

Liberty Public Schools Career and Educational Planning Guide 2018-2019



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INTRODUCTION

The *Career and Education Planning Guide* provides information regarding the academic programs/courses offered by Liberty Public Schools for the 2018-2019 school year. In addition, the guide provides information regarding graduation requirements, AP/Dual Credit opportunities, athletic eligibility in high school and college, A+ program requirements, as well as post-secondary planning information. Students are encouraged to use this guidebook along with input/advice from parents, teachers, counselors, and administrators in order to select courses that will allow students to prepare for graduation and post-secondary opportunities that align with their goals.

HIGH SCHOOL CONTACT INFORMATION

Liberty High School
 200 Blue Jay Dr.
 Liberty, MO 64068
 (816) 736-5340
 Principal: Dr. April Adams

Liberty North High School
 1000 NE 104th St.
 Liberty, MO 64068
 (816) 736-5500
 Principal: Dr. Martin Jacobs

COUNSELING INFORMATION

Counselors at each high school will work with assigned students to make sure they are selecting courses that lead toward graduation and post-secondary goals. If you have questions about the enrollment process, please speak with your student’s counselor. If you are not sure how to reach your student’s counselor, or who your student’s counselor is, you may obtain that information by contacting the counseling office of your student’s high school.

Liberty High School Counseling Office
 (816)736-7046

Liberty North High School Counseling Office
 (816)736-5506

LIBERTY PUBLIC SCHOOLS GRADUATION REQUIREMENTS

Curricular Areas	Graduation Credit Requirements	Recommended College Preparatory
English Language Arts	4*	4*
Social Studies	3**	3**
Mathematics	3	4
Science	3	3
Fine Arts	1	1
Practical Arts	0.5	0.5
Physical Education	1	1
Personal Finance	0.5	0.5
Health	0.5	0.5
Electives	9	8***
Total	25.5	25.5
*Must include 1-credit Eng Lang Arts 9, 1-credit Eng Lang Arts 10, and 2-credits Eng Lang Arts Electives		
**Must include 1-credit American Hist, 1-credit World Hist, and 1-credit American Government & Econ		
***At least 2-credits in the same International Language and at least 2 or more additional credits from English Language Arts, Math, Science, Social Studies, & Fine Arts		

POST-HIGH SCHOOL ADMISSIONS REQUIREMENTS*

CURRICULAR AREAS	ENTERING FRESHMAN UNIVERSITY OF MISSOURI SYSTEM	ENTERING FRESHMAN KANSAS BOARD OF REGENTS SYSTEM	MISSOURI PUBLIC 4 YEAR COLLEGES	COMMUNITY & TECHNICAL COLLEGES	MILITARY CAREERS	APPRENTICESHIPS
GENERAL REQUIREMENTS	Appropriate class rank and a minimum score of 24 on the ACT (For Automatic Admission)	ACT score of 21, rank in the top 1/3 of the class upon completion of 7 of 8 semesters, and complete the Qualified Admission pre-college curriculum with a minimum GPA of 2.5 on a 4.0 scale.	Appropriate class rank and ACT score	High school diploma, Missouri Option/Adult HiSet ACT or other placement test as required by institution	High school diploma, Missouri Option, or Adult HiSet (ASVAB score may be required)	Most require a high school diploma, Missouri Option, or Adult HiSet and to be at least 18 years old
ENGLISH LANGUAGE ARTS	4 units		4 units			
SOCIAL STUDIES	3 units (0.5 unit Gov't)		3 units (0.5 unit Gov't)			
MATHEMATICS	4 units (Alg I & Higher)		3 or 4 units Depending on School (Alg I & Higher)			
SCIENCE	3 units (2 of 3 units from Bio, Chem, Physics & Earth Science)		3 units (No general science, 1 unit must be a lab class)			
FINE ARTS	1 unit		1 unit			
PRACTICAL ARTS	0 units		0 units			
PHYSICAL EDUCATION	0 units		0 units			
ELECTIVES	5 units		6 units			
ADDITIONAL ELECTIVES	2 units (2 years of the same international language)		3 units (selected from international language &/or core courses)			
TOTALS	22 units		22 units			

*All requirements are subject to change by each institution without notice. It is recommended you verify enrollment requirements at each institution's website.

ADVANCED PLACEMENT (AP) COURSE OFFERINGS

Advanced Placement (AP) is a program of college-level courses and exams that give high school students the opportunity to receive college credit. Since AP courses and exams are generally junior or senior year experiences, parents and students anticipating college should plan early, including the 9th and 10th grades. In order to take full advantage of AP opportunities, the appropriate prerequisite courses must be taken. The following AP courses are available:

AP American Government	AP English Lit & Comp	AP Physics II
AP Biology	AP English Lang & Comp	AP Psychology
AP Calculus AB	AP Environmental Science	AP Statistics
AP Calculus BC	AP European History	AP Studio Art
AP Chemistry	AP Music Theory	AP U.S. History
AP Computer Science	AP Physics I	AP World History

The AP exams corresponding to these courses are given in LPS on the national test dates in May. The approximate cost is \$100.00 for each AP exam taken. Most AP exams include two sections: multiple-choice and free-response (essays, problems, portfolios or taped responses). Each examination receives an overall grade on a five-point scale, interpreted as follows:

- 5—Extremely well-qualified
- 4—Well qualified
- 3—Qualified
- 2—Possibly qualified
- 1—No recommendation

AP score reports become available during the summer to students, high school administrators, and to the colleges requested by the students. Colleges determine the conferral of credit based on exam scores. This information can be accessed at <https://apstudent.collegeboard.org/creditandplacement/search-credit-policies>. Many colleges accept scores of 3 or better and give students credit as if they had taken one of the more basic courses in the field. In some cases, a basic course may be waived, allowing students to begin their program of study with more advanced coursework.

More information can be found at <https://student.collegeboard.org/>

DUAL CREDIT

Students have the opportunity to earn high school as well as college-level credit for the following courses offered at the high school level. Students must meet all qualifications set by the college to receive dual credit.

Please note:

1. Students are responsible for making direct contact with all colleges for AP and Dual Credit transfer questions, as the high schools cannot issue transcripts indicating college credit. Students must contact credit-giving institution for this information.
2. The Colleges/Universities retain the right to cancel the Dual Credit Status of courses at either LHS or LNHS at any time. Some courses listed as Dual Credit will be Dual Credit at one high school and not the other based on requirements set by the cooperating University.
3. Students may also choose to take other courses not listed below for college credit at various local colleges and universities, but no high school credit will be granted.
4. Students are strongly encouraged to take the ACT prior to the start of dual credit coursework, as this may be required for registration with the college or university.

Tuition costs are subject to change at any time and there may be additional enrollment fees associated with different Universities.

A complete list of these courses begins on the next page.

Tentative Dual Credit Courses					
High School Course Title	College	College Title	Course Number	Credit Hours	Approx cost per credit hour
AP Biology	ROCK	Gen Biology I/Gen Biology I Lab	BL1250/BL1251	4 (3 lecture/1 lab)	\$83.00
AP Calculus AB	UCM	Calculus I	Math 1151	5	\$85.00
AP Calculus BC	UCM	Calculus II	Math 1152	5	\$85.00
AP Chemistry	UMKC	GenChem II & Gen Chem II Lab	CHEM 212/CHEM 212L	5 (4 lecture/1 lab)	\$90.03
AP Physics I	UMKC	General Physics I	PHY 210	4	\$90.03
AP Physics II	UMKC	General Physics II	PHY 220	4	\$90.03
AP Psychology	MCC	General Psychology	Psych 140	3	\$73.00
Biomedical Innovation	MO S&T	TBD	TBD	TBD	\$250 for the course
Child Development: Care & Guidance	UCM	Observation of Children	CFD 1230	2	\$85.00
Child Growth & Dev	UCM	Child Growth & Dev	CFD1220	3	\$85.00
Civil Engineering and Architecture	RIT	Principles of Civil Engineering Technology	608200	4	\$50.00
College Algebra	UCM	College Algebra	Math 1111	3	\$85.00
College Chemistry	UMKC	Gen Chem I & Gen Chem I Lab	CHEM 211/CHEM 211L	5 (4 lecture/1 lab)	\$90.03
College Level Comp	ROCK	S1: Coll Comp I S2: Coll Comp II	S1: EN1110 S2: EN1120	S1: 3 S2: 3	\$83.00
Comp Integrated Manufacturing	RIT	Intro to Comp Integrated Manufacturing	0617330-88	4	\$50.00
Computer Science Essentials	RIT	TBD	TBD	TBD	\$50.00
Culinary Arts - Pro Start II	MSU	Principles of Food Prep	HSP 321	3	\$70.00
Digital Electronics	RIT	Digital Fundamentals	618200	4	\$50.00
Educational Internship Program I & II	UCM	Intro to the Teaching Prof/Intro Field Experience	EDFL 2100/FLDX 2150	3/1	\$85.00
Fund of Marketing	MCC	Marketing	BSAD 205	3	\$73.00
Human Body Systems	MO S&T	Intro to Human Anatomy and Phys II	BIO 146	3	\$250 for the course
Intro to Engineering & Design	RIT	Solid Modeling and Design	617262	4	\$50.00
Medical Interventions	MO S&T	Intro to Biomedical Problems	BIO 188	3	\$250 for the course
Prin of Biomedical Sciences	MO S&T	Intro to Human Anatomy and Phys I	BIO 144	3	\$250 for the course
Princ of Engineering	RIT	Principles of Engineering	617269	4	\$50.00
Spanish IV	MSU	Spanish IV	SPN 201	3	\$70.00
Spanish V	MSU	Spanish V	SPN 202	3	\$70.00

A+ PROGRAM

Liberty High School and Liberty North High School are privileged to have been designated as A+ high schools by the by the Department of Elementary and Secondary Education (DESE) in cooperation with the Missouri Department of Higher Education (MDHE). We are pleased to offer the opportunity for our graduates to continue their education at a participating public community college or vocational/technical school, or certain private two-year vocational/technical schools while receiving financial scholarship funds from the State.

Benefits for A+ student(s):

- A student graduating with A+ status may be eligible for two years of scholarship funds to attend any accredited public Missouri community college or vocational/technical school as a full-time student. Tuition benefits may cover tuition and general fees.
- An A+ student may be eligible for scholarships from many Missouri four-year colleges and universities.
- The tuition grants may be available to the A+ student up to four years after high school graduation.
- Students graduating from a two-year school may be eligible for transfer scholarships to four-year colleges and universities.

An A+ student must:

- Be a citizen of the United States
- Attend a designated A+ high school for three years, or 6 semesters, immediately prior to graduation.
- Enter into a written agreement, by enrolling with your high school, prior to graduation.
- Graduate with a cumulative GPA of 2.5 or higher on a 4.0 scale.
- Graduate with at least a 95 percent cumulative attendance record for grades 9 - 12.
- Score proficient or advanced on the state level Algebra I End of Course Exam *OR* achieve a combined ACT math sub score and high school GPA in accordance with the scale set forth by MDHE.
- Perform at least 50 hours of unpaid tutoring or mentoring to other students in the Liberty Public Schools.
- Maintain a record of good citizenship and avoid the use of alcohol and unlawful drugs while in grades 9-12.
- Complete a FAFSA (Free Application for Federal Student Aid) prior to becoming eligible for A+ Financial Reimbursement.
- Register for the Selective Service (males) upon 18th birthday

Recommendations for A+ student(s):

- Sign up early in high school so there is time to complete the tutoring portion of the A+ requirements and receive college and career information from the A+ coordinator. Signing up early also allows the coordinator to monitor GPA and attendance.
- Enroll in the A+ Program even if planning to attend a four-year college, or enter the workforce, rather than attend college. The A+ Program is an opportunity for students to access additional education after high school; it does not obligate them to use the A+ tuition reimbursement. The A+ benefits are available to A+ graduate(s) within 48 months of high school graduation.

Opportunities for tutoring experiences include:

1. Enroll in EIP to earn high school elective credit. (Actual credit earned varies particular to parameters of student enrollment in the EIP class.)
2. Earn A+ Hours for no credit by:
 - a. Tutoring during a designated A+ study hall (Available for Seniors Only)
 - b. Tutor before school, after school, or during Liberty/Eagle Hour
 - c. Tutor during summer school (June)

A process for placement will be distributed to students by your building's A+ Coordinator. For additional information about the A+ Program, contact your building's A+ Coordinator.

LHS A+ Coordinator
David McDorman

LNHS A+ Coordinator
Precious Kurth

MISSOURI STATE HIGH SCHOOL ACTIVITIES ASSOCIATION (MSHSAA) ELIGIBILITY

Incoming Freshman Information:

- Current 8th grade students must be promoted to their freshman year and be enrolled in 6 for-credit courses to be eligible to participate in a Fall MSHSAA activity their freshman year.
- Spring Eligibility requires incoming Freshman to meet the requirements listed below for current high school students.

Current High School Student Information:

- The semester prior to participation: students must have passed 3.0 units of credit (six classes), or 80% of coursework taken, **whichever is greater.**
- Semester of participation: students must be enrolled in 3.0 units of credit (six classes), or 80% of the maximum allowable credits, **whichever is greater.**
- Current freshman, sophomores, and juniors may take up to 1 full credit during summer school to count toward their Fall MSHSAA eligibility as long as the course can be counted toward an unfilled graduation requirement.

NAIA ELIGIBILITY INFORMATION

The National Association of Intercollegiate Athletics (NAIA) Eligibility Center is responsible for determining the NAIA eligibility of first-time student-athletes.

Students must meet two of the following three requirements:

- Achieve a minimum overall Grade Point Average of 2.0
- Achieve a minimum of 18 on the ACT
- Graduate in the top 50% of your high school class

Students may register online at <http://www.playnaia.org/index.php>.

Students need to:

- Request your transcript to be sent to NAIA. Request can be made through Family Connection.
- Request your ACT/SAT scores be sent directly to NAIA. The code is 9876.

Please Note: Eligibility is the student's responsibility.

NCAA ELIGIBILITY INFORMATION

The National Collegiate Athletic Association, NCAA, was established in 1906 and serves as the athletics governing body for more than 1,280 colleges, universities, conferences, and organizations. The national office is in Indianapolis, Indiana but member colleges and universities develop the rules and guidelines for athletics eligibility and athletics competition for each of the three NCAA divisions. The NCAA is committed to the student-athlete and to governing competition in a fair, safe, inclusive, and sportsmanlike manner.

One of the differences among the three divisions is that colleges and universities in Divisions I and II may offer athletics scholarships, while Division III colleges and universities may not.

Eligibility Center Contact Information

NCAA Eligibility Center:
Certification Processing
PO Box 7136
Indianapolis, IN 46207-7136
(877) 262-1492
http://web1.ncaa.org/ECWR2/NCAA_EMS/NCAA.html

NCAA Core Courses:

- NCAA Division I and Division II currently require 16 core courses.
- Beginning August 1, 2016 - NCAA Division I will require 10 core courses to be completed prior to the seventh semester of high school. Also a minimum core course GPA of 2.300 is required for competition.

Test Scores:

- Division I has a sliding scale for test score and grade-point average (you can see the table by following the link on the next page).
- Division II has a minimum SAT score requirement of 820 or an ACT sum score of 68.
- The SAT score used for NCAA purposes includes only the critical reading and math sections. The writing section of the SAT is not used.
- The ACT score used for NCAA purposes is a sum of the four sections on the ACT: English, mathematics, reading and science.
- All SAT and ACT scores must be reported directly to the NCAA Eligibility Center by the testing agency. Test scores that appear on transcripts will not be used. When registering for the SAT or ACT, use the Eligibility Center code of 9999 to make sure the score is reported to the Eligibility Center.

Grade-Point Average:

- Only core courses are used in the calculation of the Grade Point Average.
- Be sure to look at your high school’s list of NCAA-approved core courses on the Eligibility Center's website to make certain that courses being taken have been approved as core courses. The website is www.ncaaclearinghouse.net.
- The Division II grade-point-average requirement is a minimum of 2.000.

DIVISION I 16 Core-Course Rule	DIVISION II 16 Core-Course Rule
16 Core Courses: <ul style="list-style-type: none"> • 4 years of English • 3 years of mathematics (Algebra I or higher) • 2 years of natural/physical science (1 year of lab if offered by high school) • 1 year of additional English, mathematics or natural/physical science • 2 years of social science • 4 years of additional courses (from any area above, foreign language or non doctrinal religion/philosophy) 	16 Core Courses: <ul style="list-style-type: none"> • 3 years of English • 2 years of mathematics (Algebra I or higher) • 2 years of natural/physical science (1 year of lab if offered by high school) • 3 years of additional English, mathematics or natural/physical science • 2 years of social science • 4 years of additional courses (from any area above, foreign language or non doctrinal religion/philosophy)

For more information regarding the rules, please go to www.ncaa.org. Click on “Academics and Athletes” then “Eligibility and Recruiting” or visit the Eligibility Center Web site at www.ncaaclearinghouse.net.

Please Note: Eligibility is the student’s responsibility.

NOTE: Online courses through Liberty Public Schools DO NOT meet NCAA Core Course Requirements.

