

2022-23
Scheduling
Handbook

Lebanon High School



and

Lebanon Technology &
Career Center



LEBANON TECHNOLOGY & CAREER CENTER

Dear LHS Students and Parents:

This Scheduling Handbook is an important tool for students and parents to use in planning course selections for next year. In addition to providing course descriptions and course prerequisites, this handbook provides information regarding graduation requirements, college entrance requirements, four-year high school program planning, and career planning.

The career planning section asks students to examine their interest, abilities and talents based on six broad academies that also list potential career pathways. The intent is not for students to decide on a specific life-long occupation, but to focus on a broad career academy to help them select their high school courses over a four-year period. Career academies and pathways provide relevance to students' course selections throughout high school. Each pathway provides a suggested program of study for careers from entry level to levels requiring a baccalaureate degree and beyond. Students may change academies during their high school career as the student explores their interest and experiences various activities related to their pathway.

In addition to this handbook, students and parents should work with counselors and teachers to make the appropriate decisions regarding course selection. It is important to make informed decisions as teachers are employed, textbooks and materials ordered and class sections and rooms are assigned based on student requests. Once student schedules are created, changes are made only to balance classes or meet very specific individual student concerns. If you have any questions regarding our scheduling process, please feel free to contact the counseling department. Working together, we will ensure that every student has a rewarding high school experience-whatever it takes, no excuses!

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PREFACE

The faculties of Lebanon High School (LHS) and Lebanon Technology and Career Center (LTCC) have been active in curriculum development and believe that a comprehensive curriculum is necessary to meet the needs of all students. Contained within this Scheduling Handbook are courses which should meet the needs of students who wish to pursue further education and those students who wish to join the workforce upon graduation from high school.

The faculties ask that each curricular offering be considered with regard to the student's future ambitions. Each course description should be studied as to the content and procedures which shall be used within the class.

We hope that our students will take full advantage of the resources of our schools and enroll in areas which will enable them to develop their full potential, allowing them to contribute significantly to society.

Courses listed in this guide exceed the number of courses that ultimately will be offered. Only those courses with a sufficient number of students enrolled will be placed in the master schedule.

TO THE STUDENT

In developing the Scheduling Handbook, the staff has provided you with a brief and accurate description of material to be studied in each course.

Since choosing the right courses often requires making difficult decisions, it is suggested that you follow the steps listed below. Hopefully this information will prove helpful to you in the decision-making process.

1. Read and study the Scheduling Procedures, Course Selection/Schedule Changes, and the rest of the Course Description Guide.
2. Talk with your counselor concerning your graduation requirements earned and credits needed; your abilities, interests, and future goals.
3. Note that when "recommended" grades and/or "recommended" prior courses for enrollment into class are listed, this is to be considered as a guide or suggestion for enrollment.

Devoting proper time to planning your schedule will start your journey to a successful and enjoyable year.

LHS MISSION STATEMENT

It is our MISSION to inspire a passion for learning through positive relationships, personalized experiences, and a focus on the future---whatever it takes, no excuses!

LHS VISION STATEMENT

It is our VISION to become the greatest high school in America. To that end, we will be an adaptive learning community that empowers all learners with the knowledge, skills, and dispositions to be ready for their future---whatever it takes, no excuses!

LTCC MISSION STATEMENT

Inspire College and Career Readiness in All.

LTCC VISION STATEMENT

Preparing all students to be College and Career Ready in their chosen career path.

LEBANON HIGH SCHOOL SHARED COMMITMENTS

We believe that LHS will reach its vision when students, staff, and parents actively participate as members of an integrated and mutually supportive team. In light of these commitments, our students will be challenged to develop their individual talents in a nurturing atmosphere of high expectations and personal support. Working together, we will maximize the learning potential of all students and ensure that everyone has a great high school experience.

Every Day Our Students Will. . .

- Have a positive attitude toward learning.
- Attend school and do their very best.
- Take pride in their school, their work, and their contributions.
- Be on time to each class, fully prepared, engaged, and ready to learn.
- Respect school property and all members of the school community.
- Complete all assignments and projects on time.
- Obey all school rules, procedures, and policies.
- Not interfere with the learning and achievement of others.

Every Day Our Staff Will. . .

- Be professional, fair, accepting, nurturing, and respectful.
- Maintain a prevailing belief that all students can and will be successful.
- Be student-centered, vision-directed, and results-oriented.
- Provide tailored interventions to those students who struggle in school.
- Instruct students until they have mastered the essential course level expectations.
- Have high, yet reasonable expectations for students' growth and development.
- Maintain a safe, orderly, and intellectually rigorous classroom environment.
- Be appropriately prepared for daily instruction and will use class time effectively.
- Demonstrate expertise in the areas of curriculum, instruction, and assessment.
- Establish and maintain open channels of communication with students and their parents.

Every Day Our Parents Will. . .

- Value the importance of learning and the need for education in today's ever-changing world.
- Be supportive and respectful of the faculty, staff, and school.
- Ensure that their child attends school on a daily basis and is always on time.
- Ensure that their child completes all daily assignments and projects in an exemplary fashion.
- Ensure that their child is well rested, nourished, and appropriately dressed for school.
- Promote good study habits.
- Take an active interest in their child's schoolwork and participation in school activities.
- Be informed about their child's progress in school through regular contact and use of the parent portal.
- Talk to their child on a daily basis about the happenings at school.

COUNSELING SERVICES

The counseling office provides services to help students with questions concerning classes, future education plans, career opportunities and personal issues. The information shared in the counselor's office is considered confidential unless the safety of the student or other students is in jeopardy. If a student's safety is in question, confidentiality must be broken.

The counseling office is a valuable resource for post-secondary placement. College and university catalogs and admission materials are available in the counseling office. Scholarship and financial aid information is available on the Lebanon High School webpage and in the counseling office. Students are assigned to a counselor according to their last name and remain with that counselor throughout the four years of high school.

Michael Winfrey	last names A-E
Heidi Conti	last names F-L
Stacie Vestal	last names M-R
Toni Redick	last names S-Z

ENROLLMENT

New students and parents/guardians must pick up an enrollment form from the main office and then visit our website <https://lebanonr3.org/> and follow the online enrollment instructions.

Once discipline, health, and academic records are received and approved, the student will meet with a counselor to complete a schedule and discuss graduation requirements. Students must be enrolled within the first fifteen (15) days of a semester in order to earn credit. This requirement may be waived due to extenuating circumstances by an administrator.

Students at Lebanon High School will be promoted to the next grade level upon completion of a required amount of credits. The following will be used to determine grade level classifications.

- 0 - 5.75 credits = Freshman
- 6 - 11.75 credits = Sophomore
- 12 - 17.75 credits = Junior
- 18+ credits = Senior

SCHEDULING PROCEDURES

Existing students will receive scheduling materials each spring for the following fall registration of classes. Student course requests will be collected and a master schedule will be built. For many classes, the student must have met a prerequisite or have a teacher's signature in order to enroll. Students are encouraged to gain input from parents, teachers, and their counselor to choose the best classes for their future plans.

SCHEDULE CHANGE REQUEST*

Drop	Teacher Initials	Add	Teacher Initials

*Courses will be considered based upon seat availability.

*Schedule changes are not in effect until the student receives a revised schedule from the counselor’s office.

Reason #1: Level Change (Academic misplacement)

- Once a student, parent, and teacher recognize that the student should consider a level change this form should be completed. **Teachers/students will have only 20 class days to drop/add a course, this includes all classes at LHS.**
- **No level change is permitted after the first 20 class days.**

Teacher Signature: _____ Date teacher conferred with parent (required): _____

Parent Signature: _____ Date: _____

Student Signature: _____ Date: _____

Counselor/Case Manager Signature: _____ Date: _____

Reason #2: Program Change (student has been accepted or is no longer enrolled in a specific program of study)

- Once a student, parent, & teacher agree to enrollment or un-enrollment of the specific program this form is to be completed. A student may transfer into or out of a specific program before the start of school.

Teacher Signature: _____ Date teacher conferred with parent (required): _____

Parent Signature: _____ Date: _____

Student Signature: _____ Date: _____

Counselor/ Case Manager Signature: _____ Date: _____

Reason #8: Dropping an elective class to add Aide or School Flex period. (Seniors Only)

- Student must have and maintain a 95% cumulative attendance average
- Student must have and maintain a 2.5 GPA
- School Flex students must have and maintain a job or be enrolled in a college course
- Students may only have 1 School Flex (unless approved by administration) and 1 Aide block per semester

GPA _____ Attendance _____

Parent Signature: _____ Date: _____

Student Signature: _____ Date: _____

Elective Teacher Signature: _____ Date: _____

Place of Employment _____ Address _____

Supervisor’s Name _____ Telephone Number _____

Employer/College Representative Signature: _____ Date: _____
(Required for School Flex)

Counselor/Case Manager Signature: _____ Date: _____

Administrator Signature: _____ Date: _____

Activities Director Signature: _____ (if applicable) Date: _____

Reason #9: Appeal Process-- Persuasive Essay (must include pertinent documentation to support the requested change)

Parent Signature: _____ Date: _____

Student Signature: _____ Date: _____

Counselor/Case Manager Signature: _____ Date: _____

Administrator Signature: _____ Date: _____

Schedule changes will not be authorized for the following reasons (this list is not all inclusive):

1. The student does not like the teacher.
2. The parent does not like the teacher.
3. The teacher and student have a personality conflict.*
4. The teacher is “too hard” or “too demanding”.
5. The teacher’s tests are too difficult.
6. The teacher is “not hard enough”.
7. The teacher “gives too much work”.
8. The student is failing the class.
9. The student wants to change his/her lunch shift.
10. The student wants to be in classes with friends.
11. The student has a job and “works too many hours”.
12. The student is involved in too many extracurricular activities and is “too busy for this class”.

