation for a lifetime appreciation of the arts.

MUSIC

Career Path:
Arts and Communication



8339FA BAND

(Grades: 10-12 Credit: 1)

**Varsity Band
Concert Band
Wind Ensemble**

Prerequisite: Prior band experience and/or audition MSHSAA eligibility – pass 3 credits previous semester

The band program offers opportunities in the study and performance of various types of instrumental music. Membership is divided among the Concert Band and the Wind Ensemble, with placement determined by the directors. The repertoire of the bands consists of traditional and contemporary band music. Numerous small ensembles provide opportunities for the study of chamber music. Members of the Wind Ensemble are required to participate in the District and State

Music Festivals as members in ensembles. Solo preparation is encouraged. Jazz ensembles are available for interested band members. Assembly and pep bands provide music for school activities. Development of individual musicianship is emphasized throughout the year. Members of both band classes participate in the Marching Band, which rehearses Tuesday-Friday from 6:30-7:35 a.m. and Tuesday from 6:30-8:30 p.m. during the first quarter of the school year. The Marching Band performs in field competitions, parades, and half-time shows.

8354FA STRING ORCHESTRA

(Grades: 10-12 Credit: 1)

Prerequisite: Prior orchestra experience and/or audition MSHSAA eligibility – pass 3 credits previous semester

The String Orchestra offers opportunities in the study of all orchestral string instruments. The repertoire for the string orchestra consists of traditional and contemporary string music with opportunities for some full orchestra experience. Several performances are given throughout the year, including concerts, musicals, district, and state music festivals. Some of these require rehearsal time outside the school day. District and state music festivals provide opportunities for small ensemble and solo performance. Students who successfully audition are eligible for the annual Missouri All-State Orchestra. Development of individual musicianship is emphasized throughout the year.

8430FA CHOIR

(All students preregister under this number; auditions will be arranged.) *MSHSAA eligibility – pass 3 credits previous semester*

WOMEN'S CHORUS

(Grades: 10-12 Credit: 1)

Prerequisite: Audition

Women's Chorus offers female students the opportunity to participate in a vocal music ensemble through the study and performance of choral literature for treble voices. The fundamentals of music and singing are presented in a logical progression, perfect for the beginning or experienced singer. The basics of music reading are emphasized. Styles of music range from early Renaissance to 21st century compositions. At least three (3) concerts will be presented outside of the school day.

MEN'S CHORUS

(Grades: 10-12 Credit: 1)

Prerequisite: Audition

Men's Chorus is a brand new Hickman choir, offering male students the opportunity to participate in a vocal music ensemble through the study and performance of choral literature for male voices. The fundamentals of music and singing are presented in a logical progression, perfect for the beginning or experienced singer. The basics of music reading are emphasized. Styles of music range from early Renaissance to barbershop and pop. At least three (3) concerts will be presented outside of the school day.

BEL CANTO SINGERS

(Grades: 10-12 Credit: 1)

Prerequisite: Audition

Bel Canto is a selective, auditioned women's choral ensemble comprised of experienced sophomores, juniors, and seniors. Several concerts for school and community events occur throughout the year. While emphasis is placed on madrigal, chamber, and concert literature for treble voices, knowledge of the voice for solo singing is also taught. At least three (3) concerts will be presented outside of the school day, and participation in the spring district music festival is required. Any additional rehearsals and performances are required.

A CAPPELLA SINGERS

(Grades: 11-12 Credit: 1)

Prerequisite: Audition

A Cappella Singers is a selective, auditioned choir of men and women who study advanced musical techniques through the preparation and performance of quality choral literature. Sight reading skills, tonal independence, and advanced vocal technique are taught and expected of each singer. Numerous concerts are given throughout the year, both outside of and during the school day, and participation in the spring district music festival is required. Due to the choir's rigorous performance schedule, extra rehearsals outside of the school day are also required.

8511FA MUSIC THEORY 1

(Grades: 10-12 Credit: 1)

Prerequisite: Enrollment in performing musical ensemble or pre entrance exam

Music Theory 1 is designed to provide students with fundamental skills in tonal harmony and ear training. Emphasis will be placed upon historical perspectives, notation, rhythm, harmony, ear training, scales, modes, and basic composition. Computer applications regarding music notation and composition will be utilized.

8513FA AP MUSIC THEORY

(Grades: 10-12 Credit: 1)

Prerequisite: Music Theory 1 or permission of instructor

AP Music Theory is a continuation and extension of the skills acquired in Music Theory 1. Emphasis will be placed on 19th and 20th century music theory and composition. The curriculum will assist students in preparation for the Advanced Placement exam in Music Theory.

8450FA MUSICAL PRODUCTIONS 1

(Grades: 10-12 Credit: 1)

This course provides basic study in theatre, including the basics of vocal technique, character development, staging, and dance. Students will spend a large portion of class time performing in small ensembles and as soloists, culminating in a performance project at the end of second semester.

8451FA MUSICAL PRODUCTIONS 2

(Grades: 11-12 Credit: 1)

Prerequisite: Musical Productions 1 and/or audition

This course is a continuation of Musical Productions 1. The study of the history of musical theatre is a significant component of this course. Topics will include: advanced character development, acting, and singing. Class members will spend a large portion of the time in the actual production of a musical in conjunction with Musical Productions 3. Out-of-class rehearsals will be required.

8452FA MUSICAL PRODUCTIONS 3

(Grade: 12 Credit: 1)

Prerequisite: Musical Productions 2 and/or audition

This course is a continuation of Musical Productions 2 and emphasizes aspects of directing. Topics will include: script analysis, set design, costuming, rehearsal planning, and direction of scenes. Class members will spend a large portion of the time in the actual production of a musical in conjunction with Musical Productions 2. Out-of-class rehearsals will be required.

8514FA INTRODUCTION TO MUSIC

(Grades: 10-12 Credit: 1)

This course offers the student a background in the fundamentals of music. Musical notation and structure will be studied, as will musical styles from many historical periods. The student will have the opportunity to use computer applications in musical notation and sequencing. This course will help the novice become acquainted with the language of music, as well as the experienced musician who wants to learn computer applications in music.

THEATRE/FILM

Career Path: Arts and Communication

8216FA ACTING 1

(Grades: 10-12 Credit: 1)

This course offers students an opportunity to investigate and develop a sound foundation of acting skills and techniques. By participating in improvisational drama, play reading and discussions, monologues and structured duet and group acting scenes, students will focus on developing meaningful characterizations. Students will also examine aspects of dramatic criticism. Representative literary sources from the classics to contemporary plays will be selected for study and performance. Students will present public performances during the school day. In addition, students are required to attend at least one live performance outside of school per quarter.

8217FA ACTING 2 and 3

(Grades: 11-12 Credit: 1)

Prerequisite: Grade C or better in Acting 1 or a Musical Productions class or permission of instructor

This course is designed for the junior or senior interested in the total creative experience of staging, performing and publicizing theatrical productions. In addition to examining and applying varied acting techniques, students will investigate such theatrical skills as interpretation, analysis, cutting, blocking, and staging. Published sources will include plays representative of a variety of different theatrical styles. Public presentations include a scene recital and a full length play. Group rehearsal time outside of the school day is required.

8252FA FILM STUDY

(Grades: 11-12 Credit: 1)

This course is designed for students who want to know more about film both from the aspect of consumer as well as the aspect of behind the camera. This course is a chronological study of film with an emphasis on the various genres of film. Participants in Film Study respond to films viewed in class in a variety of written and spoken activities. In addition to studying film language and genres, students create various short films during the course of each semester with a major project filmed outside of class each semester. Each semester culminates in a film festival of student work.

8218FA DIRECTING PRACTICUM

(Grades: 11-12 Credit: 1/2)

Prerequisite: Permission of the practicum instructor-petition into the class-limit of six students per spring semester working on an extracurricular basis. Course is NOT offered in the fall.

Students taking this semester-long course will choose, direct, and present a one-act play using high school students as actors. Working with the instructor, the student will read plays and select one for presentation, analyze the script for artistic and technical details, conduct auditions, organize and conduct rehearsals, and finally present the play for public performance. The play will be evaluated by a panel of three qualified adults.

FOREIGN LANGUAGE

Language Art Credits

Career Path: Arts and Communication, and Human Services

The University of Missouri and Truman State University, among others, require two (2) levels of foreign language for entrance, but you DO NOT need a foreign language to graduate from Hickman. Most Missouri public four-year colleges recommend two (2) levels of a Foreign Language for admission (See page 2 for college admissions requirements). Foreign language acquisition is a process building on previous knowledge. It takes disciplined study habits over a long period of time to learn another language. DAILY HOMEWORK, CLASS PARTICIPATION, AND CONSISTENT ATTENDANCE are essential for success in any foreign language class.

Upon completion of a level four (4) language course, many colleges (e.g. MU) may waive the foreign language requirement or students may be able to enroll in an intermediate-level college course and receive college credit for high school work. Students must check with colleges they plan to attend about advanced credit policies.

3020FL FRENCH 1

(Grades: 10-12 Credit: 1)

Prerequisite: C or higher grade in English and signature of English teacher on enrollment form

The course will use an active approach to learning French. Skills in listening, speaking, reading, and writing will be developed. Students will learn pronunciation, basic vocabulary, and structure through a variety of interactive activities including role-play, paired exercises, and personalized questions to encourage active participation and communication. Students are also introduced to the geography, customs, and culture of France and of the French-speaking world.

3030FL FRENCH 2

(Grades: 10-12 Credit: 1)

Prerequisite: French 1

This course reinforces and extends the listening, speaking, reading, and writing skills learned in French 1 with an emphasis on mastery. There is a continuing focus on communication and active participation as well as further study of the geography, customs, and culture of the French-speaking world.

3035FL FRENCH 2 ADVANCED

(Grades: 10-12 Credit: 1)

Prerequisite: Recommendation of French 1 teacher

The course work is similar to French 2 in that it reviews vocabulary and grammar from French 1, and continues the development of reading, writing, and conversational skills. The rate of learning is slightly faster, and more activities and supplementary materials are included. This is **not** an offering for students who have completed French 2.

3040FL FRENCH 3

(Grades: 10-12 Credit: 1)

Prerequisite: French 2

This course further advances the basic skills with special emphasis on speaking as a form of communication and reading. Activities include grammar review, oral comprehension, and grammar exercises with the language lab and videos, computer drill, guided composition, and reading of edited material. The majority of instruction will be in French.

3045FL FRENCH 3 ADVANCED

(Grades: 10-12 Credit: 1)

Prerequisite: Recommendation of French 2 teacher

This course is similar to French 3 in that it further advances basic skills. While special emphasis is placed on speaking and reading, the rate of learning is at a slightly faster pace and activities are usually more challenging than in regular French 3. This does not mean more homework, but this course does require self-motivation and self-discipline. Students who have taken French 3 **should not** enroll in this class. The majority of instruction will be in French.

3060FL FRENCH 4/5: SURVEY OF CIVILIZATION

(Grades: 11-12 Credit: 1)

Prerequisite: French 3

The history, culture, and literature of France are surveyed, starting from the age of prehistoric man and ending with the 19th century. The richness and diversity of the French contribution to the arts are emphasized with films, internet resources, and guest speakers. The majority of instruction will be in French.

3070FL FRENCH 4/5: TOPICS

(Grades: 11-12 Credit: 1)

Prerequisite: French 3, with recommendation of the French 3 teacher

This course continues to develop language skills through extensive reading and discussion of modern France: the family, young people, the education system, the government, music, and the cinema. Formal grammar study is integrated into oral and written activities dealing with these themes. The successful student will be highly motivated and self-disciplined. The majority of instruction will be in French.

3050FL FRENCH 4/5: ADVANCED READING AND EXPRESSION

(Grades: 11-12 Credit: 1)

Prerequisite: French 3, with recommendation of the French 3 teacher

This course consists of extensive reading and continues a formal grammar study. Cultural and historical aspects of French life are studied as they are encountered in readings of poems, short stories, and articles which are chosen according to the level of proficiency of the students. Students will improve both oral and aural skills through class discussions, laboratory exercises, viewing of films/DVD's, and classroom activities. Written expression will be emphasized in short answer, resume and retelling of materials read as well as in reaction papers.

3080FL ADVANCED PLACEMENT FRENCH

(Grades: 11-12 Credit: 1)

Prerequisite: French 4/5; or recommendation of French 3 teacher

Designed for the student with a strong interest in foreign language who has excellent communication skills in French, the course will provide an in-depth study of grammar and vocabulary. In addition, the course will emphasize correct oral expression through discussion of selected readings and current events. Successful completion of the College Board Advanced Placement examination in French should allow the student to receive college credits and/or advanced standing. The majority of instruction will be in French.

Co-curricular activities: National French Honor Society membership is available after French 3 to those maintaining high grades in French.

3100FL GERMAN 1**(Grades: 10-12 Credit: 1)***Prerequisite: C or higher grade in English and signature of English teacher on enrollment form*

The course is designed to develop basic listening, speaking, reading, and writing skills. Vocabulary, language structures, and pronunciation are taught through the use of the text, CD's, and classroom conversation. History and culture with emphasis on the life of present-day German youth are taught with the help of readings and discussion.

3110FL GERMAN 2**(Grades: 10-12 Credit: 1)***Prerequisite: C or higher grade in German 1*

The course will continue with the basic skills learned in German 1. Additional vocabulary and grammar will be taught and the use of German in classroom conversation will be increased. Study of German culture with emphasis on modern Germany will be continued.