NCAA GPA vs Test Score Sliding Scale may be accessed via the following url:

http://fs.ncaa.org/Docs/eligibility_center/Quick_Reference_Sheet.pdf

COLLEGE & CAREER RESOURCES

Career Services:

- **Family Connection:** Using this program, students can take self-assessments gaining important information about personality traits, interests and career choices. Students can learn and explore careers and search college options.
 - Liberty High School: <http://connection.naviance.com/libhigh>
 - Liberty North High School: <http://connection.naviance.com/lrhs>
 - Username: Student District Login
 - Password: Student District Password
- **Job Shadowing:** Students have the opportunity to shadow a professional. Liberty Public Schools partners with successful and respected local businesses. Students will need to check with their counseling department for opportunities.
- **Internships:** Students interested in pursuing an internship should contact their counselor. Internships are available with regional and local companies.
- **KC Explorer Post:** Exploring KC is a Career Awareness program for students ages 14-20. Activities are on-going and take place during evening hours.
- **Career Panels/Lunch and Learn Opportunities:** Seminars are regularly offered for various career areas (Engineering, Business, Medical/Healthcare, Entrepreneurship, Human Services, etc.). Check with your counselor.

College Research Options:

- **Family Connection Website:** See website and login information above
 - Offers Super Match College Search, as well as various other college and scholarship search options
- **ACT:** <http://www.actstudent.org>
 - Offers information on career and college planning, as well as details on registering for and taking the ACT
- **College Board:** www.collegeboard.org
 - College Matchmaker offers a huge database for college searches geared to find the college that best fits you. Also provides searches for college scholarships and details about SAT testing.
- **NCAA:** http://web1.ncaa.org/ECWR2/NCAA_EMS/NCAA.jsp
 - Provides a guide for college-bound athletes
- **Princeton Review:** <http://www.princetonreview.com/>
 - Provides college rankings and a search system
- **College Opportunities Online:** www.nces.ed.gov/collegenavigator/
 - US Dept of Ed sponsored site that offers a directory of colleges/universities and their costs.

Additional Resources:

- Visit the High School Counseling Website
 - Liberty High School: <https://www.lps53.org/domain/1430>
 - Liberty North High School: <https://www.lps53.org/domain/1280>
- Disability Information: <https://www.disability.gov/>
 - The U.S. Department of Labor's Office of Disability Employment Policy (ODEP) sponsors this website to provide education information for students with disabilities.

HIGH SCHOOL PLAN

Use the Family Connections links below to plan or revise your 9th grade – 12th grade High School Plan. These choices may change later, depending on your interests and career plans. Check with your counselor to make sure your plan meets Liberty's graduation requirements and the requirements of any post-secondary education or training plans that you have. Remember that different colleges, universities, and technical preparation programs have different requirements.

LHS Family Connections Website:

<https://connection.naviance.com/family-connection/auth/login/?hsid=libhigh>

LNHS Family Connections Website:

<https://connection.naviance.com/family-connection/auth/login/?hsid=lnhs>

SEARCHABLE COURSE DATABASE

The link below is connected to a searchable database for LPS high school courses found in this catalog. From the database you can search for courses by: Course Name, Department, Credit Type, Grade Level Eligible, and Credit Hours. Please note, that any credit type other than Elective earned beyond what is required for that credit type counts toward your Elective requirements (e.g.: If you complete 4-years of Math you earn 3.0 Math credits and 1.0 Elective credit towards your graduation requirements).

<https://web.liberty.k12.mo.us/coursebook/>

A LIST OF COURSE OFFERINGS BY DEPARTMENT BEGIN ON THE NEXT PAGE

COURSE OFFERINGS BY DEPARTMENT

Course Sequence MAPS may be found on your High School's Counseling Website

<u>Business</u>			
Course Name	Credit Type	Credit Hours	Grade Level
Accounting	Practical Arts	1	10th - 12th
AP Computer Science	Practical Arts	1	10th - 12th
Business Management	Practical Arts	0.5	10th - 12th
Computer Architecture	Practical Arts	0.5	9th - 12th
Computer Programming	Practical Arts	0.5	9th - 12th
Computer Science Essentials (PLTW)	Practical Arts	1	9th - 12th
Fundamentals of Marketing	Practical Arts	1	11th - 12th
Introduction to Business	Practical Arts	0.5	9th - 12th
Introduction to Web Design	Practical Arts	0.5	9th - 12th
Marketing Internship	Practical Arts	1 to 2	11th - 12th
Personal Finance	Personal Finance	0.5	10th - 12th
Retail Management	Practical Arts	1	11th - 12th
Sports Entertainment Marketing	Practical Arts	0.5	9th - 12th
Sports Entertainment Marketing II	Practical Arts	0.5 to 1	10th - 12th
Sports Entertainment Marketing III	Practical Arts	1	11th - 12th
Youth Entrepreneurs	Practical Arts	1	11th - 12th
<u>English Language Arts</u>			
Course Name	Credit Type	Credit Hours	Grade Level
Advanced Broadcast Journalism News	Practical Arts	1	10th - 12th
Advanced Eng Lang Arts 10	English Language Arts II	1	10th
Advanced Eng Lang Arts 11	English Language Arts Elective	1	11th
Advanced Eng Lang Arts 12	English Language Arts Elective	1	12th
Advanced Eng Lang Arts 9	English Language Arts I	1	9th
Advanced Publications - Newspaper	Practical Arts	1	11th - 12th
Advanced Publications - Yearbook	Practical Arts	1	11th - 12th
AP English Language & Composition	English Language Arts Elective	1	11th - 12th
AP English Literature & Composition	English Language Arts Elective	1	11th - 12th
Beg Broadcast Jnlism	Practical Arts	1	9th - 12th
College Level Composition	English Language Arts Elective	1	12th
Creative Writing	English Language Arts Elective	0.5	11th - 12th
English Language Arts 10	English Language Arts II	1	10th - 12th
English Language Arts 11	English Language Arts Elective	1	11th - 12th
English Language Arts 12	English Language Arts Elective	1	12th
English Language Arts 9	English Language Arts I	1	9th
Gifted Eng Lang Arts 10	English Language Arts II	1	10th
Gifted Eng Lang Arts 9	English Language Arts I	1	9th
Journalism	English Language Arts Elective	0.5	9th - 12th
Literacy Enhancement	Elective	0.5	9th - 12th
Newspaper	Practical Arts	1	9th - 12th
Photojournalism	Practical Arts	1	9th - 12th
Sports Media	Practical Arts	1	11th - 12th
Yearbook	Practical Arts	1	9th - 12th

<u>Family & Consumer Sciences</u>			
Course Name	Credit Type	Credit Hours	Grade Level
Child Care & Guidance I	Practical Arts	0.5 to 1	11th - 12th
Child Care & Guidance II	Practical Arts	0.5 to 1	11th - 12th
Child Growth & Development	Practical Arts	1	10th - 12th
Culinary Arts-Pro Start I	Practical Arts	1	11th - 12th
Culinary Arts-Pro Start II	Practical Arts	1	12th
Design Pathways Entrepreneurship	Practical Arts	1	10th - 12th
Educational Internship Program I	Practical Arts	0.5 to 1	12th
Educational Internship Program II	Practical Arts	0.5 to 1	12th
Fashion Merchandising & Marketing	Practical Arts	0.5	9th - 12th
Housing & Interior Design	Practical Arts	0.5	9th - 12th
International Culinary Arts	Practical Arts	0.5	9th - 12th
Interpersonal Development & Health	Practical Arts	0.5	10th - 12th
Intro to Child Development	Practical Arts	0.5	9th - 12th
Intro to Culinary Arts	Practical Arts	0.5	9th - 12th
Intro to Fashion Fundamentals	Practical Arts	0.5	9th - 12th
<u>Industrial Technology</u>			
Course Name	Credit Type	Credit Hours	Grade Level
Advanced Woodworking	Practical Arts	1	10th - 12th
Auto Tech I	Practical Arts	0.5	9th - 12th
Auto Tech II	Practical Arts	1	10th - 12th
Auto Tech III	Practical Arts	1	11th - 12th
Introduction to Woodworking	Practical Arts	1	9th - 12th
<u>International Language</u>			
Course Name	Credit Type	Credit Hours	Grade Level
Chinese I	Elective	1	9th - 12th
Chinese II	Elective	1	10th - 12th
Chinese III	Elective	1	11th - 12th
Chinese IV	Elective	1	12th
French I	Elective	1	9th - 12th
French II	Elective	1	9th - 12th
French III	Elective	1	10th - 12th
French IV Honors	Elective	1	11th - 12th
French V Honors	Elective	1	12th
German I	Elective	1	9th - 12th
German II	Elective	1	9th - 12th
German III	Elective	1	10th - 12th
German IV Honors	Elective	1	11th - 12th
German V Honors	Elective	1	12th
Spanish I	Elective	1	9th - 12th
Spanish II	Elective	1	9th - 12th
Spanish III	Elective	1	10th - 12th
Spanish IV Honors	Elective	1	11th - 12th
Spanish V Honors	Elective	1	12th
Spanish Heritage Speaker	Elective	1	9th - 12th

<u>Mathematics</u>			
Course Name	Credit Type	Credit Hours	Grade Level
Advanced Algebra II	Mathematics	1	9th - 10th
Advanced Precalculus w/Trigonometry	Mathematics	1	10th - 12th
Algebra I	Mathematics	1	9th - 12th
Algebra I PLP	Mathematics	1	9th - 12th
Algebra II	Mathematics	1	9th - 12th
Algebra II PLP	Mathematics	1	9th - 12th
AP Calculus AB	Mathematics	1	10th - 12th
AP Calculus BC	Mathematics	1	11th - 12th
AP Statistics	Mathematics	1	11th - 12th
College Algebra	Mathematics	1	11th - 12th
Geometry	Mathematics	1	9th - 12th
Geometry PLP	Mathematics	1	9th - 12th
Precalculus with Trigonometry	Mathematics	1	10th - 12th
Probability & Statistics I	Mathematics	0.5	11th - 12th
Probability & Statistics II	Mathematics	0.5	11th - 12th
Trigonometry I	Mathematics	0.5	11th - 12th
Trigonometry II	Mathematics	0.5	11th - 12th
<u>Miscellaneous</u>			
Course Name	Credit Type	Credit Hours	Grade Level
Digital Media Management	Elective	0.5	9th - 12th
NCAPS Digital Media & Design	Elective	1.5	11th - 12th
NCAPS Engineering & Adv Manufacturing	Elective	1.5	11th - 12th
NCAPS Global Business & Entrepreneurship	Elective	1.5	11th - 12th
NCAPS Global Logistics & Transportation	Elective	1.5	11th - 12th
NCAPS Medicine & Healthcare	Elective	1.5	11th - 12th
NCAPS Technology Solutions	Elective	1.5	11th - 12th
Practical Leadership	Elective	1	10th - 12th
<u>Performing Arts (Debate/Speech)</u>			
Course Name	Credit Type	Credit Hours	Grade Level
Advanced Debate	Elective	1	9th - 12th
Debate I	English Language Arts Elective	1	9th - 12th
Advanced Speech	Elective	1	10th - 12th
Speech I	English Language Arts Elective	0.5	9th - 12th
<u>Performing Arts (Music)</u>			
Course Name	Credit Type	Credit Hours	Grade Level
Band	Fine Arts	1	9th - 12th
Color Guard	Elective	0.5	9th - 12th
Concert Choir	Fine Arts	1	10th - 12th
Liberty Chorale (Men's/Women's)	Fine Arts	1	9th - 12th
Women's Honors Choir	Fine Arts	1	10th - 12th
Chamber Orchestra	Fine Arts	1	10th - 12th
Concert Orchestra	Fine Arts	1	9th - 12th
Freshman Orchestra	Fine Arts	1	9th
Symphonic Orchestra	Fine Arts	1	10th - 12th
AP Music Theory	Fine Arts	1	11th - 12th
Music Appreciation	Fine Arts	0.5	9th - 12th

<u>Performing Arts (Theatre)</u>			
Course Name	Credit Type	Credit Hours	Grade Level
Advanced Theatre	Fine Arts	1	10th - 12th
Competitive Theatre	Fine Arts	1	9th - 12th
Stagecraft	Practical Arts	1	9th - 12th
Technical Theatre	Fine Arts	1	9th - 12th
Theatre	Fine Arts	1	9th - 12th
<u>Physical Education</u>			
Course Name	Credit Type	Credit Hours	Grade Level
Athletic Strength Training	Physical Education	0.5	9th - 12th
Body Sculpting	Physical Education	0.5	9th - 12th
Health	Health	0.5	10th - 12th
Lifetime Recreational Sports	Physical Education	0.5	9th - 12th
Sports Medical Trainer	Elective	0.5	11th - 12th
Team Sports	Physical Education	0.5	9th - 12th
Weight Training	Physical Education	0.5	9th - 12th
<u>Project Lead the Way-Engineering</u>			
Course Name	Credit Type	Credit Hours	Grade Level
Aerospace Engineering	Practical Arts	1	10th - 12th
Civil Eng and Architecture	Practical Arts	1	10th - 12th
Computer Integrated Manufacturing	Practical Arts	1	10th - 12th
Digital Electronics	Practical Arts	1	10th - 12th
Engineering Design & Development	Practical Arts	1	11th - 12th
Introduction to Engineering & Design	Practical Arts	1	9th - 12th
Principles of Engineering	Practical Arts	1	10th - 12th
<u>Science</u>			
Course Name	Credit Type	Credit Hours	Grade Level
AP Biology	Science	1	11th - 12th
AP Chemistry	Science	1	12th
AP Environmental Science	Science	1	11th - 12th
AP Physics I	Science	1	11th - 12th
AP Physics II	Science	1	12th
Biology I	Science	1	9th - 12th
Biology II	Science	1	10th - 12th
Biomedical Innovation	Science	1	12th
College Chemistry	Science	1	11th - 12th
Earth and Space Science	Science	1	11th - 12th
Honors Biology I	Science	1	9th - 12th
Honors Theoretical Chemistry	Science	1	10th - 12th
Human Body Systems	Science	1	10th - 12th
Medical Interventions	Science	1	11th - 12th
Physical Science	Science	1	10th - 12th
Physics	Science	1	11th - 12th
Principles of Biomedical Sciences	Science	1	9th - 11th
Theoretical Chemistry	Science	1	10th - 12th
Zoology	Science	1	10th - 12th

<u>Social Studies</u>			
Course Name	Credit Type	Credit Hours	Grade Level
American Government & Economics	American Government & Economics	1	11th - 12th
American History	American History	1	9th
AP American Government	American Government & Economics	1	11th - 12th
AP European History	Elective	1	11th - 12th
AP Psychology	Elective	1	11th - 12th
AP U.S. History	American History	1	11th - 12th
AP World History	World History	1	10th
Contemporary Issues	Elective	0.5	11th - 12th
History of the Holocaust	Elective	0.5	11th - 12th
Honors American History	American History	1	9th
International Relations	Elective	0.5	11th - 12th
Psychology I	Elective	0.5	11th - 12th
Psychology II	Elective	0.5	11th - 12th
Sociology	Elective	0.5	10th - 12th
Sociology II	Elective	0.5	10th - 12th
World History	World History	1	10th
<u>Visual Arts</u>			
Course Name	Credit Type	Credit Hours	Grade Level
Advanced Studio Art	Fine Arts	1	11th - 12th
AP Studio Art	Fine Arts	1	11th - 12th
Art Foundations	Fine Arts	1	9th - 12th
Digital Photography	Fine Arts	1	10th - 12th
Graphic Design I	Fine Arts	1	9th - 12th
Graphic Design II	Fine Arts	1	10th - 12th
Observational Drawing I	Fine Arts	1	9th - 12th
Observational Drawing II	Fine Arts	1	10th - 12th
Sculpture I	Fine Arts	1	9th - 12th
Sculpture II	Fine Arts	1	10th - 12th
<u>Area Career Center (Excelsior Springs)</u>			
Course Name	Credit Type	Credit Hours	Grade Level
Animation & Media I	Practical Arts	3	11th - 12th
Animation & Media II	Practical Arts	3	12th
Automotive Technology I	Practical Arts	3	11th - 12th
Automotive Technology II	Practical Arts	3	12th
Carpentry/Construction Technology I	Practical Arts	3	11th - 12th
Carpentry/Construction Technology II	Practical Arts	3	12th
Computer Technology I	Practical Arts	3	11th - 12th
Computer Technology II	Practical Arts	3	12th
Electrical Trades I	Practical Arts	3	11th - 12th
Electrical Trades II	Practical Arts	3	12th
Emergency Medical Technician-Basic	Practical Arts	3	12

<u>Area Career Center (Excelsior Springs)</u>			
Course Name	Credit Type	Credit Hours	Grade Level
Fire Fighter I & II/Fire Science	Practical Arts	3	11th - 12th
Health Services Assistant	Practical Arts	3	11th - 12th
HVAC I	Practical Arts	3	11th - 12th
HVAC II	Practical Arts	3	12th
<u>Northland Career Center (Platte County)</u>			
Course Name	Credit Type	Credit Hours	Grade Level
Agriculture Education I	Practical Arts	3	11th
Agriculture Education II	Practical Arts	3	12th
Aviation Tech I	Practical Arts	3	11th
Aviation Tech II	Practical Arts	3	12th
Building Trades	Practical Arts	3	12th
Construction Technology I	Practical Arts	3	11th
Construction Technology II	Practical Arts	3	12th
Culinary Arts I	Practical Arts	3	11th
Culinary Arts II	Practical Arts	3	12th
Diesel Technology I	Practical Arts	3	11th
Diesel Technology II	Practical Arts	3	12th
Health Sciences I	Practical Arts	3	11th
Health Sciences II	Practical Arts	3	12th
HVAC I	Practical Arts	3	11th
HVAC II	Practical Arts	3	12th
Industrial Welding	Practical Arts	3	12th
Industrial Welding I	Practical Arts	3	11th
Industrial Welding II	Practical Arts	3	12th
IT Professionals I	Practical Arts	3	11th
IT Professionals II	Practical Arts	3	12th
Law Enforcement CSI I	Practical Arts	3	11th
Law Enforcement CSI II	Practical Arts	3	12th
Production Technologies I	Practical Arts	3	11th
Production Technologies II	Practical Arts	3	12th
Teaching Professions	Practical Arts	3	12th
Teaching Professions I	Practical Arts	3	11th
Teaching Professions II	Practical Arts	3	12th

**COURSE DESCRIPTIONS
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BUSINESS

Course Name: Accounting

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 10th - 12th

Course Description: Accounting is a year-long course designed to provide an understanding of the principles and procedures of accounting using electronic methods, including hands-on computer activities. Upon completion of this course, students should be able to handle the daily recording and financial activities of the typical small or medium-sized business. College-bound students will be better prepared for future study in accounting. Daily homework is required.