*Personality conflicts will not be justification for changing a class. All conflicts need to be resolved in a mature, professional manner. We ask that the student and parent first take the responsibility to meet with the teacher and work through the problem. If a resolution cannot be reached, then the parent or teacher should contact an administrator to meet about the issue. If a class change is granted by the administration, it will be based on space availability and with the least impact to the student’s schedule.

To schedule a meeting with a teacher, counselor, or administrator, please contact the counseling center at 657-6616.

LHS GRADUATION REQUIREMENTS & COLLEGE ADMISSIONS REQUIREMENTS

	L.H.S. Graduation Requirements	Admission Requirements for MU, UMKC, UMSL, MO S&T	Admission Requirements for Missouri public 4 year colleges
Language Arts	4	4	4
Math	3	4 (Algebra I & above) At least Algebra II	3 (Algebra I & above) At least Algebra II
Science	3	3 (1 must be lab)	3 (1 must be lab)
Social Studies	3 (World History, Political Science American History)	3	3
Physical Education	1.5		
Health	.5		
Fine Arts	1	1	1
Practical Arts	1 Includes ½ cr. Personal Finance		
World Language		2	
Electives	9.5		3 additional core electives from core or world language
TOTAL	26.5	17 Plus appropriate class rank and ACT/SAT scores	16 Plus appropriate class rank and ACT/SAT scores

The admission requirements are listed as a guide to help you plan. Please contact the admissions office of the specific college you are planning to attend to check requirements before making final decisions on scheduling.

EARLY GRADUATION

Students wishing to earn a Lebanon High School diploma ahead of their expected time of graduation should attend their last semester at Lebanon High School, Lebanon Technology and Career Center and /or Hillcrest Education Center. They must be approved for early graduation by submitting the required form stating their intent to their counselor by the end of November. The Board of Education will review early graduates at the December board meeting. Early graduates may participate in May Commencement ceremonies.

FLEX PROGRAM ENROLLMENT

1. Only seniors are eligible for a flex block.
2. A senior must have a cumulative attendance of 95%, have completed 21 credits, and have a 2.5 GPA to be eligible for a school flex block.
3. Students may not have more than one flex block (unless approved by administration) and one aide block per semester.
4. Students must provide evidence of employment, college, or technical schooling associated with the student's "career academic plan".
5. Student athletes should consult with the Activities Director on MSHSAA eligibility before applying for a flex block.
6. Seniors are allowed flex blocks only if a parent/guardian and the principal give permission, and if an employer or college notifies the school in writing stating the student will be working.
7. Applications are available in the Counseling Office.

LAUNCH VIRTUAL ACADEMY

The Lebanon R-3 School District has partnered with Launch, a virtual academy that offers students flexible, quality online learning options. Launch courses meet individual student needs and provide fresh options for students that are looking to expand their learning opportunities at the high school level. Students have access to over 60 virtual courses through Launch. Please contact your counselor with questions about personalized course offerings, virtual learning, and enrollment.

OFFICE AIDES

Only seniors are eligible for aide positions. To be an aide a senior must have a minimum GPA of 2.5, 21 completed credits, have a 95% cumulative attendance rate, and record of good citizenship. Aides will be assigned by administrators and placement is permanent until the end of each semester. Applications are available in the Counseling Office.

VALEDICTORIAN/SALUTATORIAN

In order to receive the designation of valedictorian at Lebanon High School, a student must end their senior year of high school with the highest grade point average (GPA) in the class. Students should meet with their counselor early in their high school career if they have set a goal of becoming valedictorian of their class to develop a plan to achieve this goal.

The student with the second highest grade point average in the class will achieve the designation of salutatorian.

ADVANCED PLACEMENT

The Advanced Placement (AP) Program is a nationwide program of college level courses and exams for secondary school students. The program is designed for the highly scholarly and highly motivated student. Over 2,100 colleges receive the AP examination grades and use them as the basis for granting credit and/or placement to entering students whose scores meet their requirements. AP courses are taught on the college level. Lebanon High School offers Advanced Placement courses in the following areas:

- AP Calculus
- AP English Language & Composition
- AP English Literature & Composition
- AP Psychology
- AP Statistics

In addition to the high school credit received for the course, AP students prepare to take the Advanced Placement Examination in May. Almost all colleges and universities in the United States recognize the scores received on AP exams and give credit accordingly. However, students must realize not all colleges follow the same procedures upon receipt of the Advanced Placement Examination grades. Many colleges grant credit and placement automatically for qualifying work on the examinations; some grant either placement or credit only. **BEFORE TAKING AN AP COURSE, THE STUDENT IS ADVISED TO CONTACT THE COLLEGE HE/SHE PLANS TO ATTEND CONCERNING THE STATUS OF AP COURSES AT THAT SCHOOL.** Additional information can be found on the College Board website – www.collegeboard.com/student/testing/ap/about.html.

Students must meet prerequisites determined by the core subject departments in order to enroll in Advanced Placement courses. Students enrolled in AP courses are expected (but not required) to take the AP Exam in the appropriate subject area. There is a fee to take each exam. A fee reduction is available for students who qualify based on family income.

WEIGHTED GRADE PROGRAM

Prior to selection of a weighted course, students should review the course description for prerequisites. The following courses will be weighted at Lebanon High School:

- Advanced United States Gov & Politics
- Advanced US History
- Anatomy & Physiology
- Anatomy & Physiology II
- AP Calculus
- AP English Language & Composition
- AP English Literature & Composition
- AP Psychology
- AP Statistics
- Art and Experience
- Art History I & II
- Biomedical Innovations
- Civil Engineering & Architecture
- College Algebra
- College Environmental & Life Science
- College Physics I
- Computer Numerical Control II
(only 1 of the 3 ½ credits is weighted)
- Culinary Arts II
(only 1 of the 3 ½ credits is weighted)
- Digital Electronics
- Engineering Design & Development
- GOCAPS Business & Entrepreneurship
(only 1 of the 3 ½ credits is weighted)
- GOCAPS Engineering & Manufacturing
(only 1 of the 3 ½ credits is weighted)
- GOCAPS Medicine & Health Care
(only 1 of the 3 ½ credits is weighted)
- GOCAPS Teaching Professions
(only 1 of the 3 ½ credits is weighted)
- Honors Algebra II
- Honors Biology I
- Honors Biology II
- Honors Chemistry I
- Honors English I
- Honors English II
- Honors Geometry
- Honors Political Science
- Honors World History
- Math Analysis/Trigonometry
- Medical Interventions
- Performance Theatre
- Physics II
- Science Research
- Spanish III
- Spanish IV

Weighted grades for students transferring into Lebanon High School will only be given for the courses weighted at LHS.

GPA Calculation for Weighted Courses

A = 5.0	C+ = 3.333	D- = .667
A- = 4.667	C = 3.0	F = 0
B+ = 4.333	C- = 2.667	
B = 4.0	D+ = 1.333	
B- = 3.667	D = 1.0	

DUAL (CONCURRENT) ENROLLMENT

Dual enrollment is defined as high school students taking postsecondary classes and who are physically present on the postsecondary education campus for those classes. This enrollment option is intended to enrich a student's high school education. For dual enrollment course credit to be placed on a LHS transcript, **approval must be obtained prior to enrollment in the course** from the high school counselor and an assistant principal. These credits will only be placed on the high school transcript if they are needed for high school graduation. Upon approval and completion of the course, grades earned are placed on the student's high school transcript and counted toward GPA and class ranking. Application for dual enrollment credits are available in the Counseling Office. Students must provide documentation of college enrollment with their application.

Criteria for dual enrollment are as follows:

- Meet the college/university prerequisites for course
- Enrolled in at least two units of credit per semester at LHS
- Be responsible for course cost and fees

The calculation of the high school GPA will include all dual enrollment credit on the high school transcript. Credit will be granted as follows:

- 4+hour college course = 1 unit of high school credit
- 3 hour college course = $\frac{1}{2}$ unit of high school credit
- 2 hour college course = $\frac{1}{4}$ unit of high school credit

Students are responsible for providing college transcripts to the high school counselor for courses taken on a college campus at the end of each semester. When the college grade is verified, the student may request that the grade be added to the high school transcript. The college credit earned will be converted to high school credit and added to the transcript.

A student who is taking a college course and drops that course may become ineligible for high school athletics and other activities if he/she is no longer enrolled in 80% of total possible credits (3 credits per semester).

Correspondence Courses*

Correspondence courses are defined as a course delivered to students who are not physically present in a traditional setting such as a classroom. Often called "distance learning", these courses are generally delivered through online instruction. Lebanon High School only accepts correspondence courses taken through MU High School.

*Dual and Correspondence courses will be treated as high school courses for scheduling and schedule change purposes.

DUAL CREDIT

Dual credit is defined as students taking courses at Lebanon High School for which they may receive college credit. Courses offered for dual credit stem from agreements between LHS and area universities and community colleges. Students electing to take dual credit will earn college credit and high school credit simultaneously.