3120FL GERMAN 3**(Grades: 10-12 Credit: 1)***Prerequisite: C or higher grade in German 2*

This course consists of extensive reading and discussion of materials in German. Some historical and social/cultural aspects of German life will be covered. Several short stories and poems will be read and discussed. Formal presentation of grammar will continue. Cultural background material is provided by films with continued use of the language lab to improve listening comprehension.

3130FL GERMAN 4**(Grades: 11-12 Credit: 1)***Prerequisite: C or higher grade in German 3*

This course stresses reading ability and continues a review of grammar topics. The reading selections are contemporary in nature and include short stories, detective stories, and poetry of postwar authors. Cultural background material is provided by films with continued use of the language lab to improve listening comprehension.

3140FL ADVANCED PLACEMENT GERMAN**(Grades: 11-12 Credit: 1)***Prerequisite: C or higher grade in German 4 or recommendation of German 3 teacher*

This course is designed as a college preparatory course for students with a strong interest in foreign languages and a desire to improve communication skills in German. The course will provide an extensive review of grammar and expansion of vocabulary. Oral expression practice will be based on discussion of reading assignments and current events. The course will help equip students to take the College Board Advanced Placement examination for college credit in German and/or advanced standing.

Co-curricular activities: German students may join the HHS Deutscher Klub, an active German Club. National German Honor Society membership is available after German 2 to those maintaining high grades in German.

3200FL JAPANESE 1**(Grades: 10-12 Credit: 1)***Prerequisite: C or higher grade in English*

This course introduces students to Japanese language, culture, and geography. The student will develop the skills of listening, speaking, and reading and writing Japanese. First semester will introduce Hiragana symbols and second semester will introduce Katakana symbols for writing and reading. This class requires good study skills and class participation.

3210FL JAPANESE 2**(Grades: 10-12 Credit: 1)***Prerequisite: C or higher grade in Japanese 1*

This course is a continuation of skills introduced in Japanese 1. Students will also learn some Kanji (Chinese characters) for reading and writing. Good study habits and active class participation are required.

3220FL JAPANESE 3**(Grades: 10-12 Credit: 1)***Prerequisite: C or higher grade in Japanese 2*

This course further advances the basic skills with more Kanji (Chinese characters). Several short stories and poems will be read and discussed. The student will learn more about Japanese culture and some history in this course.

3230FL JAPANESE 4**(Grades: 10-12 Credit: 1)***Prerequisite: C or higher grade in Japanese 3*

This course is a continuation of Japanese 3. In this course, students will review everything learned during the past three years. The course will continue focusing on the skills of listening, speaking, and reading and writing Japanese, as well as Japan's culture, history, and Kanji.

Co-curricular activities: Japanese Club meets monthly and offers a variety of activities.

3400FL LATIN 1**(Grades: 10-12 Credit: 1)***Prerequisite: C or higher grade in English*

The goal of the Latin 1 sequence is the development of the ability to read Latin. Latin I begins the study of basic Latin grammar and vocabulary. Roman culture-including history, mythology, art, and literature-and its influences on the modern world are presented whenever possible. Daily homework should be expected.

3410FL LATIN 2**(Grades: 10-12 Credit: 1)***Prerequisite: C or higher grade in Latin 1*

This course continues the study of Latin grammar and vocabulary. More complex constructions necessary for reading Latin literature are introduced culminating with the writings of actual Roman writers. In addition, the culture and history of ancient Rome and its influence on our own culture will be studied.

3420FL LATIN 3: PROSE**(Grades: 10-12 Credit: 1)***Prerequisite: C or higher grade in Latin 2*

This course completes the basic grammar study. The students will read actual Roman writers with emphasis on the writers of the Roman republic and the first century of the Roman empire. In addition, the culture and history of the period corresponding to the writers being studied will be emphasized.

3430FL LATIN 4: POETRY**(Grades: 11-12 Credit: 1)***Prerequisite: C or higher grade in Latin 3*

This course will focus on The Golden Age of Rome both in a literary and historical perspective. The students will read portions of Vergil's *Aeneid*, other relevant authors, and interpret and analyze the themes and ideas of this epic poem. In addition, there will be an in-depth study of the history and culture of this period.

3440FL LATIN 5**(Grade: 12 Credit: 1)***Prerequisite: C or higher grade in Latin 4*

The goal of this course is to broaden the scope of Latin literature studies. Writers of various genres will be studied. In addition, students may choose comparative linguistic studies including New Testament Latin, comedy, drama, or other topics. The student will read, interpret, and analyze these writings as well as study the culture and history corresponding to the authors studied.

3450FL ADVANCED PLACEMENT LATIN: VERGIL**(Grades: 11-12 Credit: 1)***Prerequisite: Latin 4 or recommendation of Latin 3 teacher*

This class is designed to prepare students for the College Board Advanced Placement Latin-Vergil test (*Aeneid*). Students are expected to be able to translate accurately from Latin into English, to demonstrate a grasp of grammatical structures and vocabulary, to show an understanding of the literacy techniques and poetic meters, and to analyze the material stylistically. The class includes the study of the cultural, social, and political context of the *Aeneid*. Successful completion of this class and/or the AP Examination should grant students college credit and/or advanced standing.

Co-curricular activities: An active Latin club exists, and membership in the Junior Classical League is available to all students in Latin classes. National Latin Honor Society is available to those maintaining high grades in Latin.

3530FL SPANISH 1**(Grades: 10-12 Credit: 1)***Prerequisite: C or higher grade in English and signature of English teacher on enrollment form*

This course will use an active approach to learning Spanish. Basic listening, speaking, reading, and writing skills will be developed. Pronunciation, vocabulary, and structure are taught through interactive activities, CDs, and language laboratory sessions. Students are also introduced to the geography, customs, and culture of the Spanish-speaking world. Daily study outside of class is required.

3535FL SPANISH 2**(Grades: 10-12 Credit: 1)***Prerequisite: C or higher grade in Spanish 1*

The course reviews the basic skills learned in Spanish 1. Additional vocabulary and grammar are taught. Speaking, listening, and reading are stressed with regular laboratory sessions. The study of culture is also included.

3550FL SPANISH 3**(Grades: 10-12 Credit: 1)***Prerequisite: Spanish 2 with a C or higher grade required*

In Spanish 3, students will develop stronger speaking and writing skills using grammar and vocabulary in the context of culture and language. In addition to emphasizing the vocabulary and grammar components, units include sections of literature, language, and culture enhanced by the use of multimedia. Accompanying CD and workbook exercises are incorporated daily. This class is primarily conducted in Spanish and will prepare students for any of the more advanced Spanish courses: Spanish 4, Spanish 4 Honors, or Advanced Placement Spanish Language.

3560FL SPANISH 4**(Grades: 11-12 Credit: 1)***Prerequisite: Spanish 3 with C or higher grade required*

Emphasis will be on language and vocabulary development, grammar usage, and writing skills. Appropriate grammar topics including workbook exercises and laboratory practice are incorporated. This course continues the study of culture of the countries in which Spanish is spoken. Since it is an advanced course, the class will be conducted primarily in Spanish and students are expected to speak and write Spanish to enhance their ability in language proficiency.

3570FL SPANISH 4 HONORS**(Grades: 11-12 Credit: 1)***Prerequisite: Spanish 3 with a B or higher grade required and teacher recommendation*

This course is a study of the history, culture, literature, and art of the countries where Spanish is spoken. Topics are discussed through means of media materials, teacher lectures, and student research. Students are expected to have a mastery of Level 3 grammar concepts. More difficult grammar concepts will be reviewed. This is a Spanish-intensive course and students should expect to write extensively. Students are expected to participate in class discussions thereby enhancing their ability to speak the language. Self-directed learning and intensive participation, as well as homework completion, are essential for success in this class.

3580FL ADVANCED PLACEMENT SPANISH**(Grades: 11-12 Credit: 1)***Prerequisite: Spanish 4, Spanish 4 Honors, or recommendation of Spanish 3 teacher*

This class is designed to prepare students for the College Board AP Spanish Language Test. The emphasis is on grammar and vocabulary taught through readings, essays, and student-generated voice recordings. Successful completion of this class and/or the AP examination should grant students college credit and/or advanced standing.

Co-curricular activities: National Spanish Honor Society membership is available after Spanish 2 to those maintaining high grades in Spanish.

INDEPENDENT STUDY IN FOREIGN LANGUAGES**(Grades: 11-12 Credit: ½)**

3099FL INDEPENDENT STUDY IN FRENCH
3199FL INDEPENDENT STUDY IN GERMAN
3599FL INDEPENDENT STUDY IN SPANISH
3499FL INDEPENDENT STUDY IN LATIN
3299FL INDEPENDENT STUDY IN JAPANESE

Independent Study is an opportunity for advanced work on special topics and is not intended to take the place of a currently offered class. Independent study may be pursued if a teacher volunteers to supervise and assess the student's progress and the student presents an outline of his/her proposed activities and objectives. The established procedures for enrolling in Independent Study must be followed, including approval by counselor, teacher, department chair and principal.

HEALTH PROFESSIONS

Practical Arts Credits

Career Path: Human Services; Health Sciences; and Business, Management, and Technology

9230PA INTRODUCTION TO HEALTHCARE PROFESSIONS

(Grades: 10-11 Credit: 1 Practical Arts)

Prerequisite: None

This course serves as a foundation and a bridge to the three-credit Professions in Healthcare. Many healthcare occupations are presented with the goal of developing a realistic individual career plan for each student. Classroom discussion focuses on healthcare history, medical communications, and workplace expectations. Students will evaluate their personal characteristics and how they fit into the demands of a particular occupation. Academic components include basic anatomy, growth and development, microbiology, and safety procedures. Exposure to CPR and first aid training, patient observation, cardiogram reading, and public speaking are integrated into the curriculum. Students are eligible to join a national student professional organization, Health Occupations Students of America (HOSA).

Follow-up: Professions in Healthcare; Animal and Veterinary Science; Laboratory Exploration 101

9231PA INTRODUCTION TO HEALTHCARE PROFESSIONS—HONORS

(Grades: 11-12 Credit: 1 Practical Arts)

Prerequisite: C or better average in Biology and 95% attendance

This honors course explores the same fundamental medical concepts as Introduction to Healthcare Professions. However, it requires a more detailed and in-depth analysis of healthcare concepts, using problems based methodology as used by many medical training facilities. The student will be required to research and investigate healthcare careers. Specific units will include medical terminology, history of medicine, microbiology, human growth and development, medical assessment, first aid, and safety. Anatomy and pathophysiology will also be explored. Students are eligible to join a national student professional organization, Health Occupations Students of America (HOSA).

Follow-up: Professions in Healthcare; Laboratory Exploration 101; Laboratory Foundations; Animal and Veterinary Science

9235PA PROFESSIONS IN HEALTHCARE

(Grades: 11-12 Credit: 3 Practical Arts)

Prerequisite: Record of good citizenship and attendance; Employee Disqualification List (EDL) check; Federal Marker check; State Criminal Background check; and a drug test. Must successfully pass first semester to continue into second semester clinicals.

Dual credit may be available with University of Central Missouri

Students learn patient care skills in the classroom, lab, and at clinical sites within the community. Students have an opportunity to shadow a healthcare provider in an independent clinical experience. Students will learn basic nursing and communication skills, anatomy and physiology, pathophysiology and medical terminology. There is a strong emphasis on medical math. American Heart Healthcare Provider CPR and First Aid certification will be available. Completion of the program prepares students to work in healthcare while pursuing post-secondary education. Completion of the hours of direct patient care and classroom instruction may provide eligibility to sit for the state Certified Nurse Assistant (CNA) exam, and enhance opportunities for admission to advanced healthcare career programs. Students are eligible to join a national student professional organization, Health Occupations Students of America (HOSA).

Follow-up: Laboratory Foundations; 21st Century Life Sciences

9236PA PROFESSIONS IN HEALTHCARE—HONORS

(Grades: 11-12 Credit: 3 Practical Arts)

Prerequisite: C or better average in Biology; 95% attendance; record of good citizenship; Employee Disqualification List (EDL) check; Federal Marker check; State Criminal Background check; and a drug test. Must successfully pass first semester to continue into second semester clinicals.

Dual credit may be available with University of Central Missouri

This program provides opportunities to explore healthcare professions. This class explores the same fundamental medical concepts as Professions in Healthcare. However, it requires a more in detailed and in-depth analysis of anatomy, physiology and pathophysiology. In the spring, students will have an opportunity to shadow a healthcare provider in an independent clinical experience. There is a strong emphasis on medical math. American Heart Healthcare Provider CPR and First Aid certification will be available. Completion of the program prepares students to work in healthcare while pursuing post-secondary education. Completion of the hours of direct patient care and classroom instruction may provide eligibility to sit for the state Certified Nurse Assistant (CNA) exam, and enhance opportunities for admission to advanced healthcare career programs.

Follow-up: Laboratory Foundations; 21st Century Life Sciences

9251PA LABORATORY EXPLORATION 101

(Grades: 10-12 Credit: ½ Practical Arts and ½ Science)

Prerequisite: None

Learn to effectively use equipment and instruments essential to most laboratories. The lab skills learned are transferable to high school and post-secondary science courses with a lab. Develop abilities with many laboratory tools and procedures including analytical balances, pH meters, microscopes, micropipettes, gram staining, aseptic technique, and bacterial strain isolation. Apply knowledge and lab skills to design experiments and collect data. Learn to apply critical and analytical thinking skills to your data. Present what your evidence indicates with confidence in your experimental methods and data.