Recommendation: Grade of C or above in math courses.

Course Name: AP Computer Science

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 10th - 12th

Course Description: AP Computer Science will teach the fundamental programming concepts of an introductory first year, college level computer course. The course places an emphasis on Java classes, objects, inheritance, polymorphism, programming methodology and abstraction, efficient use of proper algorithms, elementary data structures, standard Java libraries problem solving skills, and preparation of the AP exam.

Prerequisite: Successful completion of Computer Programming

Course Name: Business Management

Department: Business

Credit Hours: 0.5

Primary Credit Type: Practical Arts

Grades Eligible: 10th - 12th

Course Description: This course will integrate an introduction into various courses of study for the future business student including: Management Responsibilities, Business Ethics, Human Resources, Workplace Expectations and Business Communication.

Course Name: Computer Architecture

Credit Hours: 0.5

Primary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Course Description: Computer hardware and software will be explored to create a foundation for future computer courses. Students will disassemble and assemble a PC, install peripheral devices, attach multiple machines to form a network, and write a basic computer program. In addition, students will evaluate the cost effectiveness of technology, security of computing resources including data/information, and the impact of technology on society.

Course Name: Computer Programming

Credit Hours: 0.5

Primary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Course Description: Computer Programming is an introductory course with hands-on exposure to object-oriented programming. Students study the relationship between hardware and software, logic structures, and how to develop algorithms for problem solving. Students will utilize 3D graphical environment to create multimedia programs. Students will achieve significant preparation for immediate and post-secondary experiences.

Prerequisite: Algebra

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Course Name: Computer Science Essentials (PLTW)

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Course Description: Students will experience the major topics, big ideas, and computational thinking practices used by computing professionals to solve problems and create value for others. This course will empower students to develop computational thinking skills while building confidence that prepares them to advance to Computer Science Principles and Computer Science A.

Course Name: Fundamentals of Marketing

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 11th - 12th

Dual Credit: Yes at LHS

Course Description: This is a year-long course for students who are interested in a career in the field of merchandising, marketing, and management. This course includes instructional areas designed to provide an understanding of the fundamental marketing processes and orientation to the American Free Enterprise System. Seniors may combine this course with a Marketing Internship and will be given first priority for enrollment in this course.

Note: Students enrolled in the Marketing course will join DECA, a marketing club for high school and college courses. They may also be asked to help operate the school store.

Course Name: Introduction to Business

Credit Hours: 0.5

Primary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Course Description: This course is designed to introduce students to business operations in a global economy while providing a foundation for future business courses. Students will attain an understanding of how management, technology, marketing, accounting, entrepreneurship, and human resources impact the workplace. Students will explore social responsibility and ethics, basic economics, and practical applications of business software.

Course Name: Introduction to Web Design

Credit Hours: 0.5

Primary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Course Description: Students will study web design principles to gain a better understanding of how to design and maintain successful web pages. Students will utilize HTML, CSS, Javascript, and Dreamweaver.

Course Name: Marketing Internship

Credit Hours: 1.0 or 2.0

Primary Credit Type: Practical Arts

Grades Eligible: 11th - 12th

Course Description: This is a year-long internship. Students are placed in employment that directly contributes to the development of the competencies necessary for successful employment in the field of marketing. The student must be concurrently enrolled in Fundamentals of Marketing. This is a cooperative vocational education program and must follow Department of Elementary and Secondary Education guidelines established for these programs. Requirements for Internship: 1. Be a senior combining this course with supervised employment. 2. Be at least 16 years old. 3. Maintain employment in a qualifying job to be eligible for this course. Job placement assistance is available through the teacher/coordinator during the school year, one week after each school year ends, and one week before each school year begins. 4. Have an orientation meeting with the teacher, parent(s), and employer and fill out the necessary forms and discuss the internship policies, expectations, and state mandated guidelines. 5. Have teacher approval for entry into the internship.

Please Note: 1 credit can be earned for 10 - 19 hours per week of internship; 2 credits can be earned for 20 or more hours per week of internship.

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Course Name: Personal Finance

Credit Hours: 0.5

Primary Credit Type: Personal Finance

Grades Eligible: 10th - 12th

Course Description: Personal Finance is designed to prepare students to make wise financial decisions. Topics include personal budgeting, banking services, understanding credit, taxes, investment options, risk management, automobile purchases, and consumer rights and responsibilities. Emphasis is placed on developing decision-making skills for real-life financial situations. Personal Finance is a course designed to help students become informed consumers. This course will focus on specific consumer issues that will be encountered during life. During the course, students will study the U.S. economic system, smart consumerism, money management, guarding against fraudulent or deceptive sales practices, and socially responsible behavior. This course will help prepare students for life on their own.

Please Note: This is a blended learning course. Teachers will use face-to-face instruction and at times will release students to locations within the building to learn from online content, meet in small groups with the instructor, and/or collaborate with classmates.

Course Name: Retail Management (**This Class Meets at LNHS Only**)

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 11th - 12th

Course Description: This course is designed to provide students with a hands-on learning experience in the school store. Students will learn and apply the necessary skills of marketing, retailing and management to the operations of a school store. Students will examine the operation of an efficiently run school store and assume authentic on-the-job responsibilities. Students will become involved with all aspects of the operation which include: customer service, management, purchasing, inventory control, sales, cash handling, advertising, and merchandising. Students will be expected to participate in activities requiring additional time outside of class before, during, and after school. Students may compete in the School Based Enterprise certification event for DECA. Students may repeat this class.

Prerequisite: 0.5 credit of business/marketing course and instructor approval

Course Name: Sports Entertainment Marketing

Credit Hours: 0.5

Primary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Course Description: This course will help students develop a complete understanding of the marketing concepts and theories that apply to sports and entertainment events. The areas this course will cover include: basic marketing, target marketing, sponsorship, event marketing, promotions, sponsorship proposals, and sports marketing plans. This course will also uncover the components of promotion plans, sponsorship proposals, and the key elements needed in sports marketing plans.

Course Name: Sports Entertainment Marketing II

Credit Hours: 0.5 to 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 10th - 12th

Course Description: Sports Marketing II is a practical application of curriculum learned in the prerequisite Sports Marketing course currently offered at LPS. Students will engage in real-world applications of sports marketing including career studies, partnering with coaches/athletic directors, creation/organization/implementation of gameday promotions and sponsorship sale recruitment and fulfillment for every sport. Students will be expected to participate in activities requiring additional time outside of class before, during, and after school.

Prerequisite: Sports Entertainment Marketing

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Course Name: Sports Entertainment Marketing III

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 11th - 12th

Course Description: This course is designed to give students first-hand experience in leadership and supervisory roles in the following capacities: Game Production, Social Media Marketing, Brand Equity and Logistics. Students are responsible for directing their peers in the Sports Entertainment Marketing II program as well.

Prerequisite: Sports Entertainment Marketing and Sports Entertainment Marketing II

Course Name: Youth Entrepreneurs

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 11th - 12th

Course Description: Youth Entrepreneurs® course examines the values, ideas and institutions that create the conditions for financial literacy in business, innovation, leadership and citizenship to flourish. By the end of this course, students will create value for themselves and others by applying the entrepreneurial mindset to their life and work. In early stages of the course, students engage critical-thinking skills as they iterate business models to launch a one-day, pop-up business. Students continue to develop practical and philosophical knowledge in later stages as they research, develop, and present a complete business proposal for their capstone project.

Prerequisite: Students must complete at least 0.5 credits of any Business course.

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ENGLISH LANGUAGE ARTS

Course Name: Advanced Broadcast Journalism News

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 10th - 12th

Course Description: Students enrolled in this course will work independently and within teams to produce the official news programs of LHS or LNHS. This course requires a significant amount of out-of-school time reporting and editing news packages.

Prerequisite: Completion of an introductory broadcasting course and consent of instructor through audition and application.

Please Note: This course does not count as an Eng Lang Arts elective.

Course Name: Advanced English Language Arts 9

Credit Hours: 1.0

Primary Credit Type: Eng Lang Arts 9

Grades Eligible: 9th

Course Description: Advanced English Language Arts 9 will focus on the analytical interpretation of literature and continued development of quality writing. Emphasis will be placed on higher order thinking skills and creativity. Students will be expected to be self-directed and must have a strong work ethic.

Prerequisite: English Language Arts department placement. Minimum of 85% in ELA 8.

Course Name: Advanced English Language Arts 10

Credit Hours: 1.0

Primary Credit Type: Eng Lang Arts 10

Grades Eligible: 10th

Course Description: This is a year-long course that focuses on reading, writing, speaking, listening, and thinking. Students will continue to develop their skills in the reading and analysis of literature, the production of quality writing through the writing process, and the accessing, documentation, and presentation of information using oral communication and technology. They will also review grammar, usage, and mechanics and continue to develop vocabulary. This differs from English Language Arts 10 primarily in the sophistication of the literature studied and the pace of the course. Required readings will include, *A Lesson Before Dying*, *Fahrenheit 451*, and *Of Mice and Men*.

Prerequisite: English Language Arts department placement. Minimum of 85% in Advanced English Language Arts I.

Course Name: Advanced English Language Arts 11

Credit Hours: 1

Primary Credit Type: Eng Lang Arts Elective

Grades Eligible: 11th

Course Description: Advanced English Language Arts 11 is a yearlong survey of the contributions made by the diverse groups of the American tradition. The course begins with early selections of fiction and non-fiction and progresses through Civil War era literature and the modern era. Students will read, analyze, and respond in writing to various literary genres. The course will emphasize process and analytical writing.

Prerequisite: This course is recommended for students who received a grade of A or B in English Language Arts IIB or Advanced English Language Arts IIA.

Please Note: This course is not open to students who have successfully completed English Language Arts III.

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Course Name: Advanced English Language Arts 12

Credit Hours: 1.0

Primary Credit Type: Eng Lang Arts Elective

Grades Eligible: 12th

Course Description: Advanced English Language Arts 12 is a year-long course that focuses on further developing reading, writing, speaking, listening and thinking skills for students who are college-bound but not yet ready for dual-credit or advanced placement courses during their senior year. In order for students to prepare for reading and writing tasks at the college level, they need to study and practice the typical rhetorical modes and broaden their experience with diverse literature. The *Prentice Hall Reader* and possible novels include *Tuesdays with Morrie*, *A Thousand Splendid Suns*, *1984*, *Fast Food Nation*, *Into the Wild*, *Othello*, and selections from *On Writing the College Application Essay* and *How to Read Literature Like a Professor*.

Recommendation: Successful completion of junior level English with an A or B. This course is geared toward students planning on attending college and needing practice with college-type writing and analytic skills.

Course Name: Advanced Publications - Newspaper

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 11th - 12th

Course Description: Advanced Publications - Newspaper is a year-long course designed to assist students in in-depth production of publications including implementation of leadership and people skills, advanced writing techniques, elements and concepts of advanced layout and design, application of current trends, and professional concepts.

Prerequisite: Students enrolled in the course must complete a course application, be an editor of the newspaper, and be approved for enrollment by the advisor.

Please Note: By special permission only. This course does not count as an Eng Lang Arts elective.

Course Name: Advanced Publications - Yearbook

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 11th - 12th

Course Description: Advanced Publications - Yearbook is a year-long course designed to assist students in in-depth production of publications including implementation of leadership and people skills, advanced writing techniques, elements and concepts of advanced layout and design, application of current trends, and professional concepts.

Prerequisite: Students enrolled in the course must complete a course application, be an editor of the yearbook, and be approved for enrollment by the advisor.

Please Note: By special permission only. This course does not count as an Eng Lang Arts elective.

Course Name: AP English Language & Composition

Credit Hours: 1.0

Primary Credit Type: Eng Lang Arts Elective

Grades Eligible: 11th - 12th

Course Description: Advanced Placement English Language and Composition is a year-long course in which students develop advanced rhetorical strategies and writing techniques. Students will explore the relationship between writer, audience, and purpose via the analysis of a wide variety of historical and contemporary, predominantly non-fiction, texts such as speeches, letters, essays, blogs, and articles. Students will develop the ability to compose sophisticated arguments and synthesize multiple resources and perspectives into compelling individual views. They will learn both to revise through multiple drafts and to effectively write “on demand” through in-class writings. All students are expected to take the AP exam at the end of the year.

Prerequisite: Successful completion of English Language Arts I and II, Advanced English Language Arts I and II, or Gifted English Language Arts I and II, and have the recommendation of their English Language Arts teacher.

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Course Name: AP English Literature & Composition

Credit Hours: 1.0

Primary Credit Type: Eng Lang Arts Elective

Grades Eligible: 11th - 12th

Course Description: Advanced Placement English Literature and Composition is a year-long course in which students examine literature of the Western world. The course begins with an analysis of dramatic works, especially those of William Shakespeare, and then moves on to a survey of poetic expression. The focus for second semester is on fiction, with an emphasis on nineteenth-century novels. Students will refine literary analysis skills by participating in course discussions and writing essays. In-class essays will also help prepare students for the Advanced Placement exam administered in the Spring. Extensive vocabulary development is also incorporated into the curriculum. This course is a one-year commitment and all students enrolled are expected to take the AP exam.

Prerequisite: Seniors must have earned three credits in literature and composition-based coursework and have a GPA of at least 3.5. Juniors must have earned two credits in literature and composition-based coursework, have a GPA of at least 3.5, and have the recommendation of their English Language Arts teacher.

Course Name: Beginning Broadcast Journalism

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Course Description: All students accepted in this course will learn in a practical hands-on environment all of the aspects of broadcast production and writing, camera operation, and editing. Through individual work and teamwork, students in this course will serve as associates of the official LHS or LNHS news program.

Please Note: This course does not count as an Eng Lang Arts elective.

Course Name: College Level Composition

Credit Hours: 1.0

Primary Credit Type: Eng Lang Arts Elective

Grades Eligible: 12th

Dual Credit: Yes

Course Description: This year-long course is for students wishing to earn college credit for composition. Designed to assist the student in achieving competency in college-level writing, students in this course also will study and analyze readings and compose critical essays and research papers. First semester includes expository writing and reading of non-fiction models; second semester focuses on research writing and literary analysis. Students may earn a total of six credit hours (three each semester) that can usually be transferred to their college of choice. In addition, the student has the option to take the Advanced Placement Language and Composition exam in the Spring.

Prerequisite: Three credits of English literature and composition-based coursework and have a GPA of at least 3.2. Students with less than a 3.2 GPA must have written permission from the instructor. Students with less than a 3.0 GPA may not take the course. Students in this course and their parents are required to sign a contract.

Course Name: Creative Writing

Credit Hours: 0.5

Primary Credit Type: Eng Lang Arts Elective

Grades Eligible: 11th - 12th

Course Description: Creative Writing is a semester course in which students will develop individual creative works in the forms of poetry, drama, and short story. Students will study various literary works as models and will also review the mechanics of good English grammar, punctuation, and usage.

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Course Name: English Language Arts 9

Credit Hours: 1.0

Primary Credit Type: Eng Lang Arts 9

Grades Eligible: 9th

Course Description: This course is designed to cover many aspects of communication, including reading, writing, speaking, listening, and information literacy. Literature study will include a variety of selected readings including essays, short stories, novels, and plays. Composition will be a significant part of this course with specific instruction in the development of thesis statements, multi-paragraph essays, and writing for different purposes and audiences. The conventions of writing will also be emphasized. Writing will be enhanced through the use of computers and other electronic resources.

Course Name: English Language Arts 10

Credit Hours: 1.0

Primary Credit Type: Eng Lang Arts 10

Grades Eligible: 10th - 12th

Course Description: This year-long course integrates the study of literature with the writing process. Students will develop techniques for literary analysis and demonstrate attendant critical thinking skills. Finally, students will research specified topics using a variety of resources and will provide documentation consistent with MLA manuscript format. Novels include *Fahrenheit 451* and *Of Mice and Men*.

Course Name: English Language Arts 11

Credit Hours: 1.0

Primary Credit Type: Eng Lang Arts Elective

Grades Eligible: 11th - 12th

Course Description: English Language Arts 11 is a year-long course that focuses on further developing reading, writing, speaking, listening, and thinking skills. Students will further develop techniques for literary analysis and research. They will read, analyze, and respond in writing to various literary genres in the text *American Literature* as well as various novels, review usage and mechanics and continue to develop vocabulary.

Prerequisite: Successful completion of English Language Arts IIB.

Please Note: This course is not open to students who have taken American Literature and Composition I or II.

Course Name: English Language Arts 12

Credit Hours: 1.0

Primary Credit Type: Eng Lang Arts Elective

Grades Eligible: 12th

Course Description: English Language Arts 12 is a year-long course for seniors which explores various themes and topics common to life in the late 20th and early 21st Centuries through the use of modern novels, short stories, and poetry. Students will exhibit understanding of theme, point of view, plot, and conflict in assigned works through in-class discussion and written expression through a variety of essays and written assignments. Students will also work on developing independent reading skills and considering a multitude of cultural and social justice issues.