Students enrolled in the courses listed below are eligible to receive college credit at the completion of the course. These courses are taught at a college level and students are required to enroll through Drury University, Missouri State University, or Ozarks Technical Community College in order to receive the college credit. The cost of enrollment varies by each university/college and the cost is the financial responsibility of the student. Students are not required to enroll in the college course to receive high school credit. The following courses are offered as dual credit courses at LHS:

LHS/LTCC Course Title	College/University	College Course Title	Course Number	Credits Possible	Expected Cost per Credit Hour
Advanced U.S. History	Drury University	Survey of U.S. History to 1865	HIST 101	3	\$70
Advanced U.S. History	Drury University	Survey of U.S. History Since 1865	HIST 102	3	\$70
American Heritage/Advanced U.S. Government & Politics	Drury University	Government & Politics in the United States	PLSC 101	3	\$70
AP Calculus	Drury University	Calculus I	MTH 231	4	\$70
Art and Experience	OTC	Art & Experience	ART-100	3	\$35
CNC I & II	MSU-WP	Manufacturing Materials & Processes	TEC 111	3	\$66
CNC I & II	MSU-WP	Manufacturing Technology	TEC165	3	\$66
College Algebra	Drury University	College Algebra	MTH 109	3	\$70
College Environmental Science	OTC	Environmental Science	BIO-105	4	\$35
College Life Science	OTC	Life Science	BIO-100	4	\$35
College Physics I	OTC	Introduction to Physics	PHY-107	4	\$35
Computer Science A	MSU-WP	The World of Computer Science	CSC 130	3	\$66
Culinary I	MSU-WP	Safety & Sanitation	HSP 218	3	\$66
Culinary I & II	MSU-WP	Introduction to Hospitality Leadership	HSP 210	3	\$66
Culinary I & II	Missouri State University	Principles of Food Preparation	HSP 321	3	\$70
Teaching Professions II	MSU-WP	Introduction to Teaching	EDU 150	1	\$66
Teaching Professions II	MSU-WP	Teaching Profession with Field Experience	EDU 202	3	\$66
English IV Integrated English	MSU-WP	Business Communications	MGT 286	3	\$66
Business Strategies	MSU-WP	Introduction to Entrepreneurship	EPR110	3	\$66
GoCaps Business & Entrepreneurship	MSU-WP	Introduction to Business	BUS 135	3	\$71
GoCaps Engineering & Manufacturing	MSU-WP	Careers in Engineering & Technology	EGR 100	3	\$71
GoCaps Medicine & Health Care	OTC	Introduction to Health Professions	HSC 110	3	\$35
IED & POE	MSU-WP	Introduction to Engineering Design	EGR 110	4	\$66
Introduction to Public Speaking	OTC	Public Speaking	COM 105	3	\$35
Leadership	Drury University	Introduction to Leadership Development	LDST 101	3	\$70
Leadership	Drury University	Introduction to Global Leadership & Sustainability	LDST 102	3	\$70
Math IV Integrated Math	MSU-WP	Business Mathematics	MGT 130	3	\$66
Animal Science	MSU-WP	Animal Science	AGR 101	4	\$66
Nursery & Landscape Management	MSU-WP	Introduction to Horticulture	AGR 170	3	\$66
Nursery & Landscape Management	MSU-WP	Greenhouse Management	AGR 172	1	\$66
Personal Finance	Missouri State University	Personal Finance	FIN 150	3	\$70

Dual Credit may also be obtained through some Virtual Learning courses. Please see your counselor for more information. Examples include: AP Language & Composition-Drury University, AP Literature & Composition-Drury, AP Psychology-Drury University, AP Language & Composition-LAUNCH/Missouri State University.

Dual credit may also be obtained for PLTW classes. This credit can come from numerous schools and is dependent on such variables as PLTW test scores and GPA. Please see your counselor for more information

ARTICULATION AGREEMENTS

Lebanon Technology and Career Center (LTCC) and Lebanon High School (LHS) offer select courses that may be taken for high school and college credit. Federal government legislation underwrites the cost of the college credit and there is no charge to individual students who successfully complete certain courses or two-year programs and meet the college requirements. LTCC has articulation agreements with Ozarks Technical Community College, and State Technical College. These articulation agreements allow LHS students enrolled in the approved courses to receive free college credits upon successful completion of the course or two-year program. The following is a list of courses and number of possible free credits students may be eligible to receive.*

<u>COURSE NAME</u>	<u>COLLEGE</u>	<u>CREDITS POSSIBLE</u>
Animal Science	Ozarks Technical Community College	3
Automotive Technology (2-yr program)	State Technical College of Missouri (STC test) Ozarks Technical Community College	16 12
Construction Technology (2-yr program)	State Technical College of Missouri (STC test) Ozarks Technical Community College	3 20
Collision Repair (2-yr program)	State Technical College of Missouri (STC test) Ozarks Technical Community College	8 20
Teaching Professions (2-yr program)	Ozarks Technical Community College	12
Machine Tool Technology	State Technical College of Missouri (STC test) Ozarks Technical Community College	6 16
Network Security and Forensics	Ozark Technical Community College	8
Culinary Arts II (ProStart II) (2-yr program)	Ozarks Technical Community College Sullivan University	6
Welding Technology (2-yr program)	State Technical College of Missouri (STC test) Ozarks Technical Community College	3 16

*Articulation agreements are updated each year so this list changes frequently. Please check with your counselor for more information.

MISSOURI STATE HIGH SCHOOL ACTIVITIES ASSOCIATION

MSHSAA requires that any student participating in high school sports or activities meet the following eligibility requirements:

1. Semester prior to participation: The student shall have earned a minimum of 3 units of credit or have earned 80% of the maximum allowable classes in which a student can be enrolled for a semester. For Lebanon High School, that means that a student must have passed six of seven blocks during the previous semester.
2. Semester of participation: The student must be enrolled in and regularly attend classes that offer 3 units of credit or 80% of the maximum allowable credits which may be earned. For Lebanon High School, that means that the student must be enrolled in and attending six of seven blocks for the semester.

Student athletes must consult the Activities Director before applying for a flex block or student aide.

NCAA/NAIA ELIGIBILITY

Students planning to attend college and participate in NCAA Division I or Division II athletics must be certified by the NCAA Initial-Eligibility Clearinghouse. The Clearinghouse will analyze a student's academic information and determine if a student meets NCAA's initial eligibility requirements. Students who qualify are able to practice, compete and receive athletic scholarships as college freshmen. They ensure that students have taken a rigorous college preparatory curriculum while in high school. For more information and to register, please see the NCAA Clearinghouse website at:

www.ncaaclearinghouse.net

You can also track your progress at www.corecoursegpa.com

Use the following codes: School ID: 261890 School code: 729388822

PlayNAIA.org helps future student-athletes discover and connect with NAIA schools, coaches and athletic scholarships. PlayNAIA is also the official clearinghouse for NAIA eligibility. Every student-athlete must register with the NAIA Eligibility Center to play sports at an NAIA college or university. <https://play.mynaia.org/>

If you decide collegiate sports are an interest for you, make sure to let your coach know. **Students have the responsibility to talk to the school counselor and make sure they are meeting class and GPA requirements.** It is best to start these conversations no later than junior year.

[Lebanon High School Athletes' Handbook for College Sports](#)

LEBANON HIGH SCHOOL A+ SCHOOLS PROGRAM

The purpose of the A+ Program is to ensure that:

- All students will graduate from high school.
- All students complete a selection of high school studies that is challenging and for which there are identified learning expectations.
- All students proceed from high school graduation to a college or post-secondary vocational or technical school or high wage employment with workplace skill development opportunities.

The Lebanon High School A+ Schools Program enables students to qualify for state-paid tuition reimbursement to attend any public community college or career/technical school in Missouri. All funding is based upon availability of state funds and can be affected by state budget decisions. By completing the A+ requirements which includes a rigorous program of academic and technical education, you will be prepared for the workplace, post-secondary vocational/technical training or college that will make you more successful in the future workforce.

Student Eligibility

To be eligible for the financial incentive of the A+ Schools Program, a student must be certified as A+ Student by Lebanon High School. The A+ Coordinator has the responsibility to certify whether a graduate of LHS has met the criteria of the program. To qualify for certification, the student must meet the following nine requirements:

Requirements

Requirement 1: Enter into a written agreement prior to graduation and have attended a designated A+ high school for any two (2) years of the 4 years prior to high school graduation. Students must sign a written A+ Agreement and must attend LHS or transfer to LHS from another designated A+ school district before graduation.

Requirement 2: Graduate from high school with a cumulative grade point average of 2.5 or higher on a 4.0 scale. This grade point average will represent the applicant's cumulative GPA which includes the freshman through senior years. A student with a GPA less than 2.50 is not eligible. The weight of weighted grades is NOT used to meet this 2.5.

Requirement 3: Have a 95% cumulative attendance record. The applicant must have a 95% or better average attendance record for the four-year period – freshman through senior years. A student with a 94.99 percent or lower attendance record will not be eligible. Students along with their parents, may appeal the attendance requirement if extenuating circumstances exists that negatively impact the attendance percentage. An official appeals form can be obtained in the LHS A+ office.