Follow-up: Laboratory Foundations; 21st Century Life Sciences; Photonics; Professions in Healthcare

9252PA LABORATORY FOUNDATIONS MI (MEDICAL AND INDUSTRIAL)

(Grades: 11-12 Credit: ½ Practical Arts and ½ Science)

Prerequisite: C or better average in ONE of the following: Biology, Chemistry, Lab Explorations 101, or Lab Foundations PE.

NOTE: Course is offered alternate years – next class 2011-2012.

Learn techniques and apply technologies used in medical and industrial laboratories. Medical laboratory work will focus on microscopy, microbiology, blood and tissue identification simple chemical tests, ELISA and PCR. Industrial laboratory work will focus on raw materials identification testing, pH, titrations, and specific gravity. Skills taught are essential for students interested in a science-related career and will equip students for high school and post-secondary laboratory coursework, and lay the foundation for future professional laboratory work.

Follow-up: Lab Foundations PE; 21st Century Life Sciences; Photonics; Professions in Healthcare; C++ Programming

**9253PA LABORATORY FOUNDATIONS PE
(PHARMACEUTICAL AND ENVIRONMENTAL)**

(Grades: 11-12 Credit: ½ Practical Arts and ½ Science)

Prerequisite: Grade of C or better average in ONE of the following: Biology, Chemistry, Lab Explorations 101, or Lab Foundations MI

NOTE: Course is offered alternate years – next class 2010-2011.

Learn and apply techniques and technologies used in pharmaceutical and environmental laboratories. You will perform the pharmaceutical laboratory work of wet chemistry, spectrophotometry, chromatography, and extractions. The environmental laboratory work will include sampling techniques, chemical analysis, and biological testing. Skills taught are essential for students interested in a science-related career. The lab experiences will equip students for high school and post-secondary laboratory coursework, and lay the foundation for future professional laboratory work.

Follow-up: Lab Foundations MI; 21st Century Life Sciences; Photonics; Professions in Healthcare; C++ Programming

**9258PA 21ST CENTURY LIFE SCIENCES DRIE
(DIAGNOSTIC RESEARCH, INDUSTRIAL AND ENVIRONMENTAL)**

(Grades: 11-12 Credit: ½ Practical Arts and ½ Science)

Prerequisite: C or better average in TWO of the following courses: Biology, Chemistry, Lab Explorations 101, Lab Foundations MI, Lab Foundations PE

NOTE: Course is offered alternate years – next class 2011-2012.

Articulated college credit available

Dual credit may be available with Central Methodist University

Investigate life science techniques and technologies through industrial, environmental, and research applications. Solve puzzles through applying microbiology methods, gel electrophoresis, spectrophotometry, ELISA and PCR analysis. Learn and apply methods that are the collective basis for activities as varied as combating emergent diseases, improving stonewashed jean production, and ensuring the survival of endangered species. Investigate life science-related careers from laboratory technician to lawyer to venture capitalist. Skills taught are essential for students interested in a science-related career. The lab experiences will equip students for high school and post-secondary laboratory coursework, and lay the foundation for future professional laboratory work.

Follow-up: 21st Century Life Sciences: MPA; Laboratory Foundations; Photonics; Professions in Healthcare; C++ Programming

**9259PA 21ST CENTURY LIFE SCIENCES MPA
(MEDICAL, PHARMACEUTICAL, AND AGRICULTURAL)**

(Grades: 11-12 Credit: ½ Practical Arts and ½ Science)

Prerequisite: C or better average in TWO of the following courses: Biology, Chemistry, Lab Explorations 101, Lab Foundations MI, Lab Foundations PE.

NOTE: Course is offered alternate years – next class 2010-2011.

Articulated college credit available

Dual credit may be available with Central Methodist University

Investigate life science techniques, technologies and controversies within medicine, pharmaceuticals, and agriculture. Solve puzzles through applying microbiology methods, gel electrophoresis, spectrophotometry, ELISA and PCR analysis. Understand the current and potential effect of the current biotechnology on human society. Skills taught are essential for students interested in a science-related career. The lab experiences will equip students for high school and post-secondary laboratory coursework, and lay the foundation for future professional laboratory work.

Follow-up: 21st Century Life Sciences: DRIE; Laboratory Foundations; Photonics; Professions in Healthcare; C++ Programming

LANGUAGE ARTS

Career Paths: Arts and Communication; Human Services

The following courses grant English credit:

2300EN ENGLISH 2: WORLD LITERATURE AND WRITING

(Grade: 10 Credit: 1)

This is a course for the development of reading, writing, thinking and speaking skills. English 10 will emphasize literature, writing and formal/informal presentations. Assignments will include the following: personal narratives, writing about literature, and exposition (essays and research). Students will read and discuss several novels, various short stories, and works of non-fiction. The course will focus on global issues inherent in world literature such as cultural conflict, religion, mythology/archetypes, and the dangers of power. This course is designed to prepare students for college.

0520NC ENGLISH 2: WORLD STUDIES (CONNECTIONS)

(Grade: 10 Credits: 1 English + 1 World History -- 2 Hour Block)

This offering integrates the content of both World History and English and emphasizes expression in writing, visual art, drama, music, as well as media literacy. The year will begin by studying the origins of civilizations and literary archetypes. We will then continue to explore these threads in other world cultures. In addition to analytical and creative writings, students will develop individual and group projects. Primary sources and numerous additional texts provide the written resources for this course. This course is taught by an English and a history teacher during a daily two-hour block. This combination of English and history curricula requires that students be motivated, independent learners able to synthesize ideas from both subjects in a large classroom environment. Students in this interdisciplinary course will receive the same grade for both English and social studies sections.

1202EN ENGLISH 2: WORLD LITERATURE AND WRITING (HONORS)

(Grade: 10 Credit: 1)

The literature of this course is based on making connections among myths, archetypes, literature, criticism and artistic movements. A study of Greek myth leads into world mythology and archetypes. From this epicenter, we study poetry, epic, comedy, tragedy, essay, nonfiction, the novel, the short story and criticism. Broad cultural movements (romanticism, realism, modernism, etc.) and their relationship to the literature are addressed. Independent readings encourage further ethnic and gender explorations. Focused writing (thesis-centered essays and research) is an integral part of the course. Ambitious vocabulary study and prescriptive grammar are other components.

0527NC ADVANCED PLACEMENT WORLD HISTORY / ENGLISH 2: WORLD LITERATURE (HONORS)

(Grade: 10 Credit: 1 World History + 1 English -- 2 Hour Block)

This honors course provides for an interdisciplinary study of world literature and world history which integrates AP World History and English 10 Honors. The process of reading, writing, and research are emphasized in a rigorous examination of world history and classic literature from earliest civilizations to the modern era. This course is taught by an English teacher and a history teacher during a daily two-hour block. This combination of English and history curricula requires that

students be motivated, independent learners able to synthesize ideas from both subjects in a large classroom environment. Students in this interdisciplinary course will receive the same grade for both English and social studies sections and may elect to take the College Board Advanced Placement World History Exam. Selecting this course requires high motivation and individual responsibility, superior reading and writing skills and an avid interest in history, literature, and writing. This course fulfills the graduation requirement for both world history and sophomore English.

2600LA JOURNALISM

(Grades: 10-12 Credit: 1)

This course is designed primarily for the student who wants to work on the newspaper or yearbook as a senior, but it will be of interest to any student who wants to write for publication. Students learn advanced writing skills including those necessary to write news stories, features, reviews, columns, editorials and in-depth reports. Additional units include layout, design, desktop publishing and media literacy. Students are required to read a daily newspaper. Students have the opportunity to explore journalism as a career and may have their work published in the Purple & Gold. Students must also be enrolled in another English course.

2401EN ENGLISH 3: AMERICAN LITERATURE AND WRITING

(Grade: 11 Credit: 1)

This college preparatory course emphasizes a rigorous study of American literature and the American experience. In thematic and chronological units, students will read poetry, short stories, essays, plays, and novels by classic and current American authors from major literary movements. Writing instruction focuses on formal exposition. Assessments will include literary analysis, oral presentations, essays, creative writings, and standardized tests. In addition to class texts, students will be required to read independent texts. This course will help students improve vocabulary, research, and language skills, while fostering growth in reading and writing.

0530NC ENGLISH 3: U.S. STUDIES

(Grades: 11-12 Credits: 1 U.S. History + 1 English -- 2 Hour Block)

American Studies block is a course that integrates U.S. History and Literature in an examination of what it means to be an American in today's society. The course begins by posing the question of European exploration as discovery versus invasion of North America and continues through the history being made today. An interdisciplinary approach means that history is used to better understand literature, and literature humanizes history. Students will read varied types of literature representative of historical time periods, i.e. journals and speeches from the Colonial Period, poetry of the Revolution, letters from the Civil War, and short stories from the Viet Nam era. This course is designed to foster growth in vocabulary, research, analysis, and interpretation, along with verbal and written communication. This course is taught by both an English and a History teacher during a daily two-hour block. This combination of English and history curricula requires that students be motivated, independent learners able to synthesize ideas from both subjects in a large classroom environment. Students in this interdisciplinary course will receive the same grade for both English and social studies sections.

2405EL ENGLISH 3: AMERICAN LITERATURE AND WRITING LAB

(Grade: 11 Credit: 1)

Prerequisite: Enrolled concurrently in English 3 and teacher recommendation

This course is designed to be taken in conjunction with English 3: American Literature and Writing to provide additional academic support for students who struggled (earned a grade of D) in English 2. Instruction will emphasize the development of effective study skills and of reading, writing and speaking strategies. This course grants elective credit only.

2403EN ENGLISH 3: ADVANCED PLACEMENT LANGUAGE AND COMPOSITION (HONORS)

(Grade: 11 Credit: 1)

This course is designed for the highly-motivated student who has the desire to read, discuss, and interpret American literature from the 1600s to the present. Organized chronologically, AP Language and Composition examines representative works from major literary movements while focusing on rhetorical analysis of nonfiction, fiction, poetry and drama. Students will have daily homework and should be prepared for literary analysis essays, researched essays, vocabulary tests, and Socratic Seminars. Success in this course should give students the skills and background necessary to gain credit for passing the Advanced Placement Exam in Language and Composition.

0540NC ADVANCED PLACEMENT U.S. HISTORY / ENGLISH 3: ADVANCED PLACEMENT LANGUAGE AND COMPOSITION (HONORS)

(Grade: 11 Credits: 1 U.S. History + 1 English – 2-Hour Block)

This course integrates Advanced Placement U.S. History and Advanced Placement Language and Composition. The course is structured to assist students in perfecting their reading, writing, research, and critical thinking skills through a rigorous analysis of American history and literature. The intensive, interdisciplinary focus of the course is designed to prepare students for success on the College Board's examinations in both U.S. History and Language and Composition, as well as college level work in both disciplines. Students must be recommended by their current social studies and English teachers. This course is taught by an English and a history teacher during a daily two-hour block. This combination of English and history curricula requires that students be motivated, independent learners able to synthesize ideas from both subjects in a large classroom environment. Students in this interdisciplinary course will receive the same grade for both English and social studies sections.

2450EN WRITE TO PUBLISH

(Grades: 11-12 Credit: 1)

This challenging creative writing course is designed for students with a very strong interest in the craft of writing who wish to further develop their skills in a pre-professional workshop environment. Writers in this course will develop an extensive portfolio of work including short stories, poetry, memoirs, commentaries, reviews and screenplays for short films. Students will frequently be required to share their work with peers. Numerous reading assignments and class discussions will provide students with a greater understanding of the strategies, habits, and styles of contemporary professional and amateur writers. Students will also learn how to market their writings to a real-world audience and will be required to submit manuscripts to various contests and professional publications (including the Hickman Review). This course demands above-average reading and writing skills, as well as the ability to work independently and to manage long-term assignments. While this is a college-preparatory

course for seniors, juniors wishing to take Write to Publish must also enroll in another English course as this class does not specifically address American literature or "academic" writing.

2500EN ENGLISH 4: CAREER COMMUNICATIONS (Grade: 12 Credit: 1)

This course is designed to improve the student's practical oral and written communication skills. Practice in critical reading, speaking, researching for personal and professional information needs, writing technically and analytically, using available technology to communicate, developing decision-making skills, and working in job-related team situations will facilitate the transition from the high school to the world of employment. This course will prepare the student for direct job entry, vocational training, or community college experiences. (This course does NOT meet NCAA requirements for Division I and II colleges.)

2499EN ENGLISH 4: COLLEGE COMPOSITION (Grade: 12 Credit: 1)

This college preparatory course emphasizes a rigorous study of writing. Students will compose for a variety of purposes and audiences, as well as in a variety of forms, such as narrative and expository. Students will also engage in critical reading and analysis of challenging literature. In addition, the course will provide an ambitious study of vocabulary and a review of grammar and usage. The purpose of this course is to prepare students for college writing experiences.