Prerequisite: Successful completion of English Language Arts III.

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Course Name: Gifted English Language Arts 9

Credit Hours: 1.0

Primary Credit Type: Eng Lang Arts 9

Grades Eligible: 9th

Course Description: The focus will be on the integration of reading, writing, speaking, and listening. This year-long course will develop the necessary skills to write for a variety of purposes and to read and analyze selected pieces. The interdisciplinary nature of much of the course subject matter will enable the students to work within their academic strength areas in choosing a topic for the culminating presentation. The skills covered will range from thinking strategies, language use, speaking, reading word skills, study skills, and a continued emphasis on the development of quality writing by using the writing process. In addition, students will demonstrate an understanding of various literary terms and technical devices used to criticize and discuss literary effects. Students will also demonstrate the ability to access and analyze information from various resources. Students in this course are expected to maintain an A or B.

Prerequisite: This course is for identified gifted students only.

Course Name: Gifted English Language Arts 10

Credit Hours: 1.0

Primary Credit Type: Eng Lang Arts 10

Grades Eligible: 10th

Course Description: The focus will be on the integration of reading, writing, speaking, and listening. This year-long course will develop the necessary skills to write for a variety of purposes and to read and analyze selected pieces. The interdisciplinary nature of much of the course subject matter will enable the students to work within their academic strength areas in choosing a topic for the culminating presentation. The skills covered will range from thinking strategies, language use, speaking, reading word skills, study skills, and a continued emphasis on the development of quality writing by using the writing process. In addition, students will demonstrate an understanding of various literary terms and technical devices used to criticize and discuss literary effects. Students will also demonstrate the ability to access and analyze information from various resources. Students in this course are expected to maintain an A or B.

Prerequisite: This course is for identified gifted students only.

Course Name: Journalism

Credit Hours: 0.5

Primary Credit Type: Eng Lang Arts Elective

Secondary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Course Description: This course exposes students to the basic principles of newspaper and yearbook. The course of study will include history, law, advertising principles, news reporting, editorial writing, feature writing, sports writing, page design, basic newspaper style, and desktop publishing. This course is open to any student interested in journalism.

Course Name: Literacy Enhancement

Credit Hours: 0.5

Primary Credit Type: Elective

Grades Eligible: 9th - 12th

Course Description: This course utilizes unique teaching methods to assist students in improving their reading skills. Small class sizes, peer review, "Reading 180" software, and individual teacher assistance are combined to maximize student achievement.

Prerequisite: English Language Arts department placement.

Recommendation: Enrollees are selected by a standardized reading assessment and teacher approval.

Please Note: This course does not count as an Eng Lang Arts elective.

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Course Name: Newspaper

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Course Description: The students selected for this course will study techniques of newspaper writing and learn to produce acceptable articles for publication in the school newspaper, which is a public forum for student work. Students will write news, features, editorials, sports and in-depth stories, and critique each other's work. Students also learn to prepare copy and design layouts. Students are required to sell advertising to help finance the publication.

Prerequisite: Students must fill out an application for enrollment in this course.

Please Note: This course does not count as an Eng Lang Arts elective.

Course Name: Photojournalism

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Course Description: Students selected for this course learn various techniques in taking and developing pictures. A primary goal is to provide pictures for the yearbook and school newspaper.

Prerequisite: Students must fill out an application for enrollment in this course. .

Please Note: This course does not count as an Eng Lang Arts elective.

Course Name: Sports Media

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 11th - 12th

Course Description: Students enrolled in this course will be responsible for reporting all of their High School's sports by using a variety of media mediums—print, online, social media, and video. Students will write for a print magazine, use social media, and produce a monthly sports broadcast.

Prerequisite: Students must fill out an application for enrollment in this course.

Course Name: Yearbook

Credit Hours: 1 .0

Primary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Course Description: Students selected for this course will have the responsibility of producing the high school yearbook. While planning the pages of the yearbook, students will be instructed in basic principles of magazine layout and graphic arts. Students will also write feature stories to be used in the various sections of the yearbook. Students are required to sell advertising to finance the publication.

Prerequisite: Students must fill out an application for enrollment in this course.

Please Note: This course does not count as an Eng Lang Arts elective.

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FAMILY & CONSUMER SCIENCES

Course Name: Child Care & Guidance I

Credit Hours: 0.5 to 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 11th -12th

Dual Credit: Yes, if taking both Child Care and Guidance I and II

Course Description: This dual credit course is intended for students interested in further knowledge in the field of childcare, guidance, and supervision as applied to the Early Childhood workplace. This course will examine the nature, purposes, ethics and processes of observing individuals. It will include information from various sources in combination with out-of-class observation assignments. Lesson planning, teaching, and working in a childcare environment will be course requirements. This course is a great option for students interested in Early Childhood and/ or Elementary Education. Students who qualify, may earn college credit.

Please Note: Teacher approval is required for this course.

Course Name: Child Care & Guidance II

Credit Hours: 0.5 to 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 11th - 12th

Dual Credit: Yes, if taking both Child Care and Guidance I and II

Course Description: This is the lab course that accompanies Child Care and Guidance I. During the second semester, students will be placed in an Early Childhood Education setting where they will work with a cooperating teacher applying classroom preparation, tutoring, and teaching prepared lessons. Students will practice how to solve problems based upon the developmental needs of children. Students who qualify may earn college credit.

Prerequisite: Child Care & Guidance I – may be taken in the same year.

Please Note: Teacher approval is required for this course.

Course Name: Child Growth & Development

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 10th - 12th

Dual Credit: Yes

Course Description: This is a dual credit course in the field of child development which emphasizes the dynamic force underlying growth, change, and techniques used to study and observe children. This course encompasses prenatal through adolescent development through the lense of physical, emotional, social, and intellectual development. This course is a great option for students interested in any field of Education or Healthcare. Students who qualify may earn college credit.

Prerequisite: Introduction to Child Development

Please Note: Teacher approval is required for this course.

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Course Name: Culinary Arts-Pro Start I

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 11th - 12th

Course Description: This course is for the student who is considering a career in restaurant and food service and/or the hospitality industry. The course will cover an overview and history of the industry, career exploration, cooking methods (stocks, sauces, and soups, fruits and vegetables, potatoes and grains), sanitation demands, customer service skills, kitchen essentials (equipment and professional preparation techniques), work ethic, management and communication. Students will gain certification for a Clay County Handlers license as part of the curriculum. Nationally recognized certificate from the National Restaurant Association is obtainable by completing and passing both Culinary Arts I and Culinary Arts II while working at least 400 hours in the field. A Missouri National Restaurant Association certificate will be given for completing and passing both Culinary Arts I and Culinary Arts II without the employment element.

Prerequisite: Grade of C or above in Introduction to Culinary Arts or International Culinary Arts, or testing out with instructor approval.

Please Note: Additional work credit available: Students may receive 0.5 credit per semester for working 12+ hours a week in a food related field while taking Culinary Arts I. The student must have verified employment and be evaluated in a job approved by the teacher.

Course Name: Culinary Arts- Pro Start II

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 11th-12th

Dual Credit: Yes

Course Description: This course is for the student who is considering a career in restaurant and food service and/or the hospitality industry. The course will build on and continue to apply skills learned in Culinary Arts I. This course will cover international and historical influences on food, cooking methods (breakfast foods and sandwiches, salads and garnishing, meat, poultry, and seafood, desserts and baked goods), nutrition, marketing, work ethic, business math, entrepreneurship, and sustainability. A nationally recognized certificate from the National Restaurant Association is obtainable by completing and passing both Culinary Arts I and Culinary Arts II while working at least 400 hours in the field. A Missouri National Restaurant Association certificate will be given for completing and passing both Culinary Arts I and Culinary Arts II without the employment element.

Prerequisite: Grade of C or above in Culinary Arts I and a passing score on the national ProStart I test.

Please Note: Additional work credit available: students may receive 0.5 credit per semester for working 12+ hours a week in a food related field while taking Culinary Arts II. The student must have verified employment and be evaluated in a job approved by the teacher.

Course Name: Design Pathways Entrepreneurship

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grade Eligible: 10th-12th

Course Description: Students will take their entrepreneur ideas and focus on bringing their vision to reality. The idea is the student's own as they work through the process of Entrepreneurship. Students will follow a specifically designed model that brings business studies to life through experiential learning, executed in real, market-based scenarios. It will also introduce economic thinking.

Prerequisites: Students have the choice to take Introduction to Fashion Fundamentals, Housing and Interior Design, OR Fashion and Merchandising Marketing.

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Course Name: Educational Internship Program I

Credit Hours: 0.5 or 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 12th

Dual Credit: Yes, if taking both EIP I and EIP II

Course Description: This college level course is intended for seniors who are seriously considering pursuing teaching as a profession. Students will be assigned a cooperating classroom in the district in order to assist the teacher with classroom preparation, tutoring, small group learning activities, and whole group instructional opportunities. Students will also engage in pedagogical studies, online discussions, and instructional projects that throughout the course that explore classroom culture, literacy, theories of learning, and other educational issues. Strategies are aligned to local, state, and national standards for college and career readiness. All students taking EIP must adhere to the policies and procedures of their cooperating schools and classrooms as well as their high school. Students who qualify may earn college credit.

Prerequisite: Interested students will complete an online application. Teacher recommendations, GPA, attendance, and discipline records will be reviewed before acceptance and placement.

Course Name: Educational Internship Program II

Credit Hours: 0.5 or 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 12th

Dual Credit: Yes, if taking both EIP I and EIP II

Course Description: During the second semester of EIP, interns will assist their cooperating teachers with classroom preparation, tutoring, and instructional activities related to multiple intelligences, lesson design, and assessment. Students will also explore the roles of diversity and differentiation in the contemporary classroom. Strategies are aligned to local, state, and national standards for college and career readiness. All students taking EIP must adhere to the policies and procedures of their cooperating schools and classrooms as well as their high school. Students who qualify may earn college credit.

Prerequisite: Educational Internship Program I

Course Name: Fashion Merchandising and Marketing

Credit Hours: 0.5

Primary Credit Type: Practical Arts

Grades Eligible: 9th-12th

Course Description: Fashion Merchandising and Marketing is designed to introduce students to the fast-paced and ever-changing fashion industry. In this class, you will learn how to predict next year's fashion trends, analyze consumers' past buying patterns, examine the psychology aspect of how consumers buy, identify emerging trends in retail, identify key target markets, and recognize past and current cultural influences. Students will also learn how color, fabrics, consumer motivation, sales, and fashion publications affect the art of merchandising and marketing. Students will have the chance to apply knowledge by working with the school store.

Course Name: Housing & Interior Design

Credit Hours: 0.5

Primary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Course Description: Housing and Interior Design provides students with the opportunity to study the elements required to create an attractive and functional living space. This course introduces students to the wide variety of careers in the field of housing and interiors through hands-on activities. Technology and actual sample materials are used to develop projects related to architecture and interior design. Creativity and application of the elements and principles of design are emphasized.

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Course Name: International Culinary Arts

Credit Hours: 0.5

Primary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Course Description: International Culinary Arts will expand on food preparation skills, and students will learn how other countries prepare common dishes. Students will also explore origins, culture, geography, religion, customs, economics, and historical events that have shaped each country's cuisine.

Course Name: Interpersonal Development & Health

Credit Hours: 0.5

Primary Credit Type: Practical Arts

Grades Eligible: 10th-12th

Course Description: Learning to Adult and to become successful members of society is what this course will encourage as well as being positive critical thinkers and problem solvers. Areas of study will include; understanding oneself, relationships, family systems, career aptitude, communication, and coping skills. The course content will promote the development of the skills necessary for a successful career and family in today's changing world.

Please Note: This course does not meet the Health graduation requirement. It is a Practical Art or Elective Only.

Course Name: Introduction to Child Development

Credit Hours: 0.5

Primary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Course Description: The emphasis of this semester course will focus on the responsibilities involved in pregnancy, birth, and caring for children. The evaluation of physical, emotional, and intellectual development of children is also covered. Understanding the developmental tasks and growth patterns of children enables the students to recognize individual differences in children. Through coursework and hands-on application, students will develop a broader understanding of how and why children respond in everyday situations.

Course Name: Introduction to Culinary Arts

Credit Hours: 0.5

Primary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Course Description: Using MyPlate as a guide, students will examine a variety of foods to learn proper preparation skills and good nutrition. Combining good nutrition with today's busy lifestyle, understanding influences on food choice, and staying within a given budget will be emphasized.

Please Note: Students who are currently working in the food and hospitality industry may apply to go directly into Culinary Arts I with teacher approval.

Course Name: Introduction to Fashion Fundamentals

Credit Hours: 0.5

Primary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Course Description: Fashion Fundamentals will involve students in critical thinking through the examination of fashion, consumer awareness, clothing selection and care, garment constructing, technology and careers. The skills and techniques that are developed through hands-on application can be applied to many careers in today's society.

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INDUSTRIAL TECHNOLOGY

Course Name: Advanced Woodworking

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 10th - 12th

Course Description: This advanced course contains an in-depth study of how industry develops, designs, markets and produces quality products. Each student will select a major project or set of projects (projects require instructor approval). Students will utilize software and hardware common in the industry. Students are evaluated on daily efficiency and work quality.

Prerequisite: Grade of C or above in Introduction to Woodworking and teacher recommendation.

Please Note: Each student pays shop fees for projects they wish to take home. All other projects will be auctioned.

Course Name: Auto Tech I (This Class Meets at LHS Only)

Credit Hours: 0.5

Primary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Course Description: In this introductory course students will explore the world of automotive technology. Emphasis will be placed upon shop safety, hand tools, shop equipment, vehicle service information and the operation of various automotive systems that make up a modern day vehicle. Additional topics include engine theory and construction, electrical basics and automotive career opportunities.

Course Name: Auto Tech II (This Class Meets at LHS Only)

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 10th - 12th

Course Description: This course is designed to help students gain entry-level automotive service skills. Through classroom and lab activities students will learn about two ASE areas, Brakes and Steering & Suspension. At the end of the course students will participate in the ASE Student Certification testing for Brakes, Steering & Suspension and MLR (Maintenance and Light Repair).

Prerequisite: Automotive Technology I or teacher approval

Please Note: This class is blocked 1st semester so you will need to enroll in (2) spring semester classes.

Course Name: Auto Tech III (This Class Meets at LHS Only)

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 11th - 12th

Course Description: This course is designed to help students gain entry-level automotive service skills. Through classroom and lab activities students will learn about two ASE areas, Electrical/Electronic Systems and Engine Performance. At the end of the course students will participate in the ASE Student Certification testing for Electrical/Electronic Systems, Engine Performance and MLR (Maintenance and Light Repair).

Prerequisite: Automotive Technology II or teacher approval.

Please Note: This class is blocked 2nd semester so you will need to enroll in (2) fall semester classes.

Course Name: Introduction to Woodworking

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Course Description: This course will introduce students to industrial safety, materials, industrial measurement and math, material processes, material grading, hand tools, fastening devices, joint construction, product assembly, machine safety and operation, modern technology, and mass production. Students will use software and hardware common in the industry. Students are evaluated on daily efficiency and work quality.

Please Note: Each student pays shop fees for projects above and beyond the standard course projects.

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INTERNATIONAL LANGUAGE

Course Name: Chinese I

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 9th - 12th

Course Description: Throughout the course students will develop basic communication skills in Mandarin Chinese including reading, writing, speaking, and listening. Students will participate in a study of the Chinese culture as well as develop basic skills in character writing.

Course Name: Chinese II

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 10th - 12th

Course Description: Students will continue to develop communication skills in Mandarin Chinese in reading, writing, speaking, and listening. This course will also expand the work with developing skills in character writing. The study of the Chinese culture will continue.

Prerequisite: Successful completion of a full year of Chinese I.

Course Name: Chinese III

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 11th - 12th

Course Description: Students will continue to develop communication skills in Mandarin Chinese in this third year of studying the language and culture. Students will work with the four competencies of reading, writing, speaking, and understanding. The content goal for this course is roughly equivalent to that of a second semester (Level 200) Chinese course.

Prerequisite: Teacher recommendation if below a B in Chinese II.

Course Name: Chinese IV

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 12th

Course Description: Students will continue to develop communication skills in Mandarin Chinese in this fourth year of studying the language and culture. Students will work with the four competencies of reading, writing, speaking, and understanding.

Prerequisite: Completion of Chinese III.

Course Name: French I

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 9th - 12th

Course Description: Students will learn to understand orally and to speak, read, and write simple sentences and questions in French. Oral work and class participation are emphasized. Students will become familiar with cultural differences between the U.S. and France through songs, food, dances, and skits.

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Course Name: French II

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 9th - 12th

Course Description: Students expand their knowledge of vocabulary, grammatical concepts, and cultural differences through film, international on-line resources, popular music, food, and holidays. They increase their ability to converse and write French in more complex sentence structures.

Prerequisite: Successful completion of a full year of French I.

Course Name: French III

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 10th - 12th

Course Description: Students begin a more complete study of French literature, history, and art. Conversation and listening comprehension are stressed. Authentic communication is the primary goal of this course.

Prerequisite: Teacher recommendation if below a B in French II.

Course Name: French IV Honors

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 11th - 12th

Course Description: Students will focus on authentic communication. There will be an emphasis on understanding current issues in the francophone world. Skits, presentations, and discussions prepare students to express their views on historical, literary, and cultural topics.