Requirement 4: Perform and document 50 hours of unpaid tutoring or mentoring of younger students through a school approved program. The following guidelines should be followed for the completion of this requirement. Should a question concerning this requirement arise, please contact the A+ Coordinator.

- All tutoring and mentoring activities will be designed to involve the A+ applicant with other students in the A+ district. Students may tutor in a K-8 sending school by special arrangement.
- A minimum of 37.5 hours of the required hours must be in direct student tutoring and/or mentoring. Zero hours will be accepted for community service, setting up events or anything else that does not directly involve student tutoring and/or mentoring.
- Tutoring and mentoring will provide, as an ultimate goal, encouragement to students to get more deeply interested in school, stay in school, and strive for good grades.
- Tutoring and mentoring activities will be curriculum-based and under the auspices of the Lebanon R-3 school (not private or public sector programs in which the school has no input into the activity).
- The tutoring and mentoring activities must occur before, after, or during the school day. Students will *not* be allowed to leave the LHS campus during the school day for tutoring/mentoring purposes.
- All tutoring and mentoring must be supervised and verified by a teacher, principal, counselor, or the A+ coordinator.
- The required 50 hours of tutoring must be completed prior to graduation to be considered for A+ status. Students are responsible for maintaining copies of their tutoring logs and turning them into the A+ office.

Requirement 5: Maintain a record of good citizenship and avoidance of the unlawful use of drugs (including alcohol). Participating in the A+ Program is an honor and unique privilege for LHS students. Students pursuing the A+ incentives must maintain a record of good citizenship and avoid the unlawful use of drugs/alcohol. Certification of good citizenship will be based on official discipline records maintained by the high school. Students who are denied A+ certification based upon citizenship will be able to appeal the decision to the A+ Appeals Committee.

Requirement 6: Make a good faith effort to secure federal post-secondary student financial assistance funds. During the applicant’s senior year, he/she will be required to complete an application for securing federal post-secondary financial assistance (FAFSA). The student must file the FAFSA form by April 1 to be considered a good faith effort to secure federal post-secondary financial assistance funds.

Requirement 7: Register for the Selective Service by the age of 18 (males only).

Requirement 8: Algebra I EOC - Qualifiers must achieve a score of *Proficient* or *Advanced* on the Algebra I End of Course exam. EOC retakes will be allowed, if necessary, by the state for those seeking A+ qualification.

If you meet all of the eligibility requirements except the end of course exam requirement, You may establish eligibility by achieving a qualifying score on the mathematics component of the ACT test and the corresponding GPA. You may achieve the qualifying score as a high school or postsecondary student. If you achieve the score as a postsecondary student you may be eligible for an award in the same term that you take the test. The MDHE will announce the qualifying ACT scores annually.

High school seniors who do not achieve a score of proficient or advanced on the Algebra I, or a higher level math, EOC must achieve one of the following standardized test scores or have a combined ACT math score and high school GPA in accordance with the following scale.

ACT Math/High School GPA Scale

ACT Math Score		High School GPA
17	and	2.5 or greater
16	and	2.8 or greater
15	and	3.0 or greater

Requirement 9: Deadlines

- Deadline for seniors to enroll is **April 15th** of their senior year.
- Deadline for seniors to turn in all material to meet requirements is the seniors last day of school.
- Deadline to be recognized in the graduation ceremony handout is the last day of school one week before graduation.

BENEFITS OF AN ACADEMY AND CAREER PATHWAY

An academy can assist you in exploring your interests and preparing for your future. The intent is not for you to decide on a specific occupation for the rest of your life, but to select an academy into which you can begin designing a plan of action to secure your future career. Identifying an academy can help you in selecting school courses, activities, and part-time employment. It can also help guide your participation in job shadowing, career exploration and internships.

An academy and career pathway choice is not a permanent commitment. As you have new experiences, you learn new things about yourself and may decide to change your academy and career pathway. If you decide on a different academy and career pathway to explore, you should discuss it with your counselor and adjust your future courses deciding on classes in accordance with your new career exploration. To assist you in development of courses to take while in high school, the Practical Arts courses are aligned by Academies and then grouped by their corresponding Career Pathway. Our hope is this will guide you as you in a sequence of courses for your 4, 6, or 8 year plan and for your future upon graduation, whether that be post-secondary educational opportunities or the workplace.

CHOOSING A CAREER PATHWAY

Identify your interests, abilities, and talents.

1. Review the possible academies and career pathways listed below in relationship to your interests, abilities, and talents.
2. Decide which academy and career pathway seems to best reflect the above.
3. Select courses that are related to the academy and career pathway you have chosen.
4. If undecided regarding an academy and career pathway, see your counselor for guidance.

Use the following page to assist you while completing your individualized career academic plan.

FIND YOUR FUTURE IN Career Paths & Career Clusters

WWW.MISSOURICONNECTIONS.ORG

**Science, Technology,
Engineering and Mathematics**
Engineering and Technology
Science and Math

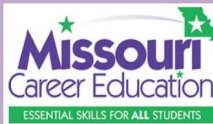
Architecture and Construction
Design and Pre-Construction
Construction
Maintenance and Operations

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

Health Services
Health Path

**Arts &
Communication**
Creative Path

**Arts, A/V Technology
and Communications**
Audio and Video Technology and Film
Printing Technology
Visual Arts
Performing Arts
Journalism and Broadcasting
Telecommunications



Department of Elementary and Secondary Education
Division of Career Education
P.O. Box 400
Jefferson City, MO 65102-0400
(973) 751-2460

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

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

**Industrial &
Engineering
Technology**
Building &
Fixing Path

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

**Business,
Management &
Technology**
Business Path

Information Technology
Network Systems
Information Support and Services
Interactive Media
Programming and Software Development

Marketing, Sales and Service
Management and Entrepreneurship
Professional Sales and Marketing
Buying and Merchandising
Marketing Communications
and Promotion
Marketing Information Management
and Research
Distribution and Logistics
E-Marketing

Finance
Financial and
Investment Planning
Business Financial
Management
Banking and Related Services
Insurance Services

**Business, Management
and Administration**
Management
Business Financial Management
and Accounting
Human Resources
Business Analysis
Marketing and Communications
Administrative and Information
Support

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

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

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

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

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

Human Services
Helping Path

**Natural Resources
Agriculture**
Nature Path

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



DESE 5390-3.407

LHS COURSES AND PREREQUISITES

(FINAL COURSE OFFERINGS ARE DEPENDENT ON ENROLLMENT AND STAFF)

COURSE	PREREQUISITES	CREDITS	GRADE
Freshman Focus		½	9
Sophomore Seminar		½	10
Leadership (Dual Credit-Drury)	Teacher approval	1	10,11,12
ACT Prep		½	11,12
Introduction To Public Speaking (Public Speaking 105 OTC)		½	11,12
Publications	C or better in English II or faculty permission and successful completion of the application process	1	11,12
A+ Tutoring		½	12
Jacket Writing Center Fellowship	Application, 3 yrs of English, teacher recommendation	1	12
ENGLISH LANGUAGE ARTS			
English I		1	9
Honors English I	Teacher recommendation	1	9
English II	English I	1	10
Honors English II	Teacher permission	1	10
English III	English II	1	11
AP Language & Composition	Teacher permission	1	11,12
English IV	English III	1	12
AP English Literature & Composition	B in English III or Teacher permission	1	12
English IV-Integrated (MGT 286 Business Communications MSU/WP))	Enrolled in LTCC	¼	11,12
English IV Contemporary Literature	English III	½	12
English IV Literary Adaptations (Film & Fiction)	English III	½	12
English IV Shakespeare	English III	½	12
English IV The Works of J.R.R. Tolkien	English III	½	12
English IV Creative Writing:	English III, AP Language, or AP Literature	½	12
English IV Historical Fiction	English III	½	12
English IV Mythology & Folklore	English III	½	12
English IV British Literature	English III	½	12
WORLD LANGUAGE			
Spanish I		1	9,10,11,12
Spanish II	C In Spanish I	1	10,11,12
Spanish III	C in Spanish II	1	11,12
Spanish IV	C in Spanish III	1	12

SOCIAL STUDIES			
World History		1	9
Honors World History	8 th grade GPA of at least 3.0 and a B in history classes	1	9
National History Day		1	9,10,11,12
Political Science		1	10
Honors Political Science	3.0 GPA (unweighted) & at least a B both semesters of 9th Grade World History or at least a B- both semesters of 9th Grade Honors World History	1	10
American History		1	11
Advanced U.S. History (Survey of United States History I HIST 101 and Survey of United States History II HIST 102, Drury University)	3.0 GPA (unweighted) & at least a B or better in Political Science, B- or better in Honors Political Science.	1	11
Geography		½	10,11,12
Ozark Studies		½	11,12
Contemporary Issues		½	11,12
The History of Rome		½	11,12
American Military History		½	11,12
AP Psychology (Drury University PSYC 120. Virtual Learning)	3.0 GPA (unweighted)	1	11,12
Sociology		½	11,12
Advanced U.S. Government & Politics Heritage) (PLSC 101 Drury)	3.0 GPA (unweighted) & at least a B- both semesters of Advanced United States History	1	12
MATHEMATICS			
Intermediate Algebra A	Teacher referral	1	9,10
Intermediate Algebra B	Intermediate Algebra A or teacher referral	1	10,11
Algebra I		1	9,10,11,12
Intermediate Geometry	Intermediate Algebra B or teacher referral from Algebra I	1	10,11
Geometry	C in Algebra I or teacher referral	1	9,10,11,12
Honors Geometry	B+ in Algebra I & teacher recommendation.	1	9,10
Intermediate Algebra II	Intermediate Geometry or teacher referral from Geometry.	1	11,12
Algebra II	C in Algebra I & Geometry or teacher referral	1	10,11,12
Honors Algebra II	B+ or better in Algebra I & Geometry & teacher recommendation.	1	10,11
Intermediate College Algebra	College-bound juniors & seniors who received a C or D in Algebra II	1	11,12
College Algebra (MTH 109 Drury University)	B or better in both Algebra I & II or B or better in Intermediate College Algebra	1	11,12