2502EN ENGLISH 4: BRITISH LITERATURE (Grade: 12 Credit: 1)

This course is intended for students who plan to attend college and are interested in a chronological sampling of British literature. Among the authors students will study are Geoffrey Chaucer, William Shakespeare, Jonathan Swift, John Keats, the Bronte Sisters, Virginia Woolf, Oscar Wilde, and Dylan Thomas. Key activities will be on-line group discussion of literary themes and issues, Socratic seminars, literary analyses, creative writing, and periodic study of British filmmakers and songwriting. Independently, students must read one significant British novel of their own choice; read, analyze, and present on one Shakespeare play in study groups; research the life and work of a major British poet of their own choice; attend and comment in writing upon one British Literature Film Festival offering per semester; and maintain an electronic writing portfolio. Professionals and students from Columbia's post-high school community will also visit the classroom to discuss college expectations and transitional issues.

2504EN ENGLISH 4: ADVANCED PLACEMENT LITERATURE AND COMPOSITION (HONORS) (Grade: 12 Credit: 1)

This honors course emphasizes critical reading, analytical writing and probing discussion about a wide range of complex world literature. Students study the works of numerous authors such as Plato, William Shakespeare, Fyodor Dostoyevsky, John Donne, John Milton, Jonathan Swift, Ken Kesey, Joseph Conrad, and Albert Camus. A series of independent projects require that students also read extensively from the list of previous Advanced Placement Exam titles. This arduous course demands superior writing and reading skills, an interest in literary analysis and the ability to work cooperatively to produce professional-quality products and presentations. Frequent Socratic Seminars challenge students to speak accurately, thoughtfully and logically about the diverse ideas of historical great thinkers. Success in this course should give students the skills and background necessary to gain credit for passing the Advanced Placement Exam in Literature and Composition.

2503EN INDEPENDENT STUDY IN ENGLISH

(Grade: 12 Credit: 1/2)

This self-designed course is intended for capable, highly-motivated seniors who wish to pursue in depth a particular interest that extends beyond what is addressed through other class offerings. Working with a mentor teacher, students will design their own unique curriculum, including a detailed course syllabus, a list of reading assignments, descriptions of projects and products, and assessments of skills and knowledge. Areas of exploration might include: a literary genre such as contemporary American poetry, a literary technique such as irony, a theme such as alienation, or a skill such as short story writing. In addition to persuading an English teacher to act as a mentor, students must get approval from their guidance counselor and the Language Arts department chair(s). (All requests are subject to the established procedures for enrolling in Independent Study.)

2510EN CAREER CENTER ENGLISH 12 AND COLLEGE COMPOSITION

(Grade: 12 Credit: 1 English)

Prerequisite: Grade B or better in English 11, American Studies, or equivalent English course and GPA of 2.5 or higher with preference given to students with 95% attendance. Students must also be enrolled in a career center class.

Students enrolled in a career center course can fulfill requirements for English 12 and earn 3 hours of college credit by satisfactorily completing this rigorous study of writing. Students will compose for a variety of purposes and audiences—all related to the technical program in which they are enrolled. Writing college-level essays, students will develop skills in forms such as illustration and classification. They will also complete critical readings and analysis of challenging literature, particularly of non-fiction articles, by professionals and academics. In addition, the course will provide a study of vocabulary and a review of grammar, usage, and mechanics. Students will apply fundamental aspects of argument and support in a research paper.

Enrollees who meet the course requirements will receive 3 hours of college credit through LSTC and 1 English high school credit.

The Coordinating Board for Higher Education has established guidelines for transfer of course credits between Missouri public colleges and universities. For further information, please visit www.dhe.mo.gov/credittransfer.shtml and confirm with the college you plan to attend.

The following courses grant Language Arts credit only:

2350LA LITERACY SEMINAR

(Grades: 10-12 Credit: 1)

Students in Literacy Seminar focus on reading skills and strategies and work on becoming more efficient readers. Students participate in whole group and small group instruction and activities as well as independent reading and thoughtful responses to books of their choice. The course includes individualized instruction, and the teacher and student work together to set personal reading goals for each student. Individualized reading assessments are also used to guide instruction, direct goal-setting, and monitor student progress. Students often work independently to advance toward their goals and to grow as readers. Other class objectives include students becoming more metacognitive about themselves as readers and learners and students transferring reading skills to content-area courses. NOTE: Enrollment guidelines include teacher recommendation and consideration of multiple literacy assessments. A reading class can count as a Language Arts credit one time only (grades 9-12). If a student takes a reading

class for more than one year of high school, the reading class is counted as elective credit.

0529NC LITERACY BLOCK

(Grade: 11 Credits: 1 English credit + 1 Language Arts credit -- 2 Hour Block)

This course is designed to provide an extended literacy experience for high school juniors. The Literacy Block is a two-hour class that focuses on a variety of reading, writing, listening, and speaking experiences; it is designed to reinforce and enhance the literacy skills necessary for success in school and life. Research indicates that an extended and flexible time for purposeful reading and writing is very beneficial for high school students. The English portion of this class will emphasize the study of American Literature. Poetry, short stories, essays, plays, and novels by American authors will be read. Students will respond to reading through writing and will have opportunities to focus on formal exposition. The Language Arts portion of this class will focus on setting personal reading goals to improve reading skills and comprehension of a variety of texts. Individualized reading assessments will be used to guide instruction, direct goal setting, and monitor student reading progress. Students who successfully complete this two-hour Literacy Block will earn one English credit and one Language Arts credit. NOTE: Teacher recommendation for enrollment in this class is a requirement. A variety of literacy assessments will be considered to identify appropriate candidates for this course.

2704LA ORAL INTERPRETATION

(Grades: 10-12 Credit: 1 Fine Arts OR Language Arts)

Prerequisite: MSHSAA eligibility – pass 3 credits previous semester (2.5 credits previous semester for 2009 graduates)

The course is intended for students interested in increasing their proficiency in individual performance. Students will prepare and present speeches and oral presentations in areas such as Prose, Poetry, Humorous Interpretation, Dramatic Interpretation, Duet Acting, and Readers Theater. Skills include selecting and cutting materials, adapting to an audience, and evaluating performances. Students must be MSHSAA eligible and will be required to participate in weekend tournaments.

2703LA PUBLIC SPEAKING

(Grades: 10-12 Credit: 1)

Most careers require some level of oral presentation, and most high school and college classes include work that requires students to present in front of a class. This course equips students with tools to overcome speaker discomfort, to create organizational patterns to capture an audience, and to skillfully deliver professional presentations of all kinds. Group discussions, public speeches and interview skills will all be strengthened. If you have never had a speech course, this course is designed for you.

2705LA DEBATE I

(Grades: 10-12 Credit: 1)

Prerequisite: MSHSAA eligibility – pass 3 credits previous semester (2.5 credits previous semester for 2009 graduates)

This course includes study and systematic use of fact, logic and critical evaluation in preparation for participation in Cross Examination, Public Forum, Lincoln-Douglas debates, extemporaneous speaking, student congress, and group discussion. Research is emphasized as students seek proof of arguments used in debating current social problems and international conflicts. Students must be MSHSAA eligible and will be required to participate in weekend tournaments.

2706LA DEBATE 2 and 3
(Grades: 11-12 Credit: 1)

Prerequisite: MSHSAA eligibility – pass 3 credits previous semester (2.5 credits previous semester for 2009 graduates)

Prerequisite: Debate I or instructor approval. This course is designed for competitively oriented students who are interested in attending speech tournaments in debate and related speaking events. Students elect to focus on the current national Cross Examination debate topics or the periodic Lincoln-Douglas or Public Forum debate topics, and research, analyze and debate their choices. Students must be MSHSAA eligible and will be required to participate in weekend tournaments.

2601LA JOURNALISM EDITORS SEMINAR
(Grades: 11-12 Credit: 1)

Designed for the student who wants an intense experience in journalism, this course requires students to maintain a portfolio of their writing and their page design. Students in this class will serve as editors of school publications. They will discuss methods to improve content and coverage of publications, revise and edit the work of their peers, and work to enhance graphic design using Photoshop and Adobe Illustrator, as well as PageMaker. Finally, students will research areas of journalism, ethics, communications law, and media literacy. Students who enroll in this course must be members of a school publications staff.

2454LA CLASSICAL IDEAS AND WORLD RELIGIONS
(Grades: 11-12 Credit: 1)

This course focuses on significant ideas which have been explored throughout history and which continue to be influential today. Students will read excerpts from philosophy, world religions and world literature; listen to guest speakers; discuss with classmates; write to clarify ideas; and research for further information. This class requires a willingness to think critically and the skill and commitment to read challenging material.

The following courses grant Language Arts OR Practical Arts credit:

2603LA NEWS MAGAZINE PRODUCTION
(Grades: 11-12 Credit: 1)

Prerequisite: Journalism

This course is designed for the student who wants to be involved in the publication of the Purple & Gold, Hickman's newsmagazine. Producing this award winning publication, with a circulation of more than 2000, will allow students to experience real-world journalism. The class enables students to improve their writing, editing, design and desktop publishing skills in an authentic setting. Students who sign up for the course should be able to work well both independently and in group settings, have a high level of commitment to writing excellence and understand the rights and responsibilities of scholastic journalists. Students must have successfully completed Journalism.

2602LA YEARBOOK PRODUCTION
(Grades: 11-12 Credit: 1)

Prerequisite: Journalism, Photography I, or instructor's consent and approved staff application

Students in this year-long course produce Hickman's yearbook, the Cresset. Students who are approved for enrollment in the course will: work well in groups, be able to work independently in a workshop setting, work well under deadline pressure, be able to prioritize, have strong writing skills and be willing to spend time outside of school to meet deadlines.

The following courses grant Language Arts credit:

3600LA CLASSICAL ROOTS
(Grades: 10-12 Credit: ½ Language Arts)

Over sixty percent of the words in English derive from the classical languages of Latin and Greek. This course will give students the skills needed to decode those English words by learning the meanings of the classical roots, prefixes, and suffixes, and how words are derived. Students will also explore major areas of classical influence found in American culture especially within vocational areas such as health sciences, law, social sciences, and language arts. This class should be considered college preparatory. It is an excellent introduction to the kinds of items found on the verbal portions of standardized tests such as the ACT and SAT.

3610LA INTRODUCTION TO CLASSICAL MYTHOLOGY
(Grades: 10-12 Credit: ½ Language Arts)

This course is designed for students who wish to explore the world of classical mythology. It begins by acquainting them with the nature of myth or the traditional stories by which a people define their world and affirm its shared values. Students will explore some methods by which these tales can be interpreted. Finally, students will meet those gods and heroes through original authors in translation and visual depictions from ancient artwork. This course is reading and writing intensive.

MATHEMATICS

Career Paths: Business, Management & Technology, Health Services,
Industrial and Engineering Technology, and Natural Resource Systems

The Columbia Public Schools has a goal to prepare all students for the opportunity to continue their education after high school. While not all students will have that goal, preparation for that possibility is vital. In order to provide the necessary preparation, there are two pathways that provide the mathematical experiences necessary for postsecondary studies. Both programs encourage 4 years of study. The Algebra pathway consists of Algebra 1, Geometry, Algebra 2, and Pre-Calculus. The Integrated Pathway consists of Integrated Math 1 through Integrated Math 4. Both pathways prepare students to be ready to study Calculus. While colleges may only require 3 years of college prep mathematics, many university studies are showing that taking more than 3 years of college-prep math is the single greatest predictor to success in college. We strongly urge students to prepare themselves by taking appropriately rigorous mathematics throughout their high school career. In an effort to prepare our students for life after their high school experience, the Mathematics Department encourages all students to have access to hand-held calculators. Most courses make extensive use of graphing calculators and access outside the classroom is beneficial to developing mathematical understanding. Refer to the High School Mathematics Placement chart and talk with a mathematics teacher before enrolling in a mathematics class.

5617MA ALGEBRA 1 (Grade: 10 Credit: 1)

Pre: Teacher recommendation

Algebra 1 is a complete 1-year algebra course. Students will learn notation, manipulation, application and problem solving skills with variables, including linear equations, quadratic equations, factoring and multiplying polynomials. Students should expect daily challenging out-of-class assignments to reinforce class work and a fast pace through the curriculum. Successful completion of this course will satisfy prerequisites for Geometry. (Graphing calculators are used in this class.)

5620MA INTEGRATED MATH 1 (Grades: 10-12 Credit: 1)

Pre: Teacher recommendation

Integrated Math 1 is a first year course in a four-year sequence that prepares students for calculus or technical math courses. This program integrates probability, statistics, algebra, finite math, and geometry over the four year experience. Specific topics for Course 1 include algebraic concepts (including manipulation, linear equations, quadratic equations and factoring), multiple graphing techniques, measures of center, linear and exponential models, circuits and paths, Pythagorean Theorem, 2- and 3-dimensional shapes, and simulation and binomial trials. The course develops these topics in a real-world context and emphasizes discovery, thus affording students a more intense experience and fostering long-term mathematical growth. This course is a prerequisite for Integrated Math 2. (Graphing calculators are used in this class.)

5651MA GEOMETRY

(Grades: 10-12 Credit: 1)

Pre: Algebra 1 and teacher recommendation

Geometry, plane and solid, is a study of rectangular figures in 2 or 3 dimensions. Emphasis is placed on proving theorems using deductive reasoning. Also stressed are such topics as areas and volumes of plane and solid figures. A strong background in Algebra I is necessary.