Prerequisite: Teacher recommendation if below a B in French III.

Course Name: French V Honors

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 12th

Course Description: Students use the grammatical and cultural understanding acquired in French IV to expand their study of the francophone world. Current events and conflicts in the francophone world are analyzed through a study of historical precedents. Proficiency in speaking, reading, and understanding native speakers and writing are the goals of this course.

Prerequisite: Teacher recommendation if below a B in French IV Honors.

Course Name: German I

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 9th - 12th

Course Description: Students will learn to understand and produce oral and written German. Oral work and class participation are emphasized. Extensive individual study and practice are an integral part of this course. Students will also become familiar with cultural aspects of German-speaking nations.

Course Name: German II

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 9th - 12th

Course Description: German II will expand the four major sequential steps in foreign language learning of listening, speaking, reading, and writing. A greater emphasis will be placed on the study of grammar. Students will acquire additional vocabulary that will enable them to interact in German spontaneously in a variety of typical cultural situations.

Prerequisite: Successful completion of a full year of German I.

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Course Name: German III

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 10th - 12th

Course Description: Students will review German II grammar and be able to express themselves in the past, present, and future tense both orally and in written activities. Conversations will be expanded and students will no longer be reactors to, but will initiate topics on a broader range of subjects. Cultural emphasis will be on the literature of German-speaking countries.

Prerequisite: Teacher recommendation if below a B in German II.

Course Name: German IV Honors

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 11th - 12th

Course Description: German IV Honors students will continue to work on grammatical concepts introduced in previous years. Through readings of varying lengths, discussion and composition topics, expansion of speaking and written fluency will be central to this course. Increasing proficiency in speaking, writing, reading, and listening in German, are goals of this course.

Prerequisite: Teacher recommendation if below a B in German III.

Course Name: German V Honors

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 12th

Course Description: German V Honors students will continue to work on grammatical concepts introduced in previous years. Readings of varying lengths, discussion and composition topics, and the expansion of speaking and written fluency will be central to this course. Increasing proficiency in speaking, writing, reading, and listening in German, are goals of this course.

Prerequisite: Teacher recommendation if below a B in German IV Honors.

Course Name: Spanish I

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 9th - 12th

Course Description: Throughout the course, students will develop basic communication skills of reading, writing, speaking, and listening. Hispanic culture will be highlighted.

Course Name: Spanish II

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 9th - 12th

Course Description: Building on the format of Spanish I, students will increase their vocabulary and will use more complex sentence structure and grammar skills in oral and written work in the present and past. Daily communication skills will be increasingly emphasized. Hispanic culture will be integrated into daily class activities as a natural comparison of cultures.

Prerequisite: Successful completion of a full year of Spanish I.

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Course Name: Spanish III

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 10th - 12th

Course Description: This advanced course emphasizes reading, writing, speaking, and listening in the target language. This course consolidates the language skills acquired in introductory level courses and builds communication skills by increasing knowledge of grammatical structures. Culture of the Spanish-speaking world is explored in greater detail.

Prerequisite: Teacher recommendation if below a B in Spanish II.

Course Name: Spanish IV Honors

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 11th - 12th

Course Description: This course consolidates the language skills acquired in introductory level courses and builds communication skills using practical high frequency language applied in everyday conversations. Students will acquire cultural competency with emphasis on the literature, geography, music, art history, and current events of Spanish-speaking countries. Authentic communication is the primary goal of this course.

Prerequisite: Teacher recommendation if below a B in Spanish III.

Course Name: Spanish V Honors

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 12th (11th with teacher Recommendation)

Course Description: This course prepares students to use Spanish in real-life situations by emphasizing oral communication and developing other basic language skills. Expansion of vocabulary is presented in culturally authentic contexts beyond the basic survival skills, setting the stage for extended discourse. Authentic communication is the primary goal of this course.

Prerequisite: Teacher recommendation if below a B in Spanish IV Honors.

Course Name: Spanish Heritage Speaker

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 9th - 12th

Course Description: This course is specific to Spanish Heritage Speakers, whose first or dominant language is Spanish and who are orally proficient in Spanish, but not necessarily proficient in reading and writing Spanish. Students will take a District Placement test to determine qualification for the program.

Prerequisite: District Placement Test Score determines qualification for this course.

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MATHEMATICS

Course Name: Advanced Algebra II

Credit Hours: 1.0

Primary Credit Type: Mathematics

Grades Eligible: 9th - 10th

Course Description: Students in this rigorous course will study the concepts of Algebra II at an accelerated rate. Algebra II continues the study of algebra, the representation of quantities using variables and mathematical operations to show relationships. Students will represent relationships and functions with linear equations and explore relationships of direct and indirect variation. Students will explore quadratic functions and perform operations with complex numbers. Polynomials and their properties will be explored and graphed. Students will explore exponential relationships, logarithmic functions, and probabilities.

Prerequisite: Grades of A in Algebra I and Geometry. Teacher recommendation from both courses.

Course Name: Advanced Precalculus with Trigonometry

Credit Hours: 1.0

Primary Credit Type: Mathematics

Grades Eligible: 10th - 12th

Course Description: This course will lay the foundation for Advanced Placement Calculus BC (two semesters of college calculus) during the student's senior year. Students in this rigorous course will study topics at an accelerated rate with an emphasis on in-depth understanding of the topics.

Recommendation: Grade of A in Advanced Algebra II or Algebra II, and teacher recommendation.

Course Name: Algebra I

Credit Hours: 1.0

Primary Credit Type: Mathematics

Grades Eligible: 9th - 12th

Course Description: Algebra I is organized around the families of functions, with special emphasis on linear and quadratic functions. Students will learn to represent them in multiple ways as verbal descriptions, equations, tables, and graphs. These functions will be applied and used to model real-world situations in order to solve arising problems. Students will also learn data analysis and apply geometric properties in the algebraic realm.

Prerequisite: Teacher placement.

Course Name: Algebra I PLP (This Class Meets at LNHS Only)

Credit Hours: 1.0

Primary Credit Type: Mathematics

Grades Eligible: 9th - 12th

Course Description: Algebra I PLP (Personalized Learning Plan) is organized around the families of functions, with special emphasis on linear and quadratic functions. Students will learn to represent them in multiple ways as verbal descriptions, equations, tables, and graphs. These functions will be applied and used to model real-world situations in order to solve arising problems. Students will also learn data analysis and apply geometric properties in the algebraic realm. The major difference between Algebra I and Algebra I PLP is that students will master the standards using a flexible pace. The course utilizes video, teacher interaction and interactive online homework to help check competency and develop mastery as students progress through the curriculum. Students can complete the course in one semester or take up to three semesters.

Prerequisite: Teacher recommendation considered

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Course Name: Algebra II

Credit Hours: 1.0

Primary Credit Type: Mathematics

Grades Eligible: 9th - 12th

Course Description: Algebra II continues the study of algebra, the representation of quantities using variables and mathematical operations to show relationships. Students will represent relationships and functions with linear equations and explore relationships of direct and indirect variation. Students will explore quadratic functions and perform operations with complex numbers. Polynomials and their properties will be explored and graphed. Students will explore exponential relationships, logarithmic functions, and probabilities.

Prerequisite: Passed both semesters of Algebra I and completed Geometry.

Recommendation: If a student does not achieve a grade of C or above in Algebra I, it is suggested that the student take Algebra I in summer school.

Course Name: Algebra II PLP (**This Class Meets at LNHS Only**)

Credit Hours: 1.0

Primary Credit Type: Mathematics

Grades Eligible: 9th - 12th

Course Description: Algebra II continues the study of algebra, the representation of quantities using variables and mathematical operations to show relationships. Students will represent relationships and functions with linear equations and explore relationships of direct and indirect variation. Students will explore quadratic functions and perform operations with complex numbers. Polynomials and their properties will be explored and graphed. Students will explore exponential relationships, logarithmic functions, and probabilities. The major difference between Algebra II and Algebra II PLP is that students will master the standards using a flexible pace. The course utilizes video, teacher interaction and interactive online homework to help check competency and develop mastery as students progress through the curriculum. Students can complete the course in one semester or take up to three semesters.

Prerequisite: Completion of Algebra I and Geometry, teacher recommendation considered

Course Name: AP Calculus AB

Credit Hours: 1.0

Primary Credit Type: Mathematics

Grades Eligible: 10th - 12th

Dual Credit: Yes at LNHS

Course Description: Advanced Placement Calculus AB is a course in introductory calculus. The topics covered are consistent with those in first semester college calculus. The course is designed to help students gain skills and information needed to pass the Calculus AB Advanced Placement exam.

Recommendation: Grade of B or above in Precalc with Trig or College Algebra with a semester of Trig.

Course Name: AP Calculus BC

Credit Hours: 1.0

Primary Credit Type: Mathematics

Grades Eligible: 11th - 12th

Dual Credit: Yes at LHS

Course Description: Advanced Placement Calculus BC studies topics consistent with those in two semesters of college calculus. The course is designed to help students gain skills and information needed to pass the Calculus BC Advanced Placement exam.

Prerequisite: Successful completion of Advanced Precalculus with Trigonometry or AP Calculus AB and teacher recommendation.

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Course Name: AP Statistics

Credit Hours: 1.0

Primary Credit Type: Mathematics

Grades Eligible: 11th - 12th

Course Description: AP Statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. This course involves the study of four main areas: exploratory analysis, planning a study, probability, and statistical inferences. Curriculum for this course follows the AP Statistics curriculum set by the College Board and is designed to prepare students for the AP Statistics exam in May. According to the College Board, students are expected to have mathematical maturity and quantitative reasoning ability upon entering this course. Students should have a complete working knowledge of graphical and algebraic concepts such as linear, quadratic, exponential, and logarithmic functions.

Prerequisite: A grade of B or higher in Algebra II

Course Name: College Algebra

Credit Hours: 1.0

Primary Credit Type: Mathematics

Grades Eligible: 11th - 12th

Dual Credit: Yes

Course Description: College Algebra is a year-long course where students may earn high school and college credit. The course is designed to acquaint students with the algebra mathematical theories, language, techniques, and models of functions of one independent variable. Students will learn to reason mathematically, solve problems, work applications, and carry out analytic work based on functions of one independent variable. This course emphasizes a graphic, numerical, analytic, and verbal approach to problem solving. Students must use a combination of these, partnered with graphing calculators and current technology, to interpret results and support conclusions.

Prerequisite: A grade of C or higher in Algebra II and teacher recommendation.

Course Name: Geometry

Credit Hours: 1.0

Primary Credit Type: Mathematics

Grades Eligible: 9th - 12th

Course Description: Geometry is the study of figures, their properties, and their role in the world around us. Students will learn how to identify, measure, describe, and classify geometric figures such as lines, triangles, quadrilaterals, circles, and various solid figures. Students will use reasoning skills and known properties to explore and prove certain relationships such as congruence, similarity, and transformations.

Prerequisite: Passing grade both semesters Algebra I.

Recommendation: If a student does not achieve a grade of C or above in Algebra I, it is suggested that the student take Algebra I in summer school.

Course Name: Geometry PLP (This Class Meets at LNHS Only)

Credit Hours: 1.0

Primary Credit Type: Mathematics

Grades Eligible: 9th - 12th

Course Description: Geometry is the study of figures, their properties, and their role in the world around us. Students will learn how to identify, measure, describe, and classify geometric figures such as lines, triangles, quadrilaterals, circles, and various solid figures. Students will use reasoning skills and known properties to explore and prove certain relationships such as congruence, similarity, and transformations. The major difference between Geometry and Geometry PLP is that students will master the standards using a flexible pace. The course utilizes video, teacher interaction and interactive online homework to help check competency and develop mastery as students progress through the curriculum. Students can complete the course in one semester or take up to three semesters.

Prerequisite: Completion of Algebra I, teacher recommendation considered

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Course Name: Precalculus with Trigonometry

Credit Hours: 1.0

Primary Credit Type: Mathematics

Grades Eligible: 10th - 12th

Course Description: This year-long course prepares college-bound students for their first semester of calculus or Advanced Placement Calculus AB. The topics covered include functions and their graphs (polynomial functions, rational functions, exponential functions, and logarithmic functions). Also included is the study of trigonometry (sine, cosine, and tangent functions and trigonometric identities).

Prerequisite: Completion of Geometry, a grade of B or above in Algebra II, and teacher recommendation.

Course Name: Probability & Statistics I

Credit Hours: 0.5

Primary Credit Type: Mathematics

Grades Eligible: 11th - 12th

Course Description: This semester course in statistics and probability will give students an introduction to the skills needed to understand and analyze quantitative information that is important in today's society. The topics covered include, but are not limited to, the definition of statistics, frequency distributions, graphing techniques, methods for analyzing data, and the definition of probability, rules of probability, probability distributions, and the normal distribution.

Prerequisite: Successful completion of Algebra II.

Course Name: Probability & Statistics II

Credit Hours: 0.5

Primary Credit Type: Mathematics

Secondary Credit Type:

Grades Eligible: 11th - 12th

Course Description: This semester course in probability and statistics will be a continuation of material covered in Probability & Statistics I. Topics covered will include confidence intervals, hypothesis testing, correlation, regression, chi-square tests, and the F-distribution.

Prerequisite: Probability and Statistics I.

Recommendation: Grade of C or above in Probability & Statistics I.

Course Name: Trigonometry I

Credit Hours: 0.5

Primary Credit Type: Mathematics

Grades Eligible: 11th - 12th

Course Description: Trigonometry is the study of angles of the right triangle and their relationships to the lines that form them. This branch of mathematics has its greatest impact in the areas of drafting, physics, engineering, computer technology, and electronics. The topics will include basic trigonometry functions, trigonometric identities, half and double angle functions, law of sine and cosine, and application of trigonometric functions.

Prerequisite: Successful completion of Geometry and Algebra II.

Course Name: Trigonometry II

Credit Hours: 0.5

Primary Credit Type: Mathematics

Grades Eligible: 11th - 12th

Course Description: Trigonometry II will be a continuation of the material covered in Trigonometry I. Topics covered will include trigonometric identities, half and double angle functions, the laws of sine and cosine, application of trigonometric functions, circular and inverse circular functions, the graphs of circular functions, complex numbers, polar equations, and parametric equations.

Prerequisite: Trigonometry I.

Recommendation: Grade of C or above in Trigonometry I.

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MISCELLANEOUS

Course Name: Digital Media Management

Credit Hours: 0.5

Primary Credit Type: Elective

Grades Eligible: 9-12

Course Description: Digital Media Management is a problem-focused, project-based, and student-driven course. Students will build expertise in digital resources, searching, evaluating, web tools, copyright, intellectual property, and plagiarism. They will develop tutorials and other supports to aid teachers and students in using new and existing resources. Participants will also support individual students and classrooms face-to-face and hands-on as they journey into an increasingly digital environment. Students enrolled in this course/program will show potential in collaboration, leadership, and self-motivation.

Prerequisite: Students must complete an application to participate in this course. Please see the Library Media Specialist at your school to pick up an application.

Course Name: NCAPS Digital Media & Design

Credit Hours: 1.5

Primary Credit Type: Elective

Grades Eligible: 11th - 12th

Dual Credit: College Credit is Available

Course Description: This course is for the creative/artistic student who is interested in exploring careers in Digital Media. The Digital Media and Design strand is divided into four sub strands, graphic design, digital photography, video production, and audio production. In this strand, students will meet professionals in the four sub strands, visit and work with local companies, use different tools and computer programs, and learn the different intricacy's and professional skills which coincide with the different sub strands. Projects in the past have included doing photography shoots for Sporting KC, The Roasterie, local bands, and fashion designers. The graphic designers have created album covers, t-shirt designs, business cards, backstage passes, and logos for startup companies. The video team has created promotional videos for a variety of Kansas City food trucks, Union Station, KC Drone, and the City of Gladstone. The audio team has made music mixes for Platinum Production, soundtracks for local movie makers, and original albums with peers. This strand is perfect for students who want to follow their passions in digital media for life after high school.

Prerequisite: Students must apply to participate in this program—see your counselor.

Course Name: NCAPS Engineering & Advanced Manufacturing

Credit Hours: 1.5

Primary Credit Type: Elective

Grades Eligible: 11th - 12th

Dual Credit: College Credit is Available

Course Description: This course is designed for students who are interested in engineering and manufacturing fundamentals, entrepreneurship, and innovation. Immerse yourself with engineers and manufacturers using state-of-the-art tools and software to create and test 3D prototypes solving complex problems. Apply lean manufacturing processes that create value for customers and drive out the waste in production. Students experience hands-on, active learning with full immersion in real-world projects sponsored by business partners like Ford Motor Company, Holland 1916, Garmin, Black & Veatch, Burns and McDonnell, Honeywell. Students work in multi-disciplinary teams to provide innovative solutions to a company's real-world problems. Engineering projects are tailored to student interest in the fields of chemical, electrical, mechanical, civil, environmental, software/computer, architectural, advanced manufacturing, robotics, biological, and environmental.

Prerequisite: Students must apply to participate in this program—see your counselor.

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Course Name: NCAPS Global Business & Entrepreneurship

Credit Hours: 1.5

Primary Credit Type: Elective

Grades Eligible: 11th - 12th

Dual Credit: College Credit is Available

Course Description: This course is designed for students that are interested in an ever-changing world, where business and marketing decisions must adapt to the global economy, many times resulting in global expansion of the business. Student partner with local, regional, national and international businesses to produce marketing plans, advertising and promotional plans, customer research, social media plans, event management, and strategic plans. Students will be introduced to domestic and global business operations, economic and cultural factors, political systems, and a survey of marketing within the global economy. Founders, owners, entrepreneurs, leaders of major corporations, small business, and startups in the local community will share their experience and expertise with the students through guest instruction, mentoring, and sponsoring internships. Students will be able to communicate with expert professionals locally and globally, while working as a team member on projects with their companies developing life-long mentoring relationships. Be prepared to use entrepreneurial skills to develop a domestic business with the intention to take it global.