Math Analysis/Trigonometry	B- or better in Algebra II	1	11,12
AP Statistics	Grade of B or better in both semesters of Algebra II	1	11,12
AP Calculus (Math 231 Drury University)	Math Analysis & teacher recommendation	1	12
Math IV Integrated (MGT 130 Business Mathematics MSU/WP))	Enrolled in LTCC	¼	11,12
SCIENCE			
STEMs of Science		1	9
Biology I	Physical Science	1	10
Honors Biology	B 9 th H Physical Science or A-Physical Science with teachers permission	1	10
Chemistry I	B or above in Algebra I. Must have signatures from both your current science & math teachers	1	10,11,12
Honors Chemistry I	B or above in Algebra I. Must have signatures from both your current science & math teachers	1	10,11,12
Earth Science	Physical Science & Biology I	1	11,12
Project Based Physics		1	11,12
Honors Biology II	B in Biology I or a C in Honors Biology (students not meeting this prerequisite must have approval from the Biology II teacher)	1	11,12
Biology II	D+ or better in Biology I	1	11,12
College Physics I (Phy 105-OTC)	Math courses with a C average. Passed Algebra II or currently enrolled; must have signatures from both your current science & math teachers, minimum 3.0 GPA for dual credit or permission of instructor. Meeting with the parent to enroll	1	11,12
Anatomy & Physiology	B+ average in Biology I (students not meeting this prerequisite must have approval from the Anatomy & Physiology teacher)	1	11,12
Anatomy & Physiology II	B+ average in Anatomy & Physiology I and/or PLTW-Human Body Systems (students not meeting this prerequisite must have approval from the Anatomy & Physiology teacher)	1	12
Physics II	Passed Physics I	1	12
College Environmental & Life Science (Bio 100-OTC) (Bio 105-OTC)	Physical Science, Biology I, & another science elective (Chemistry I recommended) with a B or greater. Any student receiving a C or less on any prerequisite course, OR a Junior wishing to enroll, must have approval from the course instructor & their current science instructor. Minimum 3.0 GPA for dual credit is required.	1	12

Science Research	Application process required, Science Research instructor must sign enrollment form	1	11,12
FINE ARTS			
Introduction to Theatre		1	9,10,11,12
Speech & Debate		1	9,10,11,12
Advanced Speech & Debate	Speech & Debate	1	10,11,12
Stage Make-up Design & Costume Construction		½	10,11,12
Technical Theatre		1	10,11,12
Performance Theatre	Instructor approval	1	11,12
Film Studies		½	11,12
Art Foundations		½	9,10,11,12
Drawing I	Arts Foundation	½	9,10,11,12
Ceramics I	C average in Arts Foundation	½	9,10,11,12
Painting I	C average in Arts Foundation	½	9,10,11,12
Art II	Ceramics I, Drawing I, or Painting I w/B average or teacher approval	1	10,11,12
Art & Experience	GPA 2.5	½	12
Video/Photography	Art Foundation, Teacher Permission	1	11,12
Advanced Art Studies	B in past art classes. Teacher Permission	1	11,12
Advanced Ceramics	B in Art II, Teacher Permission	1	11,12
Adobe Photoshop	Art Foundations	½	10
Art History I	GPA 3.0	½	11,12
Art History II	GPA 3.0	½	11,12
Photojournalism	B in Video/Photography or Teacher permission	1	11,12
Band	Instructor approval	1	9,10,11,12
Group Piano Class		1	9,10,11,12
Chamber Choir	Audition	1	10,11,12
Concert Choir	Audition	1	10,11,12
Yellowjacket Singers		1	9,10,11,12
Treble Choir		1	9,10,11,12
Popular Music in America		½	10,11,12
Music Theory	Instructor approval	1	11,12
PHYSICAL EDUCATION			
Health/Physical Education		1	9
Health/Personal Fitness		1	9
Health/Weights	B or better in 8th grade PE	1	9
Boys Health/Advanced Weights	Sports & Dept. Head Approval	1	9
Girls Health/Advanced Weights	Sports & Dept. Head Approval	1	9
Physical Education		1	10,11,12

Personal Fitness		1	10,11,12
Weights		1	10,11,12
Advanced Physical Education	A or B in PE Dept. Head Approval	1	11,12
Boys Advanced Weights	Varsity Sports Dept. Head approval	1	10,11,12
Girls Advanced Weights	Varsity Sports Dept. Head approval	1	10,11,12
Fitness Movement		1	10,11,12
Cross Training	A or B in any previous PE	1	10,11,12
PRACTICAL ARTS			
GOCAPS			
Engineering & Manufacturing		3 ½	11,12
Medicine & Health Care		3 ½	11,12
Business & Entrepreneurship		3 ½	11,12
Teaching Professions		3 ½	11,12
Business Management & Technology			
Business Communications		½	10,11,12
Accounting I		1	11,12
Personal Finance (FIN 150 MSU)		½	11,12
Leadership in Business/Wealth		1	9
Entrepreneurial Exploration	Application & Interview Required – Teacher Approval	1	9
Entrepreneurial Management I	Entrepreneurial Exploration is recommended. Application & Interview Required – Teacher Approval	3 ½	11,12
Entrepreneurial Management II	Completion of Entrepreneurial Management I with a grade no lower than C. Application & Interview Required – Teacher Approval	3 ½	12
Supervised Business Program	Three (3) Courses in the Business program must be completed prior to requesting enrollment, Interview	1	11,12
Computer Applications		½	9,10,11,12
Sports & Entertainment Management	Computer Applications	1	11,12
Computer Repair (CR I)	LTCC Application	2	11
Network Security & Forensics (CR II)	Computer Repair	2	12
Exploring Technology	Instructor Approval Only	1	12
PLTW Computer Science Essentials		1	9,10,11,12
PLTW Computer Science Principles		1	9,10,11,12
PLTW Computer Science A (CSC 130)		1	9,10,11,12
PLTW Cybersecurity		1	9,10,11,12
Health Science			

PLTW Principles of Biomedical Science (PBS)		1	9, 10 w/Instr App
PLTW Human Body Systems (HBS)	Passing grade in PBS	1	10,11
PLTW Medical Interventions (MI)	Passing grade in HBS and PBS	1	11,12
PLTW Biomedical Innovations (BI)	Completion of Principles of Biomedical Sciences (PBS), Human Body Systems (HBS) & Medical Interventions (MI) or completion of PBS & HBS & concurrent enrollment in MI	1	12
Human Services			
International Foods	Passed Intro to Foods. Instructor approval.	½	9,10
Introduction to Foods		½	9,10
Nutrition & Wellness	Passed Intro to Foods. Instructor approval.	½	9,10
Culinary Arts I (ProStart I) (HRA 210 MSU/WP) (HRA 218 MSU/WP)	LTCC Application, Nutrition & Wellness/Cultural Foods Recommended	3 ½	11,12
Culinary Arts II (ProStart II) (HRA 321 MSU)	LTCC Application, Culinary Arts I (ProStart I)	3 ½	12
Child Development I		½	9,10,11,12
Child Development II	Passed Child Development I	½	9,10,11,12
Child Development III/Intro To Careers In Child Development	Passing grade in Child Development II	1	10,11,12
Interpersonal Relationships		½	9,10,11,12
Family & Individual Health		½	9,10,11,12
Family/Consumer Resource Management		½	9,10,11,12
Human Development		½	9,10,11,12
Fashion & Interior Design Fundamentals		1	9,10,11,12
Fashion Design Construction	Fashion & Interior Design Fundamentals	½	10,11,12
Interior Design Advanced	Fashion & Interior Design Fundamentals	½	10,11,12
Industrial Engineering & Technology			
Exploring Trades		½	10
Construction Technology I	LTCC Application	3 ½	11,12
Construction Technology II	LTCC Application & Construction Technology I	3 ½	12
Introduction to Machine Technology		1	9,10
Computer Aided Drafting for Machining (CAD) (TEC 111 MSU/WP)	LTCC Application	1	10,11,12
Computer Aided Manufacturing (CAM) (TEC 165 MSU/WP)	Successful completion of CAD for Machining	1	11,12