5645EL GEOMETRY LAB

(Grades: 10-12 Credit: 1 elective)

Pre: Geometry concurrently and teacher recommendation

This course is designed to be taken in conjunction with Geometry to provide additional experiences for students who have struggled (those making a C or D) in Algebra 1. The students in this course will participate in work surrounding developing enriched background which should lead to greater success in Geometry. These experiences will include, but not be limited by, developing richer knowledge base of vocabulary, skill issues, and other strategies designed to accelerate student learning.

5655MA INTEGRATED MATH 2

(Grades: 10-12 Credit: 1)

Pre: Integrated Math 1 and teacher recommendation

Integrated Math 2 continues the development of concepts introduced in Integrated Math 1. Specifically, this course covers the following topics: algebraic concepts (including manipulation, advanced quadratic equations, factoring and systems of equations), matrices, geometric transformations, data correlation, power models, and trigonometry. This course is a prerequisite for Integrated Math 3. (Graphing calculators are used in this class.)

5647EL INTEGRATED MATH 2 LAB

(Grades: 10-12 Credit: 1 elective)

Pre: Integrated Math 2 concurrently and teacher recommendation

This course is designed to be taken in conjunction with Integrated Math 2 to provide additional experiences for students who have struggled (those making a C or D) in Integrated Math 1. The students in this course will participate in work surrounding developing enriched background which should lead to greater success in Integrated Math 2. These experiences will include, but not be limited by, developing richer knowledge base of vocabulary, skill issues, and other strategies designed to accelerate student learning.

5710MA ALGEBRA 2

(Grades: 10-12 Credit: 1)

Pre: Geometry and teacher recommendation

Algebra 2 is a continuation and extension of Algebra 1 and Geometry. New topics of study include advanced quadratics and logarithms. Success in Algebra 2 depends heavily on the success a student has had in Algebra 1 and Geometry. (Graphing calculators are used in this class.)

5720MA ALGEBRA 2 - HONORS**(Grades: 10-12 Credit: 1)***Pre: Geometry and teacher recommendation*

Algebra 2 is a continuation and extension of Algebra 1 and Geometry. It will be assumed that the student has a good working knowledge of Algebra 1. New topics studied will be advanced quadratics and logarithms. The course is designed for the competitive, serious math student who is interested in studying the topics of Algebra 2 in more detail. (Graphing calculators are used in this class.)

5722MA STATISTICS**(Grade: 12 Credit: 1)***Pre: Algebra 2 or Integrated Math 3 or concurrent and teacher recommendation*

Statistics for a full year is designed for the college bound senior. This course will introduce three broad topics, which are descriptive statistics, probability theory, and statistical inference. Typical applications include description of sample data, laws of probability, simulations, sampling techniques, surveys, and analysis of measurements including non-parametric tests. (Graphing calculators are used in this class.)

5725MA INTEGRATED MATH 3**(Grades: 10-12 Credit: 1)***Pre: Integrated Math 2 and teacher recommendation*

Integrated Math 3 continues to build on the development of algebraic and geometric concepts introduced in the earlier integrated series. Some of the topics that are included in this course are: multiple-variable models, inductive and deductive reasoning, functions and algebraic reasoning. This course is designed to prepare students for post-secondary experiences, both academic and workforce related. This course serves as the prerequisite to Integrated Math 4. (Graphing calculators are used in this class.)

5701EL INTEGRATED MATH 3 LAB**(Grades: 10-12 Credit: 1 elective)***Pre: Integrated Math 3 concurrently and teacher recommendation*

This course is designed to be taken in conjunction with Integrated Math 3 to provide additional experiences for students who have struggled (those making a C) in Integrated Math 2. The students in this course will participate in work surrounding developing enriched background which should lead to greater success in Integrated Math 3. These experiences will include, but not be limited by, developing richer knowledge base of vocabulary, skill issues, and other strategies designed to accelerate student learning.

5727MA INTEGRATED MATH 3 - HONORS**(Grades: 10-12 Credit: 1)***Pre: Integrated Math 2 and teacher recommendation*

Integrated Math 3 continues to build on the development of algebraic and geometric concepts introduced in the earlier integrated series. Some of the topics that are included in this course are: multiple-variable models, inductive and deductive reasoning, functions and algebraic reasoning. This course will move at a quicker pace than the regular Integrated Math 3 course and do more extension problems. This course is designed to prepare students for post-secondary experiences, both academically and workforce related. This course serves as the prerequisite to Integrated Math 4. (Graphing calculators are used in this class.)

5705MA PREPARATION FOR COLLEGE ALGEBRA**(Grade: 12 Credit: 1)***Pre: Geometry, Integrated Math 2 or higher and teacher recommendation*

This course is designed to prepare a college or work-bound senior. Preparation for College Algebra is designed to provide additional experiences for students who have struggled (those making a C or lower) in Geometry or Integrated Math 2. The students in this course will participate in work surrounding developing enriched background which should lead to greater success in College Algebra. These experiences will include, but not be limited by, developing richer knowledge base of vocabulary, skill issues, and other strategies designed to accelerate student learning.

5730MA COLLEGE ALGEBRA**(Grades: 10-12 Credit: 1)***Pre: Algebra 2, or Integrated 3 and teacher recommendation*

College Algebra is the usual college-level algebra course. The course includes the study of exponents and radicals, rational and polynomial inequalities and their graphs, systems of equations, and matrices and determinants. Since trigonometry is not taught in this course, it will not serve as the prerequisite to calculus. (Graphing calculators are used in this class.)

5780MA PRE-CALCULUS**(Grades: 10-12 Credit: 1)***Pre: Algebra 2 and teacher recommendation*

Pre-calculus is designed for the science oriented or college bound student. The course includes the study of functions, limits, trigonometry, analytic geometry and other advanced topics. Upon successful completion of this course, a student should be prepared to enroll in the usual first semester calculus course at any university. (Graphing calculators are used in this class.)

5782MA PRE-CALCULUS - HONORS**(Grades: 10-12 Credit: 1)***Pre: Algebra 2 or Algebra 2 Honors and teacher recommendation*

Pre-calculus Honors includes the same topics of study as regular Pre-calculus with additional emphasis placed on formal proof and theory. Success in this course depends on a strong background in Algebra 2 and a sincere desire to study mathematics. (Graphing calculators are used in this class.)

5785MA INTEGRATED MATH 4**(Grades: 10-12 Credit: 1)***Pre: Integrated Math 3 and teacher recommendation*

Integrated Math 4 concludes the development of concepts introduced throughout the integrated series. This course includes the study of functions, rates of change, modeling motion using vectors and parametric equations, and other advanced topics. Upon completion of this course, a student should be prepared to enroll in a first semester calculus course at any university. (Graphing calculators are used in this class.)

5787MA INTEGRATED MATH 4 HONORS**(Grades: 10-12 Credit: 1)***Pre: Integrated Math 3 or 3 Honors and teacher recommendation.*

Integrated Math 4-Honors concludes the development of concepts developed throughout the integrated series. This course includes the study of functions, rates of change, modeling motion using vectors and parametric equations, and other advanced topics. This course will move at a quicker pace than the regular Integrated Math 4 course and do more extension problems. Upon completion of this course, a student should be prepared to enroll in Calculus. (Graphing calculators are used in this class.)

5905MA ADVANCED PLACEMENT STATISTICS**(Grade: 12 Credit: 1)**

Pre: Algebra 2 or Integrated 3 (or above) and teacher recommendation

This course is designed to provide for successful completion of the AP examination in statistics. College-bound seniors will be introduced to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. These include descriptive statistics, probability and simulation, planning a study, and statistical inference. Satisfactory completion of the course and the AP examination will provide students with credit for a one semester introductory college statistics course at cooperating universities. (Graphing calculators are used in this class.)

5910MA AP CALCULUS AB**(Grades: 10-12 Credit: 1)**

Pre: Pre-calculus or Integrated 4 and teacher recommendation and summer review work

As described by the College Board (www.collegeboard.com) AP Calculus AB is primarily concerned with developing students understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to and the interconnectness of calculus. The topics for this course include: rates of change, derivatives, linearization, related rates, separable differential equations, integrals, volumes of solids, and other applications of integration. This course is the equivalent of **one** semester of college calculus. (Graphing calculators are used in this course.)

5920MA AP CALCULUS BC**(Grades: 10-12 Credit: 1)**

Pre: Pre-calculus or Integrated 4 and teacher recommendation and summer review work

As described by the College Board (www.collegeboard.com), AP Calculus BC is primarily concerned with developing students understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to and the interconnectness of calculus. The topics for this course include all topics from AP Calculus AB along with the following additional topics: improper integrals, infinite series, polynomialization, convergence/divergence of series, parametric functions, polar functions, and vector functions. This course is the equivalent of **two** semesters of college calculus. (Graphing calculators are used in this class.)

1525MA MATH 15-COLLEGE ALGEBRA**(Grade: 12 Credit: 3 College credits + ½ H.S. Math credit and ½ H.S. elective credit)**

Prerequisite: Grade B or better in Integrated Math 3 or Algebra 2 (or higher level math course) and GPA of 2.5 or higher with preference given to students with 95% attendance. Students must also be enrolled in a career center class (courses #9000 and above).

College algebra credit is available to eligible seniors taking a career center class. The full-year dual enrollment College Algebra course is an offering of Linn State Technical College (LSTC). First semester, students will be in a College Algebra Preparatory Lab to improve skills required for college-level algebra and also prepare for the COMPASS placement test. Students enrolled in first semester will earn 1/2 elective high school credits. Second semester, students with a qualifying COMPASS placement score, will complete the college curriculum for Math 115-College Algebra. Students who meet the course requirements will receive 3 hours of college credit through LSTC and 1/2 math high school credits through their high school. Students will be responsible for paying the tuition charged by the college, the cost of the textbook, and a scientific or graphing calculator. The Coordinating Board for Higher Education has established guidelines for transfer of course credits between Missouri public colleges and universities. For further information, please confirm with the college you plan to attend on www.dhe.mo.gov/credittransfer.shtml.

2010 - 2011 Mathematics Placement

Most classes will make extensive use of the graphics calculator.

Ninth Graders Only			Tenth & Eleventh Graders Only		
If your current math class is:	and your lowest sem. grade is:	then your next math class should be:	If your current math class is:	and your lowest sem. grade is:	then your next math class should be:
Integrated Math 1	A or B or C	Int. Math 2	Integrated Math 1	A or B or C	Int. Math 2
	C or D	Int. Math 2		C or D	Int. Math 2
Algebra 1	F	Int. Math 1 or Algebra 1	Algebra 1	F	Int. Math 1 or Algebra 1
	A or B or C or D	Geometry or Int. Math 2		A or B or C	Geometry
Geometry Honors	F	Int. Math 1 or Alg. 1	Integrated Math 2	F	Algebra 1 or Int. Math 1
	A	Algebra 2 Honors		A or B	Int. Math 3 Honors or Int. Math 3
	B	Algebra 2 Honors or Algebra 2		C or D	Int. Math 3
Integrated Math 2 Honors	C or D	Algebra 2	Geometry	F	Int. Math 2
	F	Geometry		A	Algebra 2 Honors or Algebra 2
	A or B or C or D	Int. Math 3 Honors or Int. Math 3		B or C or D	Algebra 2
Algebra 2 Honors	F	Int. Math 2	Algebra 2	F	Geometry
	A or B	Precalculus Honors or Precalculus		A or B	Precalculus Honors
	C	Precalculus		A or B or C	Precalculus
Algebra 2 Honors	D or F	Algebra 2	Algebra 2 Honors	C or D	College Algebra
				F	Algebra 2
				A or B	Precalculus Honors or Precalculus
Integrated Math 1	A or B or C	Int. Math 2	Algebra 1	A or B or C	Int. Math 2
	C or D	Int. Math 2		D	Geometry
Integrated Math 3	A or B or C	Int. Math 2	Integrated Math 3 Honors	F	Algebra 1 or Int. Math 1
	C or D	Int. Math 1 or Algebra 1		A or B	Int. Math 3 Honors or Int. Math 3
Integrated Math 3	F	Algebra 1	College Algebra	C or D	Int. Math 3
	A or B or C	Geometry		F	Int. Math 2
Integrated Math 3 Honors	A or B or C	Geometry	Precalculus Honors and Precalculus	A	Algebra 2 Honors or Algebra 2
	C or D	Algebra 1 or Int. Math 1		B or C or D	Algebra 2
College Algebra	F	Int. Math 3 Honors or Int. Math 3	Int. Math 4 Honors and Int. Math 4	F	Geometry
	A or B or C or D	Int. Math 3		A or B	Precalculus Honors
Precalculus Honors and Precalculus	F	Int. Math 2	Int. Math 4 Honors and Int. Math 4	A or B or C	Precalculus
	A or B	Algebra 2 Honors or Algebra 2		C	AP Calculus AB or BC
AP Calculus	A or B	Algebra 2	AP Calculus	D or F	Precalculus
	C	College Algebra		A or B	AP Calculus AB or BC
Dual Enrollment	D or F	Algebra 2	Dual Enrollment	C	AP Calculus AB
				D or F	Int. Math 4

For further information or clarification on class offerings, contact:

Hickman High School - Cheryl Lightner (214-3027)
 Rock Bridge High School - Lisa Holt (214-3142)

Additional Options for Seniors	
AP Stat.	Prerequisite: Int. 3 or Alg. 2 or higher and teacher recommendation

PHYSICAL EDUCATION

Career Paths: Health Services and Human Services

Unless otherwise stated, all physical education courses granting ½ credit meet daily for one semester.