Prerequisite: Students must apply to participate in this program—see your counselor.

Course Name: NCAPS Global Logistics & Transportation

Credit Hours: 1.5

Primary Credit Type: Elective

Grades Eligible: 11th - 12th

Dual Credit: College Credit is Available

Course Description: **ThiS** course is ideal for students who are interested in developing the professional and technical skills required to forge forward in exploring all areas of logistics and transportation. Logistics is managing the flow of goods in to and out of a company. Supply chain management is managing the flow of goods, information and money from raw materials to component parts to finished goods to the ultimate consumer. Supply chain management is the ultimate competitive advantage. You will learn a set of skills that will allow you to effectively streamline the flow of materials, finances and information for a company. Your experience in the logistics and transportation program will prepare you for one of the fastest growing fields. You will learn how to improve customer service and reduce overall supply chain costs. Supply chain managers decrease costs and inefficiencies to widen profit margin. Examples of logistics and transportation jobs include supply chain management consulting, export/import operations and management, distribution management, and materials planning.

Prerequisite: Students must apply to participate in this program—see your counselor.

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Course Name: NCAPS Medicine & Healthcare

Credit Hours: 1.5

Primary Credit Type: Elective

Grades Eligible: 11th - 12th

Dual Credit: College Credit is Available

Course Description: This course embeds students in the hospital setting, providing real world experiences in the dynamic field of medicine and healthcare. Alongside some of the region's most experienced medical professionals, students will advance their understanding of human physiology, disease process, medical terminology, patient care, professionalism, ethics, and provide an exploration of many career opportunities in healthcare. In the classroom, students will expand upon principles of human physiology through in-depth study of body systems, develop fluency in basic medical language, formulate treatment plans for patients, practice physical assessment skills, and perform patient care and life-saving procedures within a high-fidelity simulation lab. These activities are designed to enhance student analysis and problem solving skills. Students will also learn from diverse healthcare providers who visit the classroom as guest lecturers and mentors. Students will receive certification in CPR and AED. Students also self-select a focused CAPStone project for the semester, connecting to mentors in their area of interest to develop a project that is real, relevant, and of service to the community. Outside the classroom, learning experiences will involve numerous site visits to a variety of medical and healthcare facilities, e.g. North Kansas City Hospital, St. Luke's Hospital, KU Medical Center, and Cerner, exposing students to a variety of medical professions, medical research and innovative advancements.

Prerequisite: Students must apply to participate in this program—see your counselor.

Course Name: NCAPS Technology Solutions

Credit Hours: 1.5

Primary Credit Type: Elective

Grades Eligible: 11th - 12th

Dual Credit: College Credit is Available

Course Description: This course is ideal for students who are interested in developing the professional and technical skills required to forge forward in exploring all areas of technology. Discover a vast array of specialty areas available in technology careers where professionals utilize technology to solve business problems and design products. Immerse yourself in a professional environment while you tackle and solve real-world problems. Explore the following areas as they relate to PCs and mobile devices: software engineering, web development, operating systems, hardware technologies, network design/technologies, management information systems and emerging technologies. Students will perform real world projects for clients utilizing the expertise of diverse guest instructors, mentors and business partners, e.g. Cerner, NetStandard, Sprint, Garmin, DST and other technology companies. Students interested in design will create a wide array of digital assets in a profession-based learning environment, which provides opportunities to collaborate with mentors and business clients, e.g. Hallmark, VML, Barkley, HINT, MindMixer. Students will network with mentors and business partners delivering real products to their clients as well as creating a professional portfolio that illustrates their creative talent.

Prerequisite: Students must apply to participate in this program—see your counselor.

Course Name: Practical Leadership

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 10th - 12th

Course Description: Practical Leadership is a year-long general elective course open to students in grades 10-12 who are interested in developing their leadership potential. Students selected for this course will recognize leadership styles and the influence of leadership, demonstrate an understanding of group dynamics, develop effective communication skills, demonstrate organization, management, and project planning skills, practice effective decision-making, and plan and participate in school and community service projects. Please Note: This course requires a commitment of out-of-school time. Class size is limited and students are selected by application and teacher approval.

Prerequisite: Teacher Approval

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PERFORMING ARTS (Debate/Speech)

Course Name: Advanced Debate

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 10th - 12th

Course Description: Advanced Debate is a year-long course designed to assist students in redefining basic skills learned in Debate I and to teach advanced debate theory along with more complex principles of strategic debate, and argumentation. Course work includes advanced study in debate theory, debate strategy and topic analysis, completion of written assignments such as varied case formats, negative and affirmative briefs, persuasive speeches, and participation in practice debates as well as competitive debates on a varsity level. Students must prepare individual speaking events for competition and will accumulate points for advanced membership in the National Forensic League. Participation in four interscholastic debate and forensic tournaments during the year is required.

Prerequisite: Grade of B or above in Debate I, an overall GPA of 2.5, and teacher approval.

Course Name: Debate I

Credit Hours: 1.0

Primary Credit Type: Eng Lang Arts Elective

Grades Eligible: 9th - 12th

Course Description: Debate I is a year-long course designed to teach the skills of analysis, research, and reasoning. Students learn to logically develop and organize rational arguments on both sides of controversial subjects and defend those arguments thoughtfully and articulately from the attack of others. Coursework includes the study of basic debate theory, topic analysis, the completion of written assignments such as evidence cards, simple case formats, briefs, persuasive speeches, and participation in practice and competitive debates on a novice level. Students accumulate points for membership in the National Forensics League. Participation in four interscholastic debate and forensics tournaments during the year is required. This commitment includes rehearsal in addition to classroom hours and weekend travel with the Debate and Forensic Team.

Prerequisite: 2.5 GPA, MSHAA eligible, average grade of B or above throughout the year, and teacher approval.

Course Name: Advanced Speech

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 10th - 12th

Course Description: This course will provide an overview of the theory and guided practice of the skills used in intrapersonal, interpersonal, group, and public communication. Student will conduct an interview, participate in small group discussions, and present both an informative and persuasive speech.

Prerequisite: Grade of B or above in Speech I or higher or teacher approval.

Recommendation: For juniors and senior students who can handle college-level curriculum.

Please Note: To earn college credit, a student must have a GPA of a 3.0 or above and a score of 21 or above on the ACT.

Course Name: Speech I

Credit Hours: 0.5

Primary Credit Type: Eng Lang Arts Elective

Grades Eligible: 9th - 12th

Course Description: Students will increase their ability and confidence as speaker and presenter in the areas of discussion, persuasion, entertainment, and providing information. This semester course introduces students to the basic techniques of speech writing, delivery, and style. Students study communication theory as a basis for refining their own listening skills and for analyzing audience needs. Students will write and deliver impromptu, extemporaneous, and scripted speeches.

Please Note: Students can only take this course once for credit. This course is a prerequisite for Advanced Speech.

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PERFORMING ARTS (Music)

Course Name: Band

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades Eligible: 9th - 12th

Course Description: Students must be able to work and perform together as a group. Each band member is furnished a uniform and is expected to practice and perform at many activities during the course of the year. There are three bands at LHS and LNHS including the Marching Band, the Symphonic Band, and the Concert Band. Auditions for Symphonic Band and Concert Band are given at the conclusion of the marching season to determine personnel in the two concert ensembles. Many opportunities are available for individuals and small groups to perform throughout the year such as all-district/state band, district/state music festival, and pep bands. Students must provide their own instruments and accessories, (i.e. lyres, gloves, reeds, mutes and percussion sticks/mallets). All band students are encouraged to study privately outside of the school day with qualified instructors in the metro area to further their musical development. The course meets daily for a full year.

Course Name: Color Guard

Credit Hours: 0.5

Primary Credit Type: Elective

Grades Eligible: 9th - 12th

Course Description: Students will study a variety of dance and other forms of movement in relation to various styles of music. Students enrolled in the course will be required to perform as a part of the marching band and as a standalone group. They will perform at home football games, pep assemblies, and other community events. They will participate in 2-3 evaluative festivals per semester. The student's grade will be based on participation, performance assessments, and various research assignments.

Prerequisite: Students wishing to enroll in this course must audition in the Spring.

Course Name: Concert Choir

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades Eligible: 10th - 12th

Course Description: This year-long, advanced-level mixed choir is open to any junior or senior by audition. Students continue mastery of vocal technique and performance, music literacy, and independent sight-singing. Students are required to participate in many performances throughout the school year. A year-long commitment is mandatory to participate in this choir. Students need to remain MSHSAA eligible in order to be in this course.

Prerequisite: Enrollment in this course is by teacher placement only.

Course Name: Liberty Chorale-Women's

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades Eligible: 9th - 12th

Course Description: This full-year course is open to students who enjoy singing and have a desire to perform. This course is designed to help students discover and develop their musical abilities through a curriculum that focuses on proper vocal techniques, reading music, and written music theory skills. Students will participate in rehearsals and stage performances. Students are required to participate in various activities and performances outside of the school day throughout the year.

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Course Name: Liberty Chorale-Men

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades Eligible: 9th - 12th

Course Description: This full-year course is open to students who enjoy singing and have a desire to perform. This course is designed to help students discover and develop their musical abilities through a curriculum that focuses on proper vocal techniques, reading music, and written music theory skills. Students will participate in rehearsals and stage performances. Students are required to participate in various activities and performances outside of the school day throughout the year.

Course Name: Women's Honor Choir

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades Eligible: 10th - 12th

Course Description: This year-long, advanced-level choir is open to treble voices by audition. Students study advanced treble choir choral literature, vocal techniques, and music reading skills. Students are required to participate in many performances throughout the school year. A year-long commitment is mandatory to participate in this choir. Students need to remain MSHSAA eligible in order to be in this course.

Prerequisite: One year of experience in either choir taken during 9th grade or Liberty Chorale is required. Enrollment in this course is by teacher placement only.

Course Name: Chamber Orchestra

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades Eligible: 10th - 12th

Course Description: This course is for the dedicated string instrumentalist with exceptional rehearsal skills. Large ensemble performance is emphasized along with individual development in technique, style, and common practices of the Baroque, Classical, Romantic, and Contemporary genres. Students should be prepared to play for a variety of functions as well as yearly contests and regularly scheduled performances.

Please Note: Enrollment in this orchestra is by audition and teacher placement only. Students will be placed in the orchestra that offers them the most musical growth.

Course Name: Concert Orchestra

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades Eligible: 9th - 12th

Course Description: This course is for all string instrumentalists who are working to improve their playing technique. Both large and small group performance is emphasized along with individual development in technique, style, and introductions to various genres of music. Students should be prepared to play for a variety of functions as well as regularly scheduled performances.

Please Note: Students will be placed in the orchestra that offers them the most musical growth. Enrollment in this orchestra is by audition and teacher placement only.

Course Name: Freshman Orchestra

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades Eligible: 9th

Course Description: This course is for Freshman string instrumentalists who are working to improve their playing technique. Both large and small group performance is emphasized along with individual development in technique, style, and introductions to various genres of music. Students should be prepared to play for a variety of functions as well as regularly scheduled performances.

Prerequisite: Participation in orchestra at the middle school or by audition. Please note students will be placed in the orchestra that offers them the most potential for musical growth.

Please Note: Students will be placed in the orchestra that offers them the most musical growth.

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Course Name: Symphonic Orchestra

Credit Hours: 1 .0

Primary Credit Type: Fine Arts

Grades Eligible: 10th - 12th

Course Description: This course is for the dedicated string instrumentalist with exceptional rehearsal skills. Large ensemble performance is emphasized along with individual development in technique, style, and common practices of the Baroque, Classical, Romantic, and Contemporary genres. Students should be prepared to play for a variety of functions as well as yearly contests and regularly scheduled performances.

Please Note: Enrollment in this orchestra is by audition and teacher placement only. Students will be placed in the orchestra that offers them the most musical growth.

Course Name: AP Music Theory

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades Eligible: 11th-12th

Course Description: This course gives students the opportunity to obtain in-depth instruction in basic music theory, keyboard proficiency, and ear training skills which are required to be successful in a performance ensemble as a college music major or minor.

Note: Enrollment in this course is by teacher placement only.

Course Name: Music Appreciation

Credit Hours: 0.5

Primary Credit Type: Fine Arts

Grades Eligible: 9th - 12th

Course Description: This course is designed to teach students how to listen to and understand music. The four main topics covered include: 1.) Music foundations and fundamentals. 2.) Music history from antiquity to the present examining the culture of the music's origin. 3.) The origins of jazz and its development. 4.) Musical theater and popular music from 1950 to the present. Students listen to musical examples daily and emphasis is placed on how the listener experiences the music.

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PERFORMING ARTS (Theatre)

Course Name: Advanced Theatre

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades Eligible: 10th - 12th

Course Description: Advanced Theatre is a year-long course designed for advanced theatre students who have experience in live theatrical productions. Students will spend the year producing a full-length play or series of one-acts which will be performed for the public. Students will focus their course work on performance, technical theatre, or a combination of both. Students will apply advanced skills in acting, directing, scenic design, set construction, lighting design, stage management, theatre management, costume design, make-up design, and technical theatre. Students enrolled in this course will be required to spend a minimum of one week in rehearsal outside the regularly scheduled school day. Students must fulfill the co-curricular commitment in order to enroll in the course.

Prerequisite: Theatre, and/or Stagecraft, and/or teacher approval.

This course may be repeated.

Course Name: Competitive Theatre

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades Eligible: 9th - 12th

Course Description: Competitive Theatre is a year-long course designed to offer a variety of performance experiences at the interscholastic competition level. Students will explore literature for performances that will include children's storytelling, humorous and dramatic interpretation, duo improvisation, duo interpretation poetry, prose, storytelling, one-act play, reader's theatre, original oratory, and extemporaneous speaking. Students will prepare for competition and rehearse independently, in groups, and with private direction. Participation in four interscholastic forensic tournaments is required. This commitment includes rehearsal, in addition to classroom hours and weekend travel with the Debate and Forensics team. Students may letter as a Varsity member of competition.

Prerequisite: Students must be MSHSAA eligible to compete to enroll in the course.

Please Note: This is a one-credit fine arts course and may be repeated with a course grade of B or above and instructor permission for each additional credit in each year completed

Course Name: Stagecraft

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Course Description: Stagecraft is a year-long course designed for students who enjoy problem solving and working with their hands and want to combine that with the study of theatre. Students will design and construct scenery using power tools and scenic materials in the scene shop. Particular attention will be paid to using math to enlarge scenery from drawings created by a scenic designer. Students enrolled in Stagecraft are an integral part of the production process at LHS or LNHS and viewing live productions provides a sense of overall accomplishment. Students will be expected to see a high school theatrical production they worked on each semester, free of charge. Appropriate clothing for working in the scene shop will be a required.

Please Note: This course may be repeated.

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Course Name: Technical Theatre

Credit Hours: 1 .0

Primary Credit Type: Fine Arts

Secondary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Course Description: Technical Theatre is a year-long course designed for students interested in theatre technology. Students will apply skills in light, sound, stage management, event management, and production design. Students will design a soundscape using a sound board, microphones, and speakers. Particular attention will be paid to production design and stage management. Students enrolled in this course will be required to attend rehearsals and/or performances outside the regularly scheduled school day. Students will be assigned technical positions in the main stage shows at LHS or LNHS.

Prerequisite: Theatre, and/or Stagecraft, and/or Technical Theatre, and/or teacher approval. This course may be repeated.

Course Name: Theatre

Credit Hours: 1.0 credit

Primary Credit Type: Fine Arts

Grades Eligible: 9th -12th

Course Description: Theatre is a year-long class designed to introduce students to the fundamentals of theatre. Students will spend the year gaining a fundamental understanding of all aspects of theatre, including set design and construction, acting and performance, technical theatre, storytelling, stage management, script analysis, pantomime, costume and make-up, and properties. In addition, students will learn about technical theatre aspects of lighting and sound equipment.

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PHYSICAL EDUCATION

Course Name: Athletic Strength Training

Credit Hours: 0.5

Primary Credit Type: Physical Education

Grades Eligible: 9th - 12th

Course Description: This course is offered to athletes who are primarily interested in developing and understanding techniques to improve their physical skills. This course will be fourfold in the development of the athlete: 1. Weight training. 2. Quickness and agility. 3. Speed and jumping ability. 4. Flexibility. Class activities will consist of Olympic style weightlifting, form running, flexibility exercises, and plyometrics. Student evaluation will be based on class participation, weight-lifting increases, and teacher observation. Suitable physical education clothing is required. Sweats needed for outdoor activities.

Please Note: Class hours: 7:45 - 8:55 a.m. Students must provide their own transportation. Seniors are allowed with teacher approval only. Students may sign up for this class twice.

Course Name: Body Sculpting

Credit Hours: 0.5

Primary Credit Type: Physical Education

Grades Eligible: 9th - 12th

Course Description: This semester course is offered to improve a student's level of fitness. The emphasis will be placed on variations of aerobic dance routines, muscle toning, and functional strength training. Nutrition, pilates, yoga, and flexibility will also be incorporated. Workouts are designed to develop cardiovascular endurance, muscular endurance, muscular strength, and flexibility. The goal of the course is based on the individual's need whether to maintain, lose, or gain from ones current weight and to tone muscles.