Computer Numerical Control I (CNC I) (TEC 165 MSU/WP)	LTCC application/approval	2	10,11,12
Computer Numerical Control II (CNC II) (TEC 111 MSU/WP)	Successful completion of (CNC I) Computer Numerical Control I & LTCC application/approval	2	11,12
Welding Technology I	LTCC Application	3 ½	11,12
Welding Technology II	LTCC Application & Welding I	3 ½	12
Robotics		½	9,10
PLTW Introduction to Engineering Design (IED)	Passing grade in Algebra I, or concurrent enrollment.	1	9,10,11,12
PLTW Principles of Engineering (POE) (EGR 110 MSU/WP)	Instructor Approval, Passing grade in IED	1	10,11,12
PLTW Digital Electronics (DE)	Instructor Approval, Passing grades in IED & POE	1	11,12
PLTW Civil Engineering & Architecture (CEA)	Instructor Approval, Passing grades in IED & POE	1	11,12
PLTW Engineering Design & Development (EDD)	Passing grades in IED, POE, CEA, Instructor Approval	1	12
Automotive Technology I	LTCC Application	3 ½	11,12
Automotive Technology II	LTCC Application & Automotive Technology I	3 ½	12
Collision Repair I	LTCC Application	3 ½	11,12
Collision Repair II	LTCC Application & Collision Repair I	3 ½	12
Natural Resources & Agriculture			
Agricultural Science		1	9,10,11
Animal Science (AGR 101 MSU-WP)	Passing grade Agriculture Science	1	10,11
Advanced Livestock	Passing grades in Animal Science & Agriculture Science	1	11,12
Agricultural Mechanical System	Passing grade Agriculture Science	1	10,11
Agricultural Construction I	Passing grades in AG Science & AG Mechanical System or instructor permission	1	11,12
Agricultural Construction II	Passing grades in AG Science, AG Mechanics & AG Construction I or instructor permission	1	12
Conservation Natural Resources	Passing grade Agriculture Science	1	10,11,12
Nursery & Landscape Management (AGR 170 & AGR 172 MSU-WP)	Passing grade Agriculture Science	1	10,11,12
Agricultural Business & Economics	Animal Science, Ag Mechanical Systems, Conservation & N/R, or Nursery & Landscape	1	11,12
Supervised Agricultural Cooperative Education Program	3 Courses in Agriculture Education must be completed prior to requesting enrollment, Interview	1	11,12

ENGLISH

FOUR credits of English are required.

9th	10th	11th	12th
Honors English I	Honors English II	AP Language & Composition	AP Literature & Composition
English I	English II	English III	AP Language & Composition
			English IV
			English IV Contemporary Literature
			English IV Literary Adaptations
			English IV Shakespeare
			English IV J.R.R. Tolkien
			English IV Creative Writing
			English IV Historical Fiction
			English IV Mythology & Folklore
			English IV British Literature

SOCIAL STUDIES

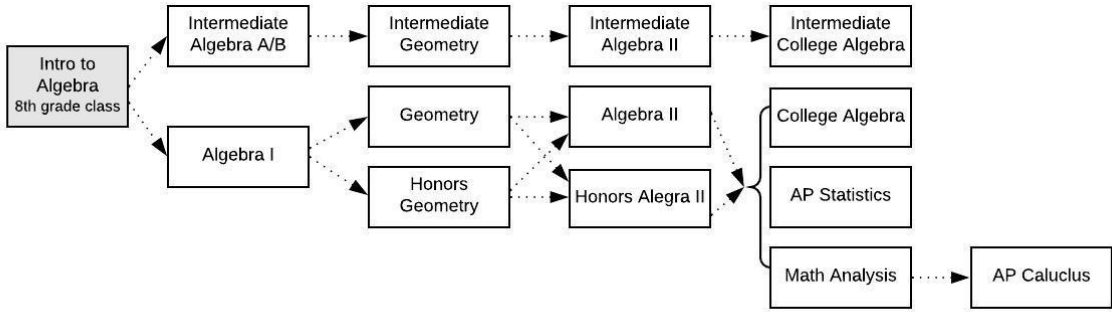
THREE credits of Social Studies are required.

Students must complete World History (or Honors World History), Political Science (or Honors Political Science, American History (or Advanced U.S. History).

9th	10th	11th	12th
Honors World History	Honors Political Science	Advanced U.S. History	
World History	Political Science	American History	
[Electives]			
National History Day	National History Day	National History Day	National History Day
	Geography	Geography	Geography
		Ozark Studies	Ozark Studies
		Contemporary Issues	Contemporary Issues
		The History of Rome	The History of Rome
		American Military History	American Military History
		AP Psychology	AP Psychology
		Sociology	Sociology
			Advanced U.S. Government and Politics

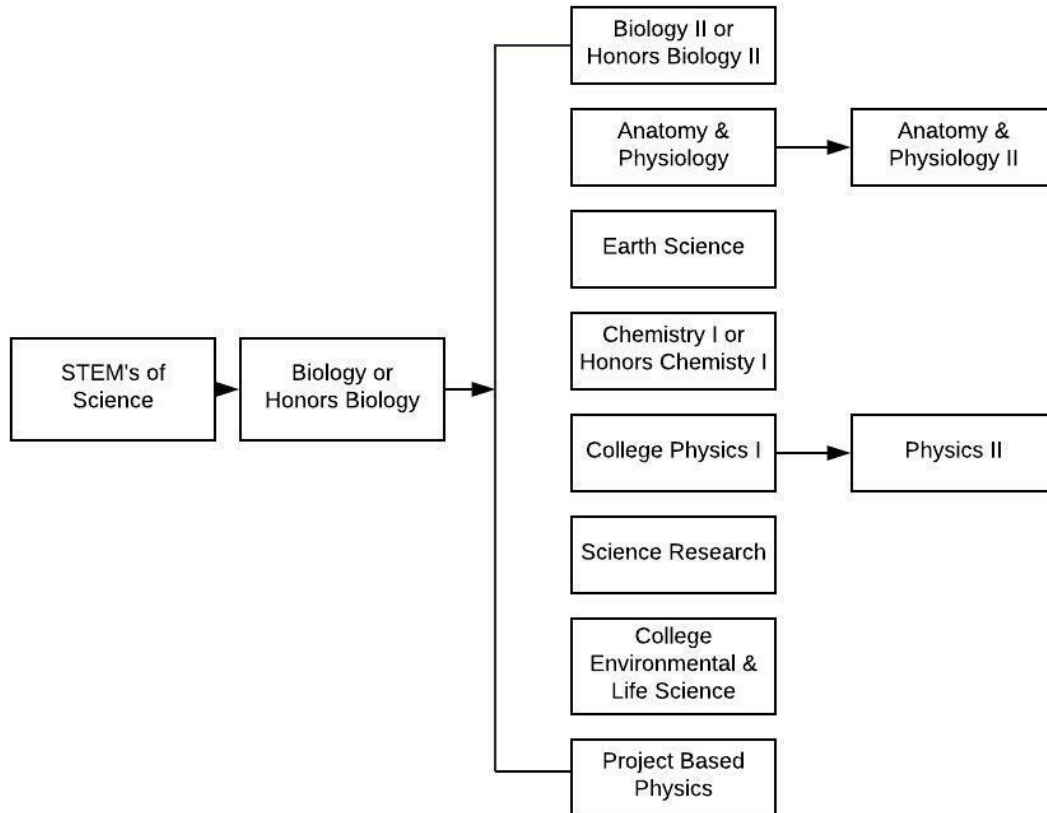
MATH

THREE credits of Math are required.



SCIENCE

THREE credits of Science are required.



COURSE DESCRIPTIONS

FRESHMAN FOCUS (H8075)

GRADE 9

½ CREDIT

Freshman Focus is a course taken by all freshmen to prepare them for their high school experience. In this class, students will learn important skills that will help them on their journey at Lebanon High School. This is a pass/fail course.

SOPHOMORE SEMINAR (H8076)

GRADE 10

½ CREDIT

In this course, the student will engage in college and career exploration through a rotation of experiential learning activities. The Sophomore Seminar builds upon the Freshman Focus. The successful student will leave this course focused on life after graduation and with a plan to discover and pursue their future. This is a pass/fail course.

LEADERSHIP (Dual Credit) (H8025)

GRADE 10, 11, 12

1 CREDIT

Prerequisites: Satisfy A+ attendance and GPA requirement, Instructor approval

This course is sponsored by the Missouri Association of Student Councils and is offered to students who are interested in further developing their leadership skills. This is a required course for LHS Student Council Executive offices (President, Vice President, and Secretary). Student learning will center on these five core principles: character, integrity, service, scholarship and citizenship, the student will learn about effective motivation, goal setting, time management, problem solving, group dynamics, team building, communication, stress management and leadership styles. Students will develop a clear understanding about the fundamental concepts of the differences of people and how they work together. Students will design and implement projects to improve school spirit, pride, and community involvement. The students in this class will perform 20 hours of community service during the school year. Students must meet the A+ requirement of 95% cumulative attendance, and 2.5 minimum GPA to apply and remain in the course, and instructor approval. Students may also receive 3 hours of college credit by participating in the Drury University dual credit program.

ACT PREP (H8041)

GRADE 11, 12

½ CREDIT

The purpose of ACT Prep at Lebanon High School is to assist college-bound juniors and seniors for the ACT examination. The course will provide an overview of the test including all five areas of the test: English, math, reading, science, and writing, practical and proven test taking strategies: content-specific review and ample opportunities for students to complete simulated ACT examinations. Each student will receive an ACT Prep Guide and access to online resources. Students will earn a grade of pass/fail depending upon the grading criteria established by ACT coaches. Student may earn ½ unit of elective credit upon the successful completion of this course.