1825PE STRENGTH TRAINING AND FITNESS

Zero hour (Grades: 10-12 Credit: 1)

1820PE1 STRENGTH TRAINING AND FITNESS

1820PE2 STRENGTH TRAINING AND FITNESS

(Grades: 10-12 Credit: ½)

1820PE STRENGTH TRAINING AND FITNESS

(Grades: 10-12 Credit: 1)

This is course designed for students to actively exercise and improve their level of fitness. This activity will help develop overall body strength with the use of the overload principle of weight training. Emphasis is also placed on cardio respiratory improvement through running, jumping rope, etc.

1830PE ADVANCED STRENGTH TRAINING AND FITNESS (Grades: 11-12 Credit: 1)

This is a **year-long** course for students who have successfully completed at least one semester of Strength Training and Conditioning. In this course students will focus on core lifts as well as other explosive power lifts. Form running, speed and agility training, core strength development, flexibility and body composition will also be stressed. Students will become proficient in developing their own personal strength training program based on scientific principles.

Current strength training teacher signature required to take this class.

1835PE WOMEN'S STRENGTH TRAINING AND FITNESS (Grades: 10-12 Credit: 1)

This is a **year-long** course designed to encourage and promote females' participation in strength training and aerobic conditioning. This activity will help develop overall body strength with the use of the overload principle of weight training. Emphasis is placed on cardiovascular improvements, such as running and aerobics.

1850PE MEN'S TEAM SPORTS

(Grades: 10-12 Credit: ½)

This course is designed for men who have a desire to keep themselves physically fit and active. Students will participate in daily physical activity which will include but not be limited to the following: Flashball, 7 on 7 football, ultimate Frisbee, soccer, speedball, volleyball, team handball, basketball, lacrosse, softball, **fitness testing/fitness activities**, contests and tournaments.

1845PE WOMEN'S TEAM SPORTS

(Grades: 10-12 Credit: ½)

This course is designed for women who have a desire to keep themselves physically fit and active. Students will participate in daily physical activity which will include but not be limited to the following: flashball, tennis, ultimate frisbee, soccer, speedball, volleyball, team handball, basketball, lacrosse, softball, **fitness testing/fitness activities**, contests and tournaments.

1855PE BODY SCULPTING FOR WOMEN

(Grades: 10-12 Credit: ½)

This course is offered for young women who want to improve or maintain fitness and wellness. Students will participate in activities including Pilates, muscle toning, fitness walking, aerobics, and cardio workouts to improve muscular endurance, strength, flexibility and cardio respiratory endurance.

1885PE LIFETIME FITNESS

(Grades 10-12 Credit: ½)

This course is designed to encourage personal awareness and responsibility for the maintenance of health and physical well being through physical activity. Students will participate in a variety of team, dual and individual activities that can be continued throughout life. General fitness improvement in flexibility, strength, muscular endurance, and cardio respiratory conditioning will be emphasized. This course will encourage the development of positive attitudes toward physical activity and fitness, increase fitness knowledge, increase participation in physical activity and lead to better individual health.

1890PE FITNESS WALKING

(Grades: 10-12 Credit: ½)

Recent studies have shown that increasing your physical activity by a small amount can make huge gains in your health. This class will allow students to improve their health through fitness walking. Students will be expected to walk 2.25 miles per day. Students will not be required to dress out for this class, but must wear appropriate attire for walking outside, ex: sweats, loose fitting jeans, shorts, tennis shoes. **All walking will be done outside unless it is raining, the wind chill is below 0 degrees F or at the teacher's discretion.**

1870PE BEGINNING SWIMMING

(Grades: 10-12 Credit: ½)

This course is designed for those students who have an interest in learning how to swim or for those who want to improve their swimming skills. This course is for all levels of swimming ability and will include water safety and water games.

1875PE SWIMMING FOR FITNESS

(Grades: 10-12 Credit: ½)

This course is designed for the student who wants to improve overall fitness through swimming. Workouts will be adjusted to varying levels of fitness and swimming skills. Water polo, relays, team handball, and other water activities will be included along with workouts.

6550HE HEALTH SCIENCES

(Grades: 10-12 Credit: ½)

This lab-oriented course is designed to increase the knowledge of the human body and raise awareness of health-related issues. The three main areas of study include first aid & safety; fitness and nutrition; and human sexuality and healthy relationships.

1470EL SPORTS MEDICINE

(Grades: 11-12 Credit: ½)

This course examines many aspects related to athletic injuries. It begins by establishing the role of a certified athletic trainer and the entire sports medicine team at all levels of competition. The course identifies all types of athletic injuries and emphasizes proper care and treatment of these injuries. It also discusses ways to prevent injuries in sports as well as methods of rehabilitation once an injury occurs. Students will learn first aid procedures for the injured athlete and taping/splinting techniques for various athletic injuries. The class will utilize both lecture and practical labs to learn these sports medicine skills. This course does not fulfill the physical education or science requirement for graduation.

SCIENCE

Career Paths: Health Services, Human Services, Industrial and Engineering Technology,
and Natural Resource Systems

6610BS BIOLOGY

(Grades: 10-12 Credit: 1 Biological Science)

Biology is a course that explores the topics of cellular biology, genetics, life processes, natural selection, and ecological relationships. Along with an understanding of broad biological concepts and principles, an emphasis is placed on personal needs and societal issues. Labs and activities stress thinking, inquiry, and process skills.

6611BS BIOLOGY (HONORS)

(Grades: 10-12 Credit: 1 Biological Science)

Recommendation: A average in science courses or teacher approval

Honors Biology explores the same fundamental biological concepts as Biology. However, it requires a more detailed and in-depth analysis of selected biological concepts. The course provides more opportunities for long-term assignments and projects. Intensive writing and reading assignments require that students possess above average language skills.

6612BS BIOLOGY 2

(Grades: 11-12 Credit: 1 Biological Science)

Recommendation: C or higher grade in Biology or teacher approval

An elective course, Biology 2 requires a basic understanding of cell functions, genetics, ecology, and evolution. Studies will focus on plants, animals, fungi, and microorganisms, with a strong emphasis on group work and the development of research and laboratory skills. The course will also focus on developing communication skills, working in group situations, and collecting and processing information. The grade for Biology 2 will be based upon quality completion of student projects, which illustrate the student's understanding of core questions.

6614BS EXERCISE PHYSIOLOGY

(Grades: 11-12 Credit: 1 Biological Science)

Recommendation: C or higher grade in Biology or teacher approval

In this course students will learn the physiology of sporting events and gain the knowledge to develop and maintain lifelong fitness. Topics will include energy systems, diet and nutrition, body composition, weight control, dehydration, heat acclimation, and training methods (including weight resistance training and conditioning for sprint and endurance events). Upon completion of the course, students will be able to design weight resistance and physical conditioning programs, including off- pre- and in-season components for a variety of sporting events. The students will also be able to design a lifelong cardiovascular fitness program for themselves and others. Exercise Physiology is approved as a core course for the NCAA.

6615BS HUMAN GENETICS

(Grades: 11-12 Credit: 1 Biological Science)

Recommendation: C or higher grade in Biology or teacher approval

Human Genetics is designed to meet the needs of those students who have completed a one-year course in biology and want to learn more in the area of human genetics. Topics studied will include human development, human heredity, molecular genetics, population genetics, and biotechnology. Integral to the course is the examination of ethical dilemmas

which have been created by new genetic technologies. The course will investigate careers relating to all areas of genetics. Upon completion of the course students will be able to analyze all aspects of research relating to a genetic disorder of choice.

6620BS ADVANCED PLACEMENT BIOLOGY

(Grades: 11-12; Credit: 1 Biological Science)

Recommendation: B in Chemistry, B in Biology or instructors approval

AP Biology is a college-level course designed to provide advanced students with the conceptual framework, factual knowledge and analytical skills necessary to deal critically with the rapidly changing science of biology. Students must have the discipline to read extensively for understanding and should expect rigorous and intensive course work typical of Advanced Placement courses. Topics include: biochemistry, cellular biology, classical genetics, genetic technology, ecology, evolution and development. This course, along with a supplemental individual study plan, will prepare students for the Advanced Placement Exam in Biology.

6621BS HUMAN ANATOMY AND PHYSIOLOGY

(Grades: 11-12 Credit: 1 Biological Science)

Recommendation: C or higher grade in Biology or teacher approval

Human Anatomy & Physiology is designed to meet the needs of those students interested in learning more about the structure and function of the human body. In addition to studying the basic anatomy of each organ system, students will spend time in activities oriented toward a better understanding of the function of each system. Nutrition, fitness, disease, and preventive medicine will be taught. **Dissection is required in this course.**

6622BS HUMAN ANATOMY AND PHYSIOLOGY HONORS

(Grades: 11-12 Credit: 1 Biological Science)

Recommendation: A average in Biology or B or higher grade in Honors Biology

Human Anatomy and Physiology Honors is designed to meet the needs of students who are considering a career in the medical field and want to learn more about the structure and function of the human body. This course will cover the same topics as Human Anatomy and Physiology but selected organ systems will be dealt with in greater depth and detail. **Dissection is required in this course.**

6629PS ENVIRONMENTAL SCIENCE

(Grades: 11-12 Credit: 1 Physical Science)

Recommendation: C or higher grade in Biology or teacher approval

Environmental Science is a course for students who are interested and concerned about the environment, conservation of the natural world, and the effect of the human population on the planet. Major units of study will include natural resources, population and community ecology, biodiversity and extinction, environmental issue analysis, climate, energy, solid waste and water quality.

6634PS CHEMCOM**(Grades: 10-12 Credit: 1 Physical Science)***Recommendation: Math and Science teachers' approval and a C or higher grade in Integrated Math 1 or Algebra 1*

ChemCom explores traditional chemical concepts and principles using a thematic approach. Emphasis is placed on decision-making and understanding chemistry's impact on society. Some of the thematic units are water quality, resource management, petroleum usage, and nuclear chemistry. ChemCom utilizes vocabulary, thinking skills, and mathematical problem solving similar to that in Chemistry and the topics covered are essentially the same.

6635PS CHEMISTRY**(Grades: 10-12 Credit: 1 Physical Science)***Recommendation: Math and science teachers' approval and a C or higher grade in Integrated Math 1 or Algebra 1*

Chemistry explores traditional chemical concepts and principles using a conceptual/mathematical approach. Emphasis is placed on understanding the basic scientific theories underlying the study of chemistry. Topics include gas properties, structure of matter, chemical equations, and chemical reactions. This course develops the fundamental principles of chemistry and their applications through hands-on laboratory experiences.

6636PS CHEMISTRY (HONORS)**(Grades: 10-12 Credit: 1 Physical Science)***Recommendation: Math and science teachers' approval and a B in Geometry or Integrated Math 3, or concurrently enrolled in Honors Integrated Math 3.*

Chemistry Honors explores complex chemical concepts and principles using a rigorous mathematical approach. This course covers the same basic topics as Chemistry, but develops those topics to a greater depth. Emphasis is placed on learning laboratory techniques, developing problem-solving skills, and synthesizing chemical information.

6637PS ADVANCED PLACEMENT CHEMISTRY**(Grades: 11-12 Credit: 1 Physical Science)***Prerequisite: "B" in Algebra II and a "B" in Honors Chemistry or teacher approval.*

AP Chemistry is a college level course intended for students wishing to pursue careers in engineering, medicine, and/or the natural sciences. Students will learn how to logically and scientifically express their ideas, deepen their understanding of fundamental concepts, and improve their competence in solving chemical problems. Problem solving will be both qualitative and quantitative. Mathematical reasoning will be stressed. This course will prepare students for the AP Chemistry Exam.

6645PS PHYSICS**(Grades: 11-12 Credit: 1 Physical Science)***Recommendation: Average or above-average mathematics competency with a C or better in Algebra 2 or Integrated Math 3. All necessary mathematics skills are practiced within the context of physics.*

Physics is a mathematically based course that explores the way in which the basic systems of nature operate. Areas of study include mechanics, waves, optics, and electricity. This course builds upon the concepts that were learned in Physics 9. The fundamental principles and applications of physics are developed through hands-on laboratory experiences. Writing skills, data analysis, and graphing skills are emphasized throughout the course.

6647PS ADVANCED PLACEMENT PHYSICS B**(Grades: 11-12 Credit: 1 Physical Science)***Recommendation: Above average mathematics competency and good writing skills. Students should have successfully completed Algebra 2 or Integrated Math 3 and have approval from their science and math teacher*

AP Physics B is a college-level course designed to provide advanced students with the conceptual framework, factual knowledge and algebraic knowledge to solve physics based problems. This course will yield a solid foundation for students wishing to pursue future studies in science and engineering. Topics include mechanics, fluids, thermodynamics, electricity, magnetism, waves, optics, and atomic and nuclear physics. This course will prepare students for the AP Physics B Exam.

6650PS ADVANCED PLACEMENT PHYSICS C: MECHANICS**(Grades: 11-12 Credit: 1 Physical Science)***Prerequisite: Students should be concurrently enrolled in Calculus BC or have successfully completed a year of credit in Calculus AB and have approval from their science and math teacher*

AP Physics C is a college-level course designed to provide advanced students with the conceptual framework, factual knowledge and calculus knowledge to solve physics based problems. This course will yield a solid foundation for students wishing to pursue future studies in science and engineering. Topics include linear and rotational dynamics, energy and momentum, wave theory, and thermodynamics. This course will prepare students for the AP Physics C: Mechanics exam.