Course Name: Health

Credit Hours: 0.5

Primary Credit Type: Health

Grades Eligible: 10th – 12th

Course Description: This course will reflect health issues that confront students in their teen years. Topics will include substance abuse, teen pregnancy, smoking, conflict resolution, decision-making skills, and living a balanced, healthy life-style.

Please Note: This course does not count for Physical Education credit. This is a blended learning course. Teachers will use face-to-face instruction and at times will release students to locations within the building to learn from online content, meet in small groups with the instructor, and/or collaborate with classmates.

Course Name: Lifetime Recreational Sports

Credit Hours: 0.5

Primary Credit Type: Physical Education

Grades Eligible: 9th - 12th

Course Description: This semester course is offered to expose and acquaint students with recreational activities that will serve and interest them beyond graduation. Activities offered are volleyball, backyard activities, archery, racquet sports, and fitness/jogging. Individual fitness gains will be measured through fitness testing. Grade emphasis will be placed on attendance, participation, fitness, skill development, knowledge of rules, and sportsmanship. Evaluation procedures used to measure student progress will be written, fitness conditioning workouts (2-days/week), daily participation, and teacher observation. Physical education clothing for indoor and outdoor activities will be required. Students are expected to dress out daily.

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Course Name: Sports Medical Trainer

Credit Hours: 0.5

Primary Credit Type: Elective

Grades Eligible: 11th - 12th

Course Description: This semester course is offered to expose students to the profession of athletic training and sports medicine. The students will obtain an understanding in the healing process of injuries, the administration of injury prevention techniques, the treatment of athletic injuries, and rehabilitation of athletic injuries. Grade emphasis will be placed on attendance, class and clinical participation, skills development, and knowledge of subject.

Prerequisite: Health and Biology I.

Please Note: This course does not count for Physical Education credit.

Course Name: Team Sports

Credit Hours: 0.5

Primary Credit Type: Physical Education

Grades Eligible: 9th - 12th

Course Description: This course will offer a semester of competitive activity involving team sports popular on the American scene today. Activities to be offered are football or fleet ball, volleyball, basketball, soccer, fitness and jogging, pickle ball, handball, and floor hockey. Emphasis will be placed on attendance, participation, fitness, skill development, knowledge of rules, and sportsmanship. Evaluation procedures used to measure student progress will be written assessments, fitness conditioning workouts (2-days/week), daily participation, and teacher observation. Physical education clothing for indoor and outdoor activities will be required. Students are expected to dress out daily.

Course Name: Weight Training

Credit Hours: 0.5

Primary Credit Type: Physical Education

Grades Eligible: 9th - 12th

Course Description: This course is for students interested in achieving a higher level of strength and physical fitness. Students will be provided with the opportunity to increase both their understanding and level of health and skill related fitness. Individual fitness gains will be measured. Class will consist of weight training, aerobic workouts, and daily conditioning programs. Students will be evaluated on class participation, exercise technique, class attendance, and knowledge of fitness. Students may sign up for this course twice.

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PROJECT LEAD THE WAY-ENGINEERING

Course Name: Aerospace Engineering (This Class Meets at LNHS Only)

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 10th - 12th

Dual Credit: Yes

Course Description: Aerospace Engineering propels students' learning in the fundamentals of atmospheric and space flight. As students explore the physics of flight, they bring the concepts to life by designing an airfoil, propulsion system, and rockets. Students learn basic orbital mechanics using industry-standard software. Students also explore robot systems through projects such as remotely-operated vehicles.

Prerequisite: Introduction to Engineering Design or teacher approval.

Please Note: Students who pass the final with 70% or better and achieve 85% or better in the course are eligible for college credit. The registration and fee for the credit must be received by Rochester Institute of Technology before December 31st of the year the test is taken.

Course Name: Civil Engineering & Architecture

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 10th - 12th

Dual Credit: Yes

Course Description: This course provides an overview of the fields of civil engineering and architecture, while emphasizing the interrelationship and dependence of both fields on each other. Students use state-of-the-art 3D software to solve real-world problems and communicate solutions to hands-on projects and activities. This course covers such topics as the roles of civil engineers and architects, project planning, site planning, building design, project documentation, and presentation.

Prerequisite: Introduction to Engineering Design or teacher approval.

Please Note: Students who pass the final with 70% or better and achieve 85% or better in the course are eligible for college credit. The registration and fee for the credit must be received by Rochester Institute of Technology before December 31st of the year the test is taken.

Course Name: Computer Int Manufacturing (This Class Meets at LHS Only)

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 10th - 12th

Dual Credit: Yes

Course Description: Computer Integrated Manufacturing (CIM) is a project based PLTW course that is a study of manufacturing, planning, integration, and implementation of automation. This hands on course gives students the opportunity to utilize high tech equipment like a CNC Mill, CNC Lathe, Plasma Cutter, Laser Engraver, CNC Router, a CNC Robotic Arm, and VEX equipment to solve problems. Various software applications such as Robot C, Inventor, Edge Cam, CNC Motion, Robocell, Flowbotics, and Lynxmotion are used to program the machinery.

Prerequisite: Introduction to Engineering Design or teacher approval.

Please Note: Students who pass the final with 70% or better and achieve 85% or better in the course are eligible for college credit. The registration and fee for the credit must be received by Rochester Institute of Technology before December 31st of the year the test is taken.

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Course Name: Digital Electronics

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 10th - 12th

Dual Credit: Yes

Course Description: Digital Electronics is a rigorous course in the Project Lead the Way Engineering program in applied logic that encompasses the applications of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices. Topics include circuit designs and rules, Boolean algebra, logic gates, uses of different IC chips, and some simple programming. Students are expected to apply mathematical skills in the problem solving and design process. Students should expect homework assignments on a consistent basis.

Prerequisite: Introduction to Engineering Design or teacher approval.

Recommendation: Strong math and reasoning skills.

Please Note: Students who pass the final with 70% or better and achieve 85% or better in the course are eligible for college credit. The registration and fee for the credit must be received by Rochester Institute of Technology before December 31st of the year the test is taken.

Course Name: Engineering Design & Development

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 11th - 12th

Course Description: This capstone course for the Project Lead the Way Engineering Program is an engineering research course in which students work in teams to develop, design, and construct a solution to an open-ended engineering problem. Students apply principles developed in the preceding courses and are guided by a community mentor. They must present progress reports, submit a final written report, and defend their solutions to a panel of outside reviewers at the end of the school year.

Prerequisite: Introduction to Engineering Design, Principles of Engineering, and one of the following: Digital Electronics, Civil Engineering and Architecture, Computer Integrated Manufacturing, Aerospace Engineering or teacher approval.

Course Name: Introduction to Engineering & Design

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 9th - 12th

Dual Credit: Yes

Course Description: This course is for students interested in engineering and/or architecture related fields. Units of study include sketching, multi-views, pictorial and 3D-drawing, sections, dimensioning, auxiliary, and architectural drawings. Students will be expected to use 2D and 3D CAD software to solve problems and present designs. Powerful Autodesk software such as AutoCAD and Inventor will be utilized. Technical reading and math skills are needed.

Please Note: Students who pass the final with 70% or better and achieve 85% or better in the course are eligible for college credit. The registration and fee for the credit must be received by Rochester Institute of Technology before December 31st of the year the test is taken.

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Course Name: Principles of Engineering

Credit Hours: 1.0

Primary Credit Type: Practical Arts

Grades Eligible: 10th - 12th

Dual Credit: Yes

Course Description: This rigorous course helps students understand the field of engineering and engineering technology. Students learn how engineers and technicians solve problems by applying math, science, and technology concepts to various technology systems and manufacturing processes. Topics and course material include design process, material strength testing, structural analysis, statics, kinematics, and robotics. Concerns about social and political consequences of technological changes are also discussed. Students will be expected to apply mathematical skills to engineering problems. Some working knowledge of Inventor software is helpful. Students should expect homework assignments on a consistent basis.

Prerequisite: Introduction to Engineering Design or teacher approval.

Please Note: Students who pass the final with 70% or better and achieve 85% or better in the course are eligible for college credit. The registration and fee for the credit must be received by Rochester Institute of Technology before December 31st of the year the test is taken.

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SCIENCE

Course Name: AP Biology

Credit Hours: 1.0

Primary Credit Type: Science

Grades Eligible: 11th - 12th

Dual Credit: Yes

Course Description: Advanced Placement Biology is a rigorous college biology course. Topics include biochemistry, cell biology, genetics, biotechnology, evolution, botany, and zoology. Course work will involve extensive lab activities including animal behavior and dissection. Students are expected to participate in all investigations and complete detailed lab reports. This course is equivalent to a major's college biology course and students may acquire college credit by enrolling in the dual credit program through Rockhurst University (reduced tuition). Students may also earn credit by sitting for the AP College Board Exam.

Prerequisite: Successful completion of Biology II.

Course Name: AP Chemistry

Credit Hours: 1.0

Primary Credit Type: Science

Grades Eligible: 12th

Dual Credit: Yes

Course Description: Advanced Placement Chemistry is a third-year chemistry course designed to expand on previous knowledge and prepare students for earning college credit. A wide range of chemistry topics are addressed. Students are expected to participate in rigorous instruction, complete detailed lab reports, and perform successfully on exams. This course will also provide students with an opportunity to earn college credit by enrolling in the University of Missouri-Kansas City dual credit program (reduced tuition) and/or sitting for the AP College Board Exam.

Prerequisite: Successful completion of College Chemistry.

Course Name: AP Environmental Science

Credit Hours: 1.0

Primary Credit Type: Science

Grades Eligible: 11th - 12th

Course Description: This course is designed to be equivalent to an introductory college-level course in environmental science. Students will study the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Units of study will include the flow of materials and energy throughout the biosphere, renewability of resources, environmental quality, and the human impact on the environment. Upon completion of this course, students will be prepared to sit for the AP College Board Exam.

Course Name: AP Physics I

Credit Hours: 1.0

Primary Credit Type: Science

Grades Eligible: 11th - 12th

Dual Credit: Yes

Course Description: This course features a detailed study of classical mechanics (including rotational dynamics and rotational momentum), work, energy, power, mechanical waves and sound, and electricity. Students will demonstrate higher-level mathematical skills utilizing problem-solving processes. Lectures and labs are used to enhance the course for students. Grades are based on labs, tests, homework, and quizzes. This course is equivalent to the first semester of a college physics course, and students may earn college credit by enrolling in the dual credit program through the University of Missouri- Kansas City (reduced tuition) or by sitting for the AP College Board Exam.

Prerequisite: Completion of Algebra II or concurrent enrollment in Algebra II.

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Course Name: AP Physics II

Credit Hours: 1.0

Primary Credit Type: Science

Grades Eligible: 12th

Dual Credit: Yes

Course Description: This course features a detailed study of fluid mechanics, waves, electricity, and modern physics. Students are expected to demonstrate higher-level mathematics skills in the problem-solving process. Lectures and labs are used to enhance the course for students. Grades are based on labs, tests, homework, and quizzes. This course is equivalent to the second semester of a college physics course, and students may earn college credit by enrolling in the dual credit program through the University of Missouri- Kansas City (reduced tuition) or by sitting for the AP College Board Exam.

Prerequisite: AP Physics I

Course Name: Biology I

Credit Hours: 1.0

Primary Credit Type: Science

Grades Eligible: 9th – 12th

Course Description: Students in this course will be introduced to the following topics including the nature of science, biochemistry, ecology, cellular processes, genetics, natural selection, classification, and human body systems. Throughout the year, students will also participate in critical thinking activities and traditional lab investigations. Students will demonstrate understanding through development of laboratory skills, class projects, problem-solving situations, daily assignments, and tests.

Note: All Freshmen will enroll in either Biology I or Honors Biology I.

Course Name: Biology II

Credit Hours: 1.0

Primary Credit Type: Science

Grades Eligible: 10th - 12th

Course Description: Biology II is a year-long, upper-level course designed for those with a serious interest in biology and medicine. The first semester will explore a variety of topics pertaining to human physiology and disease focusing on biochemistry, cell biology, microbiology, and genetics. Lab activities will simulate medical techniques such as microscopy, bacterial culturing, and a diagnostic study involving the identification of an unknown bacterium. The second semester focuses on human anatomy and physiology. Students will learn about various organ systems and their interrelatedness in homeostasis. Lab exercises will involve an introduction to histology, blood-typing techniques, and gross anatomical dissection using various organs such as a sheep heart. A cat dissection will be used as a comprehensive model for human anatomy.

Prerequisite: Successful completion of Biology I or Honors Biology I.

Note: This course is a prerequisite for AP Biology.

Course Name: Biomedical Innovation

Credit Hours: 1.0

Primary Credit Type: Science

Grades Eligible: 12th

Dual Credit: Yes

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

Students who earn a B or better may acquire elective college credit by submitting an application to Missouri University of Science & Technology after completion of the course (reduced tuition).

Prerequisite: Successful completion of Medical Interventions

Note: Students are strongly encouraged to enroll in traditional science coursework concurrently with the PLTW courses.

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Course Name: College Chemistry

Credit Hours: 1.0

Primary Credit Type: Science

Grades Eligible: 11th - 12th

Dual Credit: Yes

Course Description: This second-year chemistry course is designed to explore new topics and extend on previous knowledge of chemistry. Topics will include quantum theory and atomic structure, stoichiometry, chemical reactions, gases, thermochemistry, bonding, shapes of molecules, intermolecular forces, and properties of crystalline solids. Students are expected to exhibit good study skills and will be required to complete lab reports, homework assignments, and perform successfully on exams. This course builds upon students' previous knowledge in preparation for AP Chemistry. This course is equivalent to the first semester of a major's level college chemistry course and students may acquire college credit by enrolling in the dual credit program through the University of Missouri-Kansas City (reduced tuition).

Prerequisite: Successful completion of Theoretical Chemistry or Honors Theoretical Chemistry.

Note: This course is a prerequisite for AP Chemistry.

Course Name: Earth & Space Science

Credit Hours: 1.0

Primary Credit Type: Science

Grades Eligible: 11th - 12th

Course Description: This course is designed to assist students in developing a knowledge base for making informed decisions about scientific initiatives in the context of geological principles. Included in the units of the course are concepts related to rocks and minerals, natural resources and energy, plate tectonics, weathering and erosion, atmosphere, and astronomy. Students will use inquiry, discussion, and research to extend their knowledge and explore how these different topics affect their lives.

Course Name: Honors Biology I

Credit Hours: 1.0

Primary Credit Type: Science

Grades Eligible: 9th – 12th

Course Description: Students in this course will be introduced to the following topics including the nature of science, biochemistry, ecology, cellular processes, genetics, natural selection, classification, and human body systems. While the course content is similar to Biology I, the Honors Biology I course will conduct more in-depth laboratory investigations with greater statistical analysis and more technical writing of laboratory reports. Throughout the year, students will also participate in critical thinking activities, traditional lab investigations, and mammal dissection. Students will demonstrate understanding through development of laboratory skills, class projects, problem-solving situations, daily assignments, and tests.

Note: All Freshmen will enroll in either Biology I or Honors Biology I.

Course Name: Honors Theoretical Chemistry

Credit Hours: 1.0

Primary Credit Type: Science

Grades Eligible: 10th - 12th

Course Description: This introductory course provides students with a thorough understanding of fundamental chemistry concepts. A comprehensive study of chemistry involves manipulation of algebraic equations; therefore, good math skills are important. Students should expect to use algebra in performing calculations throughout the course. Topics of study include matter, atomic structure, the Periodic Table, chemical formulas and reactions, stoichiometry, bonding, gas behavior, and pH, and nuclear chemistry. Students will apply their understanding of chemistry concepts in the laboratory and on individual assessments. This course moves at a faster pace and requires a greater degree of mathematical precision than Theoretical Chemistry.

Prerequisite: Successful completion of Algebra I.

Note: Fulfills prerequisite for College Chemistry. All sophomores will enroll in either Honors Theoretical Chemistry, Theoretical Chemistry, or Physical Science.

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Course Name: Human Body Systems (PLTW)

Credit Hours: 1.0

Primary Credit Type: Science

Grades Eligible: 10th - 12th

Dual Credit: Yes

Course Description: Students engage in the study of the processes, structures, and interactions of the human body systems. Important concepts in the course include communication, transport of substances, locomotion, metabolic processes, defense, and protection. The central theme is how the body systems work together to maintain homeostasis and good health. The systems are studied as parts of a whole, and how they work together to keep the amazing human machine functioning at an optimal level. Students design experiments, investigate the structures and functions of body systems, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiratory operation. Students work through interesting real-world cases and often play the role of biomedical professionals to solve medical mysteries. Students who earn a B or better may acquire elective college credit by submitting an application to Missouri University of Science & Technology after completion of the course (reduced tuition).

Prerequisite: Successful completion of Principles of Biomedical Science or Biology II.

Note: Students are strongly encouraged to enroll in traditional science coursework concurrently with the PLTW courses.

Course Name: Medical Interventions (PLTW)

Credit Hours: 1.0

Primary Credit Type: Science

Dual Credit: Yes

Grades Eligible: 11th - 12th

Course Description: Medical practice includes interventions to support humans in treating disease and maintaining health. Student projects will investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care. Students will study the design and development of various medical interventions including vascular stents, cochlear implants, and prosthetic limbs. They will review the history of organ transplants and gene therapy, and read current scientific literature to be aware of cutting edge developments. Using 3D imaging software and current scientific research, students will design and build a model of a therapeutic protein. Students who earn a B or better may acquire elective college credit by submitting an application to Missouri University of Science & Technology after completion of the course (reduced tuition).