INTRODUCTION TO PUBLIC SPEAKING (Dual Credit) (H1147)

GRADE 11, 12

½ CREDIT

A public speaking course designed to develop self-confidence through several types of speaking situations: formal, informal, and impromptu. Students learn how to analyze an audience and how to prepare an effective presentation through research and use of visual aids. In addition, students learn to develop listening skills and a greater command of the English language and each student will be responsible for delivering a minimum of 5 individual speeches covering a broad range of speech types, including informative, persuasive, and instructional. Constructive evaluation and videotaping of student speeches will lead to self-improvement. This course may be taken for dual credit through Ozarks Technical Community College. Students will be responsible for the dual credit fee as well as purchasing the digital textbook. This text will be used for all of our readings as well as quizzes and exams.

PUBLICATIONS (H8028)**GRADE 11, 12****1 CREDIT**

Prerequisite: C or better in English II or faculty permission and successful completion of the application process.

Publications is a course designed for students interested in design through imagery and storytelling while also documenting LHS's history and current events. This class provides an opportunity for developing teamwork, meeting deadlines, and creative work. Throughout the course of the school year students will participate in publishing yearbook spreads, selling yearbooks and senior/business ads, and attending on-campus and off-campus activities before, during, and after the school day. As a result, most students are required to attend some extracurricular activities to complete assignments.

This course is deadline intensive: students are expected to work independently in class and outside of class. Layout and design, photography, and writing as they apply to compiling a school yearbook are taught. Trustworthiness, initiative, diligence, and dependability on the part of the students are of the utmost importance.

The goal of this class is to record the year through powerful images and stories. During the first month of school, page assignments, deadlines, and events will be planned/confirmed.

A+ TUTORING (H9003)**GRADE 12****½ CREDIT**

This course provides training and tutoring opportunities for A+ students. Prior to being assigned and released to classrooms to assist other students, tutors will discuss and learn skills that will help them as they complete the class including professionalism, appropriate attire, privacy issues, responsibilities, and dependability. Following training, placement is made by A+ Coordinator. Tutors are expected to earn 50 hours of supervised and documented tutoring in addition to required coursework. To enroll in this class, students **MUST** receive A+ Coordinator approval and meet A+ requirements (2.5 GPA, 95% attendance, and good citizenship). This is a pass/fail non-repeatable course.

JACKET WRITING CENTER FELLOWSHIP (H8026)**GRADE 12****1 CREDIT**

Prerequisites: Successful completion of three years of high school English, application, and teacher recommendation

The Jacket Writing Center Fellowship is a Senior-level elective that will train Literacy Fellows to better serve the Yellowjacket community of readers and writers. Literacy Fellows staff-in-training will engage in an in-depth study of reading and writing across all subject areas and work collaboratively to develop methods and strategies associated with peer tutoring in a writing center. Literacy Fellows should have a strong command of written English, positive interpersonal skills, and a desire to help others succeed. Additionally, Lit Fellows will serve as the Reader's Advisory Board for the Nellie. As part of the RA Board, Lit Fellows will read a wide variety of materials available in the Nellie and be able to recommend them to their peers. The RA Board will also help develop fun, exciting programming for the entire Yellowjacket community of readers.

ENGLISH LANGUAGE ARTS

ENGLISH I (H1011)**GRADE 9****1 CREDIT**

English I will emphasize the application of skills and strategies to comprehend, interpret, and analyze fiction and nonfiction works that are needed for both college and career. Key literature includes *And Then There Were None*, *Romeo and Juliet*, book club novels, and choice novels. Students will develop their vocabulary through the text. Students will gain an understanding of the research process and complete research projects. Students will learn to write effectively using a variety of forms and types of compositions. Through those assignments students will apply a writing process that includes all stages of writing (prewriting, writing, and rewriting) and refine their use and understanding of Standard English conventions such as spelling, mechanics, and usage. Furthermore, students will develop effective speaking and listening skills through presentations and discussions as well as technology skills through the use of Chromebooks. This course will engage students in higher levels of learning and thinking, and will prepare students for English at the next grade level. This course will also focus on preparing students for the English II End-of-Course exam.

HONORS ENGLISH I (H1021)

GRADE 9

1 CREDIT

Recommendations: Although this class can be open to anyone who desires a challenge, students are advised to enroll in regular English if they received a grade of lower than a “B” in the 8th grade English course. This class serves as a college preparatory class and provides the foundation for the college level Junior and Senior AP classes. Students must be willing to commit to the time and effort required by this course. An ideal Honors English I student reads often, enjoys writing, and is dedicated to rigorously improving those skills with a commitment to excellence.

The Honors English I class is accelerated and will require more in-depth and independent work than the regular level class. The structure of this class is grounded in Reading and Writing Workshop to guide students in a variety of reading experiences (whole class, book club, and independent choice novels) while also providing students consistent opportunities to practice their writing craft in a variety of formats (narrative, argumentative, expository, blended, and others as appropriate). Students will read novels, short stories, poetry, and essays while applying skills and strategies to comprehend, interpret, and analyze fiction and nonfiction works. Effective listening and speaking skills will be developed through presentations, discussions, and conferences with both peers and the teacher. Students will learn to write effectively using a variety of forms and types of compositions, applying a writing process that includes all stages of writing (prewriting, writing, conferencing, and rewriting), and will refine their use and understanding of Standard English conventions such as grammar, spelling, mechanics, and usage. Students are expected to conduct research, to compile notes, to establish their own point of view, and to be interested in exploring parallels between literature, their own lives, and the world. This course will engage students in higher levels of learning and thinking and will prepare them for Honors English II and for the English II End-of-Course exam.

ENGLISH II (H1041)

GRADE 10

1 CREDIT

English II is designed to improve the skills necessary for college and career reading and writing. The structure of this class is grounded in Reading and Writing Workshop to guide students in a variety of reading experiences (whole class, book club, and independent choice novels) while also providing students consistent opportunities to practice their writing craft in a variety of formats (narrative, argumentative, expository, blended, and others as appropriate). The class will focus on the reading and writing processes that will develop an effective writer. Students will practice the combination of content and craft in writing. Students will apply a writing process that includes all stages of writing (prewriting, writing, rewriting, and editing) and peer and teacher conferencing. To improve both editing skills as well as ACT scores, the course will include lessons in grammar, usage, punctuation, and other mechanical concerns of writing.

HONORS ENGLISH II (H1051)

GRADE 10

1 CREDIT

Recommendations: Although this class can be open to anyone who desires a challenge, students will be advised to enroll in English II if their English teacher has advised them as such. This class serves as a college preparatory class and provides the foundation for the college level Junior and Senior AP Honors classes. Students must be willing to make a commitment to the time and effort required by this course.

Students continue to develop skills in reading and writing, building upon and adding to the skills acquired in Honors English I. English II is designed to improve the skills necessary for college and career reading and writing. The structure of this class is grounded in Reading and Writing Workshop to guide students in a variety of reading experiences (whole class, book club, and independent choice novels) while also providing students consistent opportunities to practice their writing craft in a variety of formats (narrative, argumentative, expository, blended, and others as appropriate). The class will focus on the reading and writing processes that will develop an effective writer. Students will practice the combination of content and craft in writing. Students will apply a writing process that includes all stages of writing (prewriting, writing, rewriting, and editing) and peer and teacher conferencing. **This class is accelerated and requires more in-depth thinking and independent study compared to regular level courses. Because this class is reading and writing intensive, students should have above average skills in these areas. Students should also have the desire, dedication, and discipline to achieve; they**

must be prompt and be able to work independently inside and outside of class. *One major component of this course is the required summer reading.*

ENGLISH III (H1071)

GRADE 11

1 CREDIT

English III is designed to improve the skills necessary for college and career reading and writing. This class is focused on the study of the contributions of the most distinguished American Literature to the present. The structure of this class is grounded in Reading and Writing Workshop to guide students in a variety of reading experiences (whole class, book club, and independent choice novels) while also providing students consistent opportunities to practice their writing craft in a variety of formats (narrative, argumentative, expository, blended, and others as appropriate). The class will focus on the reading and writing processes that will develop an effective writer.

AP LANGUAGE AND COMPOSITION (H1087)

GRADE 11, 12

1 CREDIT

AP Language will introduce students to college-level writing, in both formal and informal settings. It will also help students understand how the writing process can be applied to other college courses and the thinking world. A portion of this class will focus on reading and discussion. We will read articles that provide advice on writing, essays that stimulate thinking, and contemporary nonfiction that explores issues and concerns facing our world today.

As stated by the College Board, AP Language is designed to help students become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and to become skilled writers who can compose for a variety of purposes. More precisely, students need to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers. Students will study the rhetorical elements that all writers must address in order to write effectively. They will use these elements to analyze a variety of nonfiction texts. Students will discover their own process of composing expository, analytical and argumentative essays. Although some emphasis will be placed on grammatical conventions, the course expects students to demonstrate understanding and mastery of standard written English as well as stylistic maturity in their writing.

◆AP LANGUAGE AND COMPOSITION-Virtual Learning (Dual Credit)

This course may be taken for dual credit through Drury University ENGL 150 & ENGL 270, LAUNCH/Missouri State University ENGL 110 & ENGL 210.