6639PS ASTRONOMY (HONORS)**Grade Level: 11, 12 Credit: 1 Physical Science***Pre: Algebra 2 or Integrated Math 3 and instructor approval*

Astronomy is the oldest of the sciences and has always been concerned with our place in the Universe. This course is designed for the student who wishes an in-depth exploration of the science of astronomy from the past to the cutting-edge of modern research. Topics include observational astronomy, life cycles of stars, exploding stars and black holes, relativity, galaxies, cosmology and planetary science. A good working knowledge of algebra and some trigonometry is expected.

6640PS INTRODUCTION TO ASTRONOMY**Grade Level: 11, 12 Credit: 1/2 Physical Science***Pre: Geometry or Integrated Math 2*

Introduction to Astronomy is a beginner's guide to the science of Astronomy. This survey course will emphasize the basics of observational astronomy such as using star charts, moon phases, and seasons. It will also include introductions to topics such as the make up of the solar system, stars and star lives, and our place in the Universe.

699SC INDEPENDENT STUDY IN SCIENCE/ RESEARCH PRACTICUM**(Grades: 11-12 Credit: ½)**

Independent Study is an opportunity for advanced work on special topics and is not intended to take the place of a currently offered class. Independent study may be pursued if a teacher volunteers to supervise and assess the student's progress and the student presents an outline of his/her proposed activities and objectives. The established procedures for enrolling in Independent Study must be followed, including approval by counselor, teacher, department chair and principal.

SOCIAL STUDIES

Career Paths: Human Services

4301GV GOVERNMENT (Grades: 10-12 Credit: ½)

One Semester

This course is designed to satisfy the state requirement for high school graduation, including the U.S. and Missouri Constitutions. Among the topics to be explored are organizational structures, rules, and responsibilities of government at the national, state, and local levels.

4501WH WORLD HISTORY (Grade: 10 Credit: 1)

This course utilizes a chronological, as well as cause and effect, approach to the study of world history. During the first semester students will study the important events, people, and civilizations from the earliest river valley civilization up through approximately 1300 CE. In the second semester students will continue their study of world history from approximately 1300 CE up through modern times. Throughout the school year the four key themes of belief systems, cultural and intellectual achievements of civilizations, human-environmental interaction, and the organization and distribution of power will provide a focus for instruction and assessment. Individual and group projects are utilized to enrich the students' classroom experience. The world history graduation requirement is satisfied by this course.

0520NC WORLD STUDIES/ENGLISH 10 (CONNECTIONS)

(Grade: 10 Credits: 1 World History + 1 English—2 Hour Block)

Connections offers students the opportunity to focus on active learning as they fulfill the sophomore world history and English graduation requirements. This offering integrates the content of both courses and emphasizes expression in writing, visual art, drama, and music. Students will be encouraged to develop individual projects which demonstrate their own creativity. Primary sources and numerous additional texts provide the written resources for this course. This course is taught by an English teacher and a world history teacher during a daily two-hour block. This combination of English and history curricula requires that students be motivated, independent learners able to synthesize ideas from both subjects in a large classroom environment. Students who successfully complete this offering will earn an English credit and a world history credit. Students in this interdisciplinary course will receive the same grade for both English and Social Studies sections.

4502WH WORLD HISTORY (HONORS) (Grade: 10 Credit: 1)

This course utilizes a chronological, as well as a cause and effect, approach to the study of world history. During the first semester students will study the important events, people, and civilizations from the earliest river valley civilizations up through approximately 1300 CE. In the second semester students will continue their study of world history from approximately 1300 CE up through modern times. Throughout the school year the four key themes of belief systems, cultural and intellectual achievements of civilizations, human-environmental interaction, and the organization and distribution of power will provide a focus for instruction experience. Students in this course should possess above average reading, writing, and language skills. In addition, students in this course should possess an above average willingness to participate in

class discussions, as well as a willingness to put forth the extra effort required to successfully meet the academic challenges of an honors class. The world history graduation requirement is satisfied by this course.

0527NC ADVANCED PLACEMENT WORLD HISTORY/WORLD LITERATURE (HONORS) (Grade: 10 Credits: 1 World History + 1 English—2 Hour Block)

This Advanced Placement course provides for an interdisciplinary study of world literature and world history which integrates Advanced Placement World History and English 10 Honors. The processes of reading, writing, and research are emphasized in a rigorous examination of world history and classic literature from earliest civilizations to the modern era. This course is taught by an English teacher and a world history teacher during a daily, two-hour block. This combination of English and history curricula requires that students be motivated, independent learners able to synthesize ideas from both subjects in a large classroom environment. After successful completion of this course, students will receive one credit in English and one credit in world history and may elect to take the College Board Advanced Placement World History Exam. *Selecting this course requires high motivation and individual responsibility, strong reading and writing skills and an avid interest in history, literature, and writing.* Students in this interdisciplinary course will receive the same grade for both English and Social Studies sections.

4601US UNITED STATES HISTORY SURVEY (Grade: 11 Credit: 1)

This course explores the development of the United States and its world relationships from the period of exploration and discovery to the space age. A general survey course, U.S. history explores economic, social, political, and diplomatic development using writing, projects, primary sources, and research.

0530NC U.S. STUDIES

(Grade: 11 Credits: 1 U.S. History + 1 English—2 Hour Block)

This American Studies course integrates U.S. history and literature in an examination of what it means to be an American in today's society. The course begins by posing the question of European exploration as discovery versus invasion of North America and continues through the history being made today. An interdisciplinary approach means that history is used to better understand literature and literature humanizes history. Students will read varied types of literature representative of historical time periods, i.e., journals and speeches from the Colonial Period, poetry of the Revolution, letters from the Civil War, and short stories from the Vietnam era. This course is designed to foster growth in vocabulary, research, analysis, and interpretation, along with verbal and written communication. This course is taught by an English teacher and a U.S. history teacher during a daily, two-hour block. This combination of English and history curricula requires that students be motivated, independent learners able to synthesize ideas from both subjects in a large classroom environment. Students who successfully complete this course will earn both one English and one U.S. History credit. Students in this interdisciplinary course will receive the same grade for both English and Social Studies sections.

4602US UNITED STATES HISTORY (HONORS)**(Grade: 11 Credit: 1)**

This honors course is a survey of United States history that emphasizes written work, critical assessment of the topic and utilizes outside readings. Students who enroll in this course should possess above average reading, writing, and language skills. This curriculum is NOT designed to prepare students for the Advanced Placement examination.

4603US ADVANCED PLACEMENT UNITED STATES HISTORY**(Grades: 11-12 Credit: 1)**

Course content covers the period of exploration and discovery to the space age, and explores the development of the United States and its world relationships. This course is designed to help students gain skills and information needed to pass College Board's Advanced Placement tests. Selecting this course requires high motivation and individual responsibility, superior reading and writing skills, and an avid interest in history. Students must be recommended by their current social studies and English teachers, both of whom must sign the enrollment form.

0540NC ADVANCED PLACEMENT UNITED STATES HISTORY/AP ENGLISH LANGUAGE AND COMPOSITION**(Grade: 11 Credit: 1 U.S. History + 1 English—2 Hour Block)**

This course integrates Advanced Placement U.S. History and Advanced Placement Language and Composition. The course is structured to assist students in perfecting their reading, writing, research, and critical thinking skills through a rigorous analysis of American history and literature. The intensive, interdisciplinary focus of the course is designed to prepare students for success on the College Board's examinations in both U.S. History and Language and Composition as well as college level work in both disciplines. Students must be recommended by their current social studies and English teachers. This course is taught by an English and a history teacher during a daily two-hour block. This combination of English and history curricula requires that students be motivated, independent learners able to synthesize ideas from both subjects in a large classroom environment. Students who successfully complete this course will earn both an English and a U.S. History credit. Students in this interdisciplinary course will receive the same grade for both English and Social Studies sections.

The following courses do not meet World History or U.S. History graduation requirements, but do count toward graduation as social studies elective credits.

4806SS ADVANCED PLACEMENT EUROPEAN HISTORY**(Grades: 11-12 Credit: 1)**

A discussion-based and writing-intensive format reflects the course's college-level expectations. Subject matter focuses on Western Europe since the mid-fifteenth century, encompassing political, diplomatic, intellectual, social and economic history. This course is designed to help students gain the skills and information needed to pass the College Board's Advanced Placement examination.

4801SS AFRICAN-AMERICAN STUDIES-ROOTS*First Semester only***(Grades: 11-12 Credit ½)****4802SS AFRICAN-AMERICAN STUDIES-THE 20TH CENTURY***Second Semester only***(Grades: 11-12 Credit ½)**

Students enrolled will study the culture, history and contributions of Americans of African descent. First semester study will begin with Africa, historical and contemporary, and conclude with World War I. Topics studied in the first semester may include the Ashanti and Yoruba, Mali, Songhay, slave daily life, the AME Church, Voudon, the Abolitionist movement, lynching and Jim Crow, spirituals, ragtime and blues, and WEB DuBois. Second semester study will begin with World War I and conclude with current issues. Second semester topics may include the Black Renaissance, Jacob Lawrence, jazz, R&B, soul and rap, World War II, the modern Civil Rights Movement, SNCC, the Black Panthers, the Nation of Islam, Dr. Martin Luther King, Jr., Louis Farrakhan, affirmative action, and the rise of hip-hop culture. Second semester also includes reading *The Autobiography of Malcolm X* or Barack Obama's *Dreams From My Father*. Students will use a variety of resources including written primary and secondary sources, video, film, and interviews, as well as their own experiences. *Students are strongly encouraged to enroll in both semesters of this course.*

4800SS WORLD GEOGRAPHY**(Grades: 10-12 Credit: 1)**

Students enrolling in World Geography will study the physical make-up of planet Earth. Included in that study will be factors dealing with population, cultural patterns and processes, political organization of space, agricultural and land use, urbanization, industrialization, and economic development. The course will be problems-based so that students may examine physical regions within the context of the cultural environment. This course may be taken by semester for 1/2 credit, or both semesters for one credit.

4808SS LAW IN OUR SOCIETY**(Grades: 11-12 Credit: 1)**

Law in Our Society is an elective course that examines people's rights under the law as well as how laws are applied to real life. The purpose of this course is to help students develop their knowledge of law and their legal rights as well as to provide an opportunity to apply judicial concepts in simulated legal situations. First semester topics include the study of laws and the legal system through both historical and contemporary lenses and the study of civil law (torts). The course of study during the second semester includes the topic of individual rights and liberties, especially those outlined in the Bill of Rights. Supreme Court cases that shaped our national history will be studied in both semesters. Students in this course will have the opportunity to hear oral arguments by the Western Circuit Court of Appeals as well as the Missouri Supreme Court. The subject matter and pace of study in Law in Our Society requires above average reading, writing, and language skills. The course may be taken by semester for 1/2 credit, or both semesters for one credit.

**4803SS ANTHROPOLOGY/ARCHEOLOGY
(Grades: 10-12 Credit: 1) (Offered in 2010-11)**

Anthropology is the study of humans in all times and places. Archaeology is the study of human material remains in order to better understand human history. Using archaeological research and methods, this year-long course will provide a scientific view of the origin, development, and culture of humans. In addition to creationist views of a variety of cultures, students will study the biological aspects of being human, including reasons for changes in the brain and skeleton in the past three million years. Students will then examine the cultural development of humans in a variety of primitive and advanced societies, both ancient and modern. This course culminates with a mock archaeological dig and museum exhibition. Instruction will include a variety of resources and guest speakers whenever possible.

4811SS PSYCHOLOGY: EXPLORATION OF MIND AND SELF

(Grades: 11-12 Credit: ½)

Recommendation: Traditionally this course has been paired with Sociology (4813SS) and this department recommends that students take both classes in the same year

Psychology is designed to explore the human mind. The purpose of this course is to introduce students to the systematic study of this most amazing social science. Topics may include the biological basis of behavior, sleep and dreaming, and the effects of various drugs on the human mind and body. The development of personality and intelligence will also be explored. A particular focus will be on abnormal psychology and treatment of psychological disorders. There is an emphasis on reading, writing, and discussion preparatory to careers that may include law, social services, politics, criminal justice, and business.

4813SS SOCIOLOGY: CONTEMPORARY ISSUES IN AMERICAN SOCIETY

(Grades: 11-12, Credit ½)

Recommendations: Traditionally this course has been paired with Psychology (4811SS) and this department recommends that students take both classes in the same year.

This course is designed to introduce students to sociological concepts and methods presented within the context of relationships among individuals and groups in modern society. Students will study both the history and the current relevance of issues such as race and ethnicity, culture and socialization, deviance and social control, education, and religion. Students will have an opportunity to establish a foundation for better understanding these issues while participating in group discussions, debates, group projects, and presentations. There is an emphasis on reading and writing in this course.

**4812SS ADVANCED PLACEMENT PSYCHOLOGY
(Grades: 11-12, Credit: 1)**

This course is designed to help students gain the skills and information needed to pass the Advanced Placement examination. This course will present students with the psychological facts, principles, and phenomena associated with each of the major subfields within psychology as well as contemporary research methods used by psychologists. Successful students are above average readers and writers and accomplished in formal, analytical writing. Students must be recommended by their current social studies and English teachers, both of whom must sign the enrollment form.