Prerequisite: Successful completion of Human Body Systems or AP Biology.

Note: Students are strongly encouraged to enroll in traditional science coursework concurrently with the PLTW courses.

Course Name: Physical Science

Credit Hours: 1.0

Primary Credit Type: Science

Grades Eligible: 10th – 12th

Course Description: This introductory course emphasizes the fundamentals of both chemistry and physics as it explores the relationships between matter and energy. Areas of study will include scientific measurement, atomic theory, periodic trends, chemical reactions, forces, motion, and waves. Through these topics, students will acquire laboratory skills and enhance their problem-solving abilities, while demonstrating their knowledge of mathematical relationships.

Note: All sophomores will enroll in either Honors Theoretical Chemistry, Theoretical Chemistry, or Physical Science.

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Course Name: Physics

Credit Hours: 1.0

Primary Credit Type: Science

Grades Eligible: 11th - 12th

Course Description: This is a general physics survey course recommended for students who want an introduction to physics. Topics covered are vectors, kinematics, dynamics, work and energy, momentum, thermodynamics, electricity and magnetism, and, sound and light. Students are expected to have strong math skills in the problem-solving process. Grades are based on labs, tests, quizzes, and homework. Lectures and labs are used to enhance the course for students. This course is not required for AP Physics 1.

Prerequisite: Completion of Algebra II or concurrent enrollment in Algebra II.

Course Name: Principles of Biomedical Sciences (PLTW)

Credit Hours: 1.0

Primary Credit Type: Science

Dual Credit: Yes

Grades Eligible: 9th - 11th

Course Description: This introductory course provides an overview of the biomedical sciences through hands-on projects and problems. Student work involves web-based research, lab activities, class presentations, and modeling related to human body systems. The course provides an overview of human body systems and health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. Students who earn a B or better may acquire elective college credit by submitting an application to Missouri University of Science & Technology after completion of the course (reduced tuition).

Prerequisite: Biology I or Honors Biology I (may be taken concurrently).

Note: Students are strongly encouraged to enroll in traditional science coursework concurrently with the PLTW courses.

Course Name: Theoretical Chemistry

Credit Hours: 1.0

Primary Credit Type: Science

Grades Eligible: 10th - 12th

Course Description: This introductory course provides students with a thorough understanding of fundamental chemistry concepts. A comprehensive study of chemistry involves manipulation of algebraic equations; therefore, good math skills are important. Students should expect to use algebra in performing calculations throughout the course. Topics of study include matter, atomic structure, the Periodic Table, chemical formulas and reactions, stoichiometry, bonding, gas behavior, and pH. Students will apply their understanding of chemistry concepts in the laboratory and on individual assessments.

Prerequisite: Successful completion of Algebra I.

Note: Fulfills prerequisite for College Chemistry. All sophomores will enroll in either Honors Theoretical Chemistry, Theoretical Chemistry, or Physical Science.

Course Name: Zoology

Credit Hours: 1.0

Primary Credit Type: Science

Grades Eligible: 10th - 12th

Course Description: This course combines the principles of zoology, emphasizing levels of organization, life processes common to all organisms, and evolutionary development. Topics range from nutrient processing and homeostasis to reproduction and taxonomic classification which will expand on knowledge from Biology I. Students will engage in a survey of organisms and will participate in a wide variety of lab opportunities including investigations in animal behavior and dissection of both vertebrates and invertebrates along with comparative anatomy and physiology.

Prerequisite: Successful completion of Biology I or Honors Biology I.

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SOCIAL STUDIES

Course Name: American Government & Economics

Credit Hours: 1.0

Primary Credit Type: American Government & Economics

Grades Eligible: 11th – 12th

Course Description: During this year-long course, students will examine the principles of constitutional democracy in the United States, the relevance and connection of constitutional principles, processes of government systems including campaigns and elections, the relationships among the three branches of government, and compare different government systems. Students will also be studying the federal and state constitutions. After the study of government, students will study basic economic concepts including supply and demand, factors of production, scarcity, inflation, and monetary and fiscal policies. Different economic systems will be compared with special focus on the characteristics of a market economy and the role of the government. This course, along with the Missouri and U.S. Constitution test, must be passed in order to graduate.

Please Note: Students may complete this course or AP American Government to fulfill their graduation requirement.

Course Name: American History

Credit Hours: 1.0

Primary Credit Type: American History

Grades Eligible: 9th

Course Description: This year-long course begins with the Reconstruction Period and examines historical events and trends to the modern day. Major early concepts investigated will be Industrialization and growth of the United States, the early 1900s, Imperialism, the Progressive Movement, Isolationism, World War I, the Depression and New Deal, World War II, the Cold War, Civil Rights, and Post-Cold War America. Students will be required to actively participate in their learning, as several unit projects will be completed.

Course Name: AP American Government

Credit Hours: 1.0

Primary Credit Type: American Government & Economics

Grades Eligible: 11th – 12th

Course Description: Advanced Placement American Government is a year-long course designed to provide students with a complete and thorough study of the political beliefs, processes, institutions, and policies of the United States. Students will closely examine and analyze political behaviors, campaigns, elections, the branches of government, public policy decisions, and civil rights and liberties. In addition, state and local government, including the Missouri constitution, will be studied. Material will be presented at a college level with extensive reading and writing required. Students who take the Advanced Placement exam may earn college credit with a qualifying score. This course may be used to satisfy the American Government & Economics graduation requirement.

Prerequisite: GPA of 3.5 or higher and teacher approval.

Please Note: Students may complete this course or American Government & Economics to fulfill their graduation requirement. Students may not take AP Government if they have completed American Government & Economics.

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Course Name: AP European History

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 11th - 12th

Course Description: Advanced Placement European History is a challenging, year-long course that is designed to be the equivalent of a freshman college survey course in Western Civilization. The course covers the history of Europe from the late Middle Ages to the end of the Cold War and the attempts at the unification of Europe. The major theses of the last six centuries of European history will be examined including intellectual and cultural history, political and diplomatic history, and social and economic history. Students are expected to do a considerable amount of critical reading in the primary text and the various supplementary sources encountered in their research and provided by the instructor. The course also places emphasis on analytical writing (using primary and secondary sources), class discussion, and research. Thus, students should possess strong reading and writing skills and be willing to devote the necessary time to the study and completion of assignments. Students should expect an essay assignment every three weeks and a multiple choice test over each chapter. Twice during the academic year students will be given a practice AP European History exam, after extensive practice on the skills necessary for success on the written portion of this exam. The overall grade in this course is based upon chapter tests, written assignments, and class participation.

Prerequisite: World History and a GPA of 3.5 or above.

Course Name: AP Psychology

Credit Hours: 1.0

Primary Credit Type: Elective

Grades Eligible: 11th - 12th

Dual Credit: Yes at LNHS

Course Description: AP Psychology is a year-long college based curriculum course designed for college-bound students. College level work and performance is required from students in achieving an understanding of material. The course provides an introduction to the scientific study of behavior and mental processes. An emphasis will be placed on research, learning, motivation, biology of behavior, personality, and psychopathology. Students will be exposed to psychological facts, principles, and each of the major sub fields within psychology.

Prerequisite: GPA of 3.0 or above and previous demonstration of college level school performance.

Course Name: AP U.S. History

Credit Hours: 1.0

Primary Credit Type: American History

Grades Eligible: 11th - 12th

Course Description: Advanced Placement United States History is a yearlong course designed for college-bound students. College-level work is required from students in the areas of reading, thinking, and writing. Students need to be self-motivated and willing to work both independently and in collaboration. This course covers the political, economic, and social development of American civilization from pre-discovery until present while focusing on a variety of themes. Students have the option of earning college credit by taking the AP exam.

Prerequisite: Three units of Social Studies, a GPA of 3.5 or above, and recommendation of instructor.

Recommendation: American History, World History, and recommendation of instructor.

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Course Name: AP World History

Credit Hours: 1.0

Primary Credit Type: World History

Grades Eligible: 10th

Course Description: Advanced Placement World History is a college-level course that offers students a chance to earn college credit by taking an advanced placement exam at the end of the year. Advanced Placement World History studies the history of the world from the Neolithic Age to the present. Six themes are stressed throughout the course as it approaches the history of the world chronologically. The course is truly global in its scope with only 30% of the class time devoted to the United States and Europe. The five major time units are 8000 BCE – 600 CE, 600 – 1450, 1450 – 1750, 1750 – 1914, and 1914 – present.

Prerequisite: GPA of 3.5 or above or teacher recommendation.

Please Note: Students may not take AP World History if they have completed World History.

Course Name: Contemporary Issues

Credit Hours: 0.5

Primary Credit Type: Elective

Grades Eligible: 11th - 12th

Course Description: Students will identify major trends, issues, and problems confronting them in today's world. The pressing social, economic, and political issues, both international and domestic, will be described, evaluated, understood, and analyzed. Students will develop and employ critical thinking, reading, writing, verbal, and social science skills. Topics to be covered will include foreign relations, domestic and international economics, and the social, cultural, and political trends of contemporary America.

Recommendation: Average grade of B or above in previous social studies classes.

Course Name: History of the Holocaust

Credit Hours: 0.5

Primary Credit Type: Elective

Grades Eligible: 11th - 12th

Course Description: This semester course will look at European Jewish life before, during, and after the Holocaust. Topics will include anti-Semitism, Jewish culture, and Nazi persecution of Jews and other groups as well as displaced persons camps and life after World War II. Emphasis will be placed on the use of primary sources. Students are expected to do a considerable amount of critical reading in the primary texts and the various supplementary sources encountered in their research and provided by the instructor. The course will follow the guidelines established by the U.S. Holocaust Memorial Museum.

Course Name: Honors American History

Credit Hours: 1.0

Primary Credit Type: American History

Grades Eligible: 9th

Course Description: This yearlong course begins with the Reconstruction Period and examines historical events and trends to the modern day. Major early concepts investigated will be Industrialization and growth of the United States, the early 1900's, Imperialism, the Progressive Movement, Isolationism, World War I, the Depression and New Deal, World War II, the Cold War, Civil Rights, and Post-Cold War America. Students will be required to actively participate in their learning through extensive use of primary source analysis, historical questioning, Socratic dialogues, research, and writing. Students will be encouraged to challenge the history they read and examine different perspectives.

Prerequisite: Grade of A in 8th grade Social Studies and recommendation from 8th grade Social Studies Teacher or 8th grade English Language Arts teacher.

Recommendation: Grade of A in 8th grade English Language Arts class is also recommended.

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Course Name: International Relations

Credit Hours: 0.5

Primary Credit Type: Elective

Grades Eligible: 11th - 12th

Course Description: This semester course deals with the study of international relations and how nation-states interact with each other on a global scale. Students are introduced to the discipline of international relations through an overview of international security, foreign policy, international organizations, international law, and international political economy. Topics include the Cold War, the role of the United Nations, human rights, terrorism, and diplomacy.

Course Name: Psychology I

Credit Hours: 0.5

Primary Credit Type: Elective

Grades Eligible: 11th - 12th

Course Description: This semester course is an introduction into the study of human behavior. The course familiarizes students with the principles and applications of psychological study. A major goal of the course is to help students gain an understanding of themselves. Key topics covered in the course include the brain and its effect on behavior, consciousness (sleep and mediation), memory, the learning process, personality theory, intelligence, and creativity.

Course Name: Psychology II

Credit Hours: 0.5

Primary Credit Type: Elective

Grades Eligible: 11th - 12th

Course Description: Psychology II is a semester course that covers topics in Psychology not covered in Psychology I. The emphasis in Psychology II is again to help students understand themselves and others. The course also helps students find ways to adapt, in a successful way, to life's challenges and experiences. Topics include adolescent development, stress management, abnormal psychology, and therapy. Students also have the opportunity to carry out a research project (using the experimental method) on a topic of special interest to them.

Course Name: Sociology

Credit Hours: 0.5

Primary Credit Type: Elective

Grades Eligible: 10th - 12th

Course Description: Students will explore the origins of our values/beliefs and behaviors and society's behaviors as well as explore the concepts and theories necessary to understand society. Topics include considering sociology as science, the nature of large-and small-scale groups, social stratification, historical eras and social change, and race, ethnic, and gender relations.

Course Name: Sociology II

Credit Hours: 0.5

Primary Credit Type: Elective

Grades Eligible: 10th – 12th

Course Description: Sociology II is a continuation of the application of the major perspectives to understand more fully specific areas of American society. This course will allow students to explore current issues and areas that have a direct impact on their lives by being able to study them sociologically and to determine possible solutions to problems or methods to deal with issues. Sociology is the study of society effect on people's behaviors, and in Sociology II, students will do this more specifically in areas such as social classes, deviance, racial inequality and effects of urbanization.

Prerequisite: Sociology

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Course Name: World History

Credit Hours: 1.0

Primary Credit Type: World History

Grades Eligible: 10th

Course Description: This year-long course traces the development of world history, especially western civilization, from the early days of civilization through the modern era. The contributions and interactions among major civilizations of Asia, Europe, Africa, the Americas, and the Middle East will be included as students study early world civilizations and cultures, classical Greece and Rome, religions of the world, the Middle Ages, the Renaissance and Reformation, the Age of Exploration & Colonialism, the Scientific Revolution, the Enlightenment, revolutions, Industrialism, Imperialism, nationalism, and 20th century conflicts. The impact of geography and the economic consequences of world events will be an integral component of this course.

Please Note: Students may complete this course or AP World History to fulfill their graduation requirement.

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VISUAL ARTS

Course Name: Advanced Studio Art

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades Eligible: 11th - 12th

Course Description: This is a yearlong course for students interested in creating a portfolio that may earn college credit. The focus will be the breadth of your 12 projects. This course is the prerequisite for AP Studio Art.

Prerequisite: Passing Grade in Digital Photo, Graphic Design II, Observational Drawing II, or Sculpture II.

Course Name: AP Studio Art

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades eligible: 11th - 12th

Course Description: This is a college level exploration of visual arts in a student selected area of focus. Students will build a 3-part portfolio of work in accordance with expectations outlined by the College Board. Portfolio submission will be in the spring. The Portfolio score is provided by the College Board and will be combined with individual college policies to determine the level to which college credit is earned. Students may choose to create a portfolio in Drawing and Painting, 2-Dimensional Design (multi-media, digital or photography) or 3-Dimensional design.

Prerequisite: Advanced Studio Art

Please Note: This course can be repeated if a student chooses to complete more than one portfolio area. Advanced Studio Art and AP Studio Art can be taken concurrently during the same school year to accomplish portfolio submission in one year.

Course Name: Art Foundations

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades Eligible: 9th – 12th

Course Description: This course is a yearlong introductory course. Students will explore the elements and principles in a variety of 2-dimensional and 3-dimensional media.

Course Name: Digital Photography

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades Eligible: 10th - 12th

Course Description: This year long course introduces students to photography as a creative and artistic medium. Students will focus on the basic tools, techniques, and aesthetics of digital photography. Students will learn camera operation, composition, lighting, exposure control, as well as utilize basic photo editing software.

Please Note: Students will be required to furnish a digital camera with a minimum of 10 mega pixels and a memory card (1G recommended). No cell phone cameras.

Course Name: Graphic Design I

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades Eligible: 9th - 12th

Course Description: This yearlong course will focus on a creative process that combines art with technology to communicate ideas to a particular audience.

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Course Name: Graphic Design II

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades Eligible: 10th - 12th

Course Description: This year-long course is a continued exploration of graphic design and visual communication. It is an advanced study of the elements and principles of design and their application to more complex two-dimensional and three-dimensional projects. Concept development and advanced design process practices will be emphasized while students solve practical design problems.

Prerequisite: C or higher in Graphic Design I

Course Name: Observational Drawing I

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades Eligible: 9th - 12th

Course Description: This yearlong course introduces students to the basic drawing and painting techniques used to realistically render a variety of subject matter. The focus of this course is drawing from observation and techniques used to create the illusion of form and space.

Course Name: Observational Drawing II

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades Eligible: 10th - 12th

Course Description: In this year-long course, students will build on the techniques used in Observational Drawing I. Media will include pastels, colored pencils, watercolor, and acrylics, but now the emphasis will be on color and technique while still drawing from observation.

Prerequisite: Observational Drawing I

Course Name: Sculpture I

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades Eligible: 9th - 12th

Course Description: This yearlong course will focus on three dimensional art. Students will use a variety of media; however, clay is the predominant media of choice in creating free-standing sculptures using additive, subtractive, and replacement processes.

Course Name: Sculpture II

Credit Hours: 1.0

Primary Credit Type: Fine Arts

Grades Eligible: 10th - 12th

Course Description: This year-long course challenges continuing sculpture students to further develop and refine sculpting abilities in the areas of carving, modeling, casting and assemblage and other 3 dimensional processes. Students will further develop and deepen their sense of aesthetic style and design. Greater flexibility in use of media is available to students such as wood, paper, plaster, stone, recycled products, and other materials which prove interesting. Field trips to the Nelson-Atkins or area galleries occur to broaden understanding and deepen appreciation of art.

Prerequisite: C or higher in Sculpture I

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MO CAREER CENTER LINKS

Area Career Center (Excelsior Springs) course descriptions can be found by clicking on the link below:

<https://docs.google.com/document/d/1fuJuap4xY3yMmWRX5-T9LsNnmeAUXBfzTPLSHMPn50U/edit>

Northland Career Center (Platte County) course descriptions can be found by clicking on the link below:

<https://www.plattecountyschooldistrict.com/northland>

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