ENGLISH IV (H1125)

GRADE 12

1 CREDIT

The central purpose of English IV is to cultivate the critical thinking, reading, writing, and oral skills required for students to be college and career ready. English IV integrates all the language arts skills gained throughout the student's education. The curriculum encourages students to become more reflective and to further develop their collaborative and independent study skills. Through this course students' literacy skills are developed through daily reading, writing, and reflection. Students will compose documents in a variety of modes, including expository and research writing. Students will also be expected to interact with technology in order to complete daily assignments, create multimedia presentations, and engage in career networking.

AP ENGLISH LITERATURE AND COMPOSITION (H1131)

GRADE 12

1 CREDIT

Recommendations: Although this class can be open to anyone who desires a challenge, students will be advised to enroll in regular English if they receive a grade of lower than a "B" in their English III course. Students must obtain permission from their English III teacher to enroll in this course. Students must be willing to make a commitment to the time and effort required by this course. *In addition, summer reading is a requirement.*

The AP English Literature and Composition course is an advanced literature course which engages students in the careful reading and critical analysis of imaginative literature. This course is designed to prepare students for the AP exam in English Literature and Composition and also fulfills curriculum standards set by LHS and the grade-level expectations of the state. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they

read, students consider a work's structure, style, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. The course includes intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit. Ultimately, the AP course depends on the development of interpretive skills as students learn to write and read with increasing complexity and sophistication.

◆ **AP ENGLISH LITERATURE AND COMPOSITION-Virtual Learning (Dual Credit)**

This course may be taken for dual credit through Drury University ENGL 200 & ENGL 202, LAUNCH/Missouri State University ENG 200.

ENGLISH IV INTEGRATED (Dual Credit)

GRADE 11, 12

¼ CREDIT PER SEM.

Prerequisite: Must be enrolled in appropriate LTCC class

Only students who are enrolled in certain programs at Lebanon Technology and Career Center are eligible. This course is integrated in specific LTCC classes during the student's Junior & Senior year. This competency-based course is taught in a collaborative environment with an English teacher and an LTCC instructor. Students must obtain an 75% (2.0 GPA Scale) per semester or better in order to earn this credit. Dual credit is an option through MSU/West Plains for MGT 286.

This course covers instruction in methods of effective written and oral communications, vocabulary development, college and career readiness, and media technology. Students will compose documents in a variety of modes. Competencies must be documented through a portfolio assessment and include:

- Read informational texts; applying vocabulary into the reading process deciphering and developing decoding strategies to problem solve unknown words.
- Comprehend, compare, and interpret texts of technical manuals and journals articles to reflect, analyze, and synthesize information.
- Compose a well-developed text using Standard English conventions.
- Apply writing processes and disciplines in various forms, including written, computer, and methods related to the workplace.
- Summarize large amounts of information clearly providing supporting details.
- Develop effective listening skills and strategies by using active listening behaviors.
- Create concise presentations on a variety of topics and present using a multitude of media avenues to communicate with a variety of audiences.

ENGLISH IV CONTEMPORARY LITERATURE (H1121)

GRADE 12

½ CREDIT

This literature course focuses on analytical and critical reading, writing, and thought. Students will read a variety of genres of literature (novels, plays, short stories, and poetry) from around the world from the modern and contemporary literary periods. In reading these works, students will build upon the basic literacy skills of identifying setting, plot, and conflict by mastering the more refined elements of style, tone, theme, and character development. Students will further their understanding of the literature with both research-based and analytical writing. Some novels will be commonly read as a class while other selections will be based upon the student's own choice.

ENGLISH IV LITERARY ADAPTATIONS: Film and Fiction (H1122)

GRADE 12

½ CREDIT

This literature course focuses on the close reading and critical comparison of novels and plays from throughout literary history to their modern film adaptations. Students will analyze the original literature and the film adaptation through critical thinking, discussion, and both research-based and analytical writing. Through the comparison of film and literature, students will master the identification and analysis of literary elements such as style, tone, theme, and character development. Some novels will be commonly read as a class while other selections will be based upon the student's own choice.

ENGLISH IV SHAKESPEARE (H1160)**GRADE 12****½ CREDIT**

Prerequisites: English III

In this course, students will interact with a variety of texts from William Shakespeare. Students will read the texts in the original language (aloud as much as possible), think critically about the diverse universal themes entwined in the texts, view professional productions (on film and in person if possible), and perform scenes and selections. Discussion and analytical writing will be integral elements of the coursework. Literature will include a sampling of Shakespearean sonnets and at least one play from each category: comedy, tragedy, and history. The goal of this course is for students to gain a deeper understanding of and appreciation for Shakespeare's timeless works. This course is ideal for students who enjoy literature and/or theatre.

ENGLISH IV THE WORKS OF J.R.R. TOLKIEN (H1161)**GRADE 12****½ CREDIT**

Prerequisite: English III

This course is a further and deeper look into J.R.R. Tolkien, the hero's journey, *The Hobbit* and *Lord of the Rings* films, and the real world. Students progress through a series of quests and challenges (assignments) completing them and earning experience (EXP) which converts to elective credit. Challenges include *The Hero's Journey* – where students write and reflect on their journey, *Tavern Talks* – these are online discussions students have with their fellow heroes, *Adventures in Middle-Earth* – challenges that students must conquer (project based learning). Students will be making media comparisons between Tolkien's written works, as the students read through *The Hobbit* and *Lord of the Rings (Fellowship of the Ring only)* books, and the various films.

ENGLISH IV CREATIVE WRITING (H1170)**GRADE 12****½ CREDIT**

Prerequisite: English III, AP Language, or AP Literature

The Creative Writing course is designed for students who desire to explore fictional writing as a form of art to pursue both expression and discovery. Students will study and produce a variety of literary genres, including poetry, story, graphic novel, and drama. The class will operate using the Writing Workshop model and will include activities of drafting, editing, self-reflection, peer review, conferencing, publishing, and presenting. Students will have opportunities to broaden the audience of their writing in authentic settings both in-person and online. Students will be encouraged to take the lead of their own learning and will be allowed the freedom to make choices about their own writing craft. Because of the connection between reading and writing, daily class time will be devoted to reading, and the study of mentor texts will shed light on a variety of writing styles. Students will leave this class with not only a portfolio of fiction pieces but also a confidence in writing as well as strategies for producing more writing in their future.

ENGLISH IV HISTORICAL FICTION (H1164)**GRADE 12****½ CREDIT**

Prerequisite: English III

Students will explore a fictional- but historically realistic- view of a variety of moments in both American and World history. Students will conduct research in order to enhance their understanding of the respective time period and cultures they are encountering in the fictional novels and short stories of this course, and they will incorporate such research into their informative and analytical writing. Student's will also investigate the author's craft and purpose in writing historical fiction.

ENGLISH IV MYTHOLOGY & FOLKLORE (H1169)**GRADE 12****½ CREDIT**

Prerequisite: English III

Mythology and Folklore focuses on close reading and analyzing texts that played a fundamental role in societies (past and present). Students will analyze origin texts from a variety of cultures and determine how those texts were affected by how that culture saw the world around them and how those texts influenced the structure of that society through critical thinking, discussions, and research. Students will use origin texts to determine how folklore and legends were then created as well as compare and contrast folklore and legends from different cultures

and societies. Mythology and Folklore is a writing intensive course that will include argumentative and expository writing such as a comparison essay of two myths/legends and a local folklore and legend project.

ENGLISH IV BRITISH LITERATURE (H1168)

GRADE 12 **½ CREDIT**

Prerequisite: English III

The goal of British Literature is to provide a broad base of knowledge in the field of literature. Throughout this course, students will read a sampling of works by British authors spanning from the classics to contemporary fiction, poetry, and drama. Specific selections include (but are not limited to) *Macbeth*, *Canterbury Tales*, *Beowulf*, *Lord of the Flies*, and *Frankenstein*. Students will complete a variety of assignments ranging from hands-on projects to research writing. In both classroom discussions and writing assignments, students will analyze aspects of literature (including themes, symbols, tone, mood, author's purpose, style, and other literary devices). This course is designed to increase students' higher-order thinking skills, depth of literary knowledge, and writing skills.

WORLD LANGUAGES

SPANISH I (H1530)

GRADE 9, 10, 11, 12 **1 CREDIT**

This class is an introduction to the Spanish language and Hispanic cultures. The course focuses on understanding and speaking Spanish through student involvement in class activities, conversations, and individual and group projects in order to develop beginning language skills and to establish an understanding of cultural relationships and cultural growth. Students learn basic high frequency vocabulary such as foods, location, animals, family members, etc. and how to make simple questions and sentences necessary to communicate in daily situations. Student participation is essential during class in order to be successful.

SPANISH II (H1531)

GRADE 10, 11, 12 **1 CREDIT**

Prerequisite: C in Spanish I is required and/or teacher approval.

This is the second Spanish course at the introductory level designed to continue introducing the fundamentals of the Spanish language by simulating immersion while students are in the classroom. The course focuses on input from authentic materials (articles, blogs, podcasts, etc.) to increase student output in Spanish. Students will demonstrate language acquisition and cultural awareness through the Interpersonal, Interpretive, and Presentational modes. Students will learn high-frequency vocabulary necessary for navigating a city/transportation, daily routines, healthy habits, and making food.

SPANISH III (H1538)

GRADE 11, 12 **1 CREDIT**

Prerequisite: C or better in Spanish II is required and/or teacher approval.

This is the third Spanish course designed to continue to build student vocabulary and will deepen student understanding of the target culture and