4706SS ADVANCED PLACEMENT GOVERNMENT

The two AP Government courses listed below are linked classes and students are expected to complete both semesters. This course is taught at the college level and prepares students to take both subject Advanced Placement examinations. This reading and writing intensive class is organized around a class discussion format. Students must be recommended by and obtain the signatures of their current Social Studies and Language Arts teachers on the enrollment form.

**ADVANCED PLACEMENT U.S. GOVERNMENT
(Grades: 10-12, Credit: ½)**

This course may not meet the state government requirement for graduation. Special permission to use this course to meet the state requirement is required from both the Social Studies department chair and the course instructor.

This course will prepare students for the Advanced Placement United States Government & Politics examination through an in-depth examination of the government of the United States that includes a focus on political beliefs and behaviors, political parties, interest groups, mass media, public policy, civil rights, and civil liberties.

**ADVANCED PLACEMENT COMPARATIVE POLITICS
(Grades: 10-12, Credit: ½)**

This course will prepare students for the Advanced Placement Comparative Government & Politics examination. Students will be introduced to the fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of national contexts; while gaining understanding of diverse political structures and practices throughout the world. Specific attention will be paid to the government and politics of Great Britain, Russia, China, Iran, Mexico and Nigeria.

**4899SS INDEPENDENT STUDY IN SOCIAL STUDIES
(Grades: 11-12, Credit: ½)**

Independent Study: Independent Study is an opportunity for advanced work on special topics and is not intended to take the place of a currently offered class. Independent study may be pursued if a teacher volunteers to supervise and assess the student's progress and the student presents an outline of his/her proposed activities and objectives. The established procedures for enrolling in Independent Study must be followed, including approval by counselor, teacher, department chair and principal.



TECHNOLOGY EDUCATION

Practical Art Credits

These technology courses are taught at Hickman.

Career Path: Arts & Communications and Industrial & Engineering Technology

7710PA AEROSPACE 1

(Grades: 10-12 Credit: 1 Practical Art)

Follow-up Courses: Aerospace 2 or any Technology Education course.

The Columbia Aeronautics and Space Association (CASA) is an aerospace simulation that gives students many opportunities to apply their knowledge and skills in a problem-solving environment. In CASA, students replicate NASA Technologies and experiments in a student directed, hands-on simulation. Students will expand their knowledge in science and technologies incorporating what they've learned in projects.

7715PA AEROSPACE 2

(Grades: 11-12 Credit: 1 Practical Art)

(Prerequisites: B or higher grade in Aerospace 1)

Follow-up Courses: Advanced Aerospace or any Technology Education course.

After completing their first year in the mission, students are able to develop their own personal skills and integrate them into their involvement in CASA, along with taking on more leadership responsibilities.

7720PA ADVANCED AEROSPACE

(Grade: 12 Credit 1 Practical Art)

(Prerequisite: B or higher grade in Aerospace 2)

Students will take leadership positions in the Columbia Aeronautics and Space Association (CASA). They will design and upgrade the facilities, make public presentations and lead the training of CASA teams. Problem solving, group work and independent decision-making skills are a few of the dynamics students will learn which are applicable in higher education and the work environment.

7730PA THEATRE TECHNOLOGY 1

(Grades: 10-12 Credit: 1 Practical Art)

Follow-up Courses: Any Technology Education Course.

Learn to design, construct, and manage scene sets for theatre productions. Students will learn the basics of designing theatre sets and they will learn how to safely use construction tools when building sets. Students will participate in the construction of scene sets for various school plays and musicals and will have the opportunity to be members of actual technical crews for plays and musicals.

7735PA THEATRE TECHNOLOGY 2

(Grades: 10-12 Credit: 1 Practical Art)

Prerequisite: B or higher grade Theatre Technology 1 or appropriate course

Follow-up Courses: Any Technology Education Course.

Students who enjoyed successful participation in Theatre Technology 1 and still desire additional stage set construction activities should enroll in Theatre Technology 2. In addition to further development of leadership and problem-solving activities, in-depth creative activities in set construction, props, lighting and sound will be stressed.

7740PA THEATRE TECHNOLOGY 3

(Grades: 11-12 Credit: 1 Practical Art)

Prerequisite: B or higher grade in Theatre Technology 2

Students who have developed a strong interest in the technical aspects of theatre should enroll in Theatre Technology 3. These students would have leadership responsibilities and be able to focus on a specific area: set and scenic design, lighting, or sound design, etc.

7750PA HOME IMPROVEMENT

(Grades: 10-12 Credit: 1 Practical Art)

Follow-up Courses: Any Technology Education course, Introduction to the Construction Industry, Construction Technology 1, or Commercial and Residential Wiring 1.

Home Improvement is a course designed for those students desiring basic knowledge of the tools and skills needed to maintain a house. Projects will simulate real life situations in framing, electrical, drywall, roofing, and plumbing.

7755PA WOOD TECHNOLOGY 1

(Grades: 10-12 Credit: 1 Practical Art)

Follow-up Courses: Any Technology Education course, Introduction to the Construction Industry, Construction Technology 1, or Commercial and Residential Wiring 1

Wood Technology 1 introduces students to the basic designs and processes used in woodworking. Planning, constructing, and machine safety will be emphasized throughout the year. Project work will include both required, and individually designed projects as a part of the class. Various wood associated materials will be utilized in small to medium sized projects. Career exploration, problem solving and applied math and science principles will be stressed through project work.

7760PA WOOD TECHNOLOGY 2

(Grades: 11-12 Credit: 1 Practical Art)

Prerequisite: C or higher grade in Wood Technology 1

Follow-up Courses: Any Technology Education course, Introduction to the Construction Industry, Construction Technology 1, or Commercial and Residential Wiring 1.

In this advanced course students build projects that require a greater variety of tools than were used in Wood Technology 1. This class is designed for students interested in developing and refining their woodworking skills by planning and manufacturing instructor-approved projects.

7770PA CONSUMER CAR CARE

(Grades: 10-12 Credit: ½ Practical Art)

Follow-up Courses: Any Technology Education course or Automotive Technology 1

Get a jump on being a car owner! Students will learn what to look for when buying a car, routine maintenance and basic repair, preparations for selling a car, and facts about financing and insurance. Used cars carry many signs of wear. Paint discoloring, tire-wear, interior damages, and engine noises can tip off young buyers. Learn what these signs mean and how they can affect the value of a car. Engines need to be kept clean, inside and out, the interior should be cared for, and the body needs attention as well. Find out how to follow maintenance programs and the best ways of keeping your car clean and running well. Buying a car for the right price, keeping it in top shape, and advertising will help you when it comes time to sell your car. There is also time to discuss accessories, modified performance, and alternative fuel systems.

OTHER PROGRAMS

HIGH SCHOOL-COLLEGE DUAL ENROLLMENT

Students with junior or senior class standing may apply to take courses at Columbia College, Moberly Area Community College, Stephens College or MU. Students must be carrying a college preparatory course of study with a minimum GPA of 3.0. Applications are available in the Guidance Center. Applicants will be screened and final determination of acceptability will be through the admissions office of the college. Students are responsible for the fees charged by the colleges. Students may apply to earn high school credit for college work. See your counselor for details.

DUAL ENROLLMENT

(Grades: 11-12)

1500 DUAL ENROLLMENT University of Missouri

1520 DUAL ENROLLMENT Stephens College

1510 DUAL ENROLLMENT Columbia College

1530 DUAL ENROLLMENT Moberly Area Community College

Columbia Area Career Center and Linn State Technical College

1525MA MATH 115-COLLEGE ALGEBRA

(Grade: 12 Credit: ½ elective and ½ math)

Prerequisite: Grade B or better in Integrated Math 3 or Algebra 2 (or higher level math course) and GPA of 2.5 or higher with preference given to students with 95% attendance. Students must also be enrolled in a career center class.

College algebra credit is available to eligible seniors taking a career center class. The full-year dual enrollment College Algebra course is an offering of Linn State Technical College (LSTC). First semester, students will be in a College Algebra Preparatory Lab to improve skills required for college-level algebra and also prepare for the COMPASS placement test. Students enrolled in first semester will earn .5 elective high school credits. Second semester, students with a qualifying COMPASS placement score, will complete the college curriculum for Math 115-College Algebra. Students who meet the course requirements will receive 3 hours of college credit through LSTC and .5 math high school credits through their high school. Students will be responsible for paying the tuition charged by the college, the cost of the textbook, and a scientific or graphing calculator. The Coordinating Board for Higher Education has established guidelines for transfer of course credits between Missouri public colleges and universities. For further information, please visit www.dhe.mo.gov/credittransfer.shtml and confirm with the college you plan to attend.

NON CREDIT DESIGNATIONS

0025 JANUARY GRADUATE

0020 JUNIOR GRADUATE

0120NC DAILY STUDY HALL

0124NC ALTERNATING STUDY HALL

0150NC OFFICE AIDE

1435NC A+ TUTORING

Participants in the A+ program who wish to perform the required 50 hours of tutoring during the school day may select A+ Tutoring as a non-credit option. Students work daily until 50 or more hours are completed.

David H. Hickman High School

“Home of the Kewpies”

1104 North Providence Road

Columbia, MO 65203

(573) 214-3000

(573) 214-3057 fax

www.columbia.k12.mo.us/hhs/html/html

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Assistant Principals' Office – (573) 214-3070

Guidance Office - (573) 214-3008

Student Activities/Athletic Office - (573) 214-3007

Mr. Michael P. Jeffers, Principal

Mr. Doug Mirts, Assistant Principal/Activities and Athletics

Ms. Denise Herndon, Assistant Principal A-D

TBA, Assistant Principal E-K

Dr. Tracey Conrad, Assistant Principal L-R

Mr. Jerome Sally, Assistant Principal S-Z

Ms. Susan McWilliams, Director of Guidance, Counselor H-I

Mrs. Susan Matthews, Counselor A-C for Seniors, A-B for Sophomores and Juniors

Mrs. Pam Massey, Counselor D-G for Seniors, C-G for Sophomores and Juniors

Mrs. Symone Langston-Thomas, Counselor for J-K

Mrs. Leigh Spence, Counselor L-N for Seniors, L-O for Sophomores and Juniors

Mrs. Paige Reed, Counselor O-Sh for Seniors, P-S for Sophomores and Juniors

Mrs. Robin Hogan, Counselor Si-Z for Seniors, T-Z for Sophomores and Juniors

Mrs. Cheryl Patterson, Counselor Si-Z for Seniors, T-Z for Sophomores and Juniors

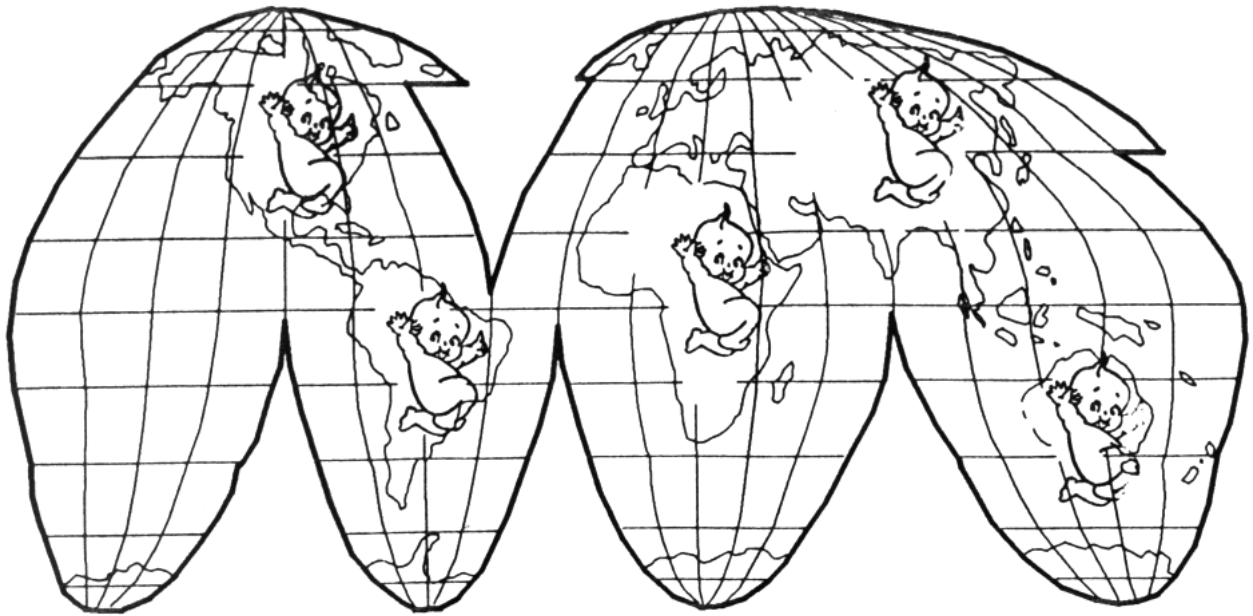
Mrs. Darci McCannon-Humphrey, EEE Counselor

Ms. Maria McMahon, Outreach Counselor

Mrs. Hannah Wren, Success Center Counselor

The Columbia Public School District does not discriminate on the basis of race, creed, color, sex, national origin or handicap in making the various educational and vocational programs available to otherwise qualified students. Each student is eligible to enroll in any program for which he/she is qualified.

HICKMAN HIGH SCHOOL



“A Tradition of Excellence Around the World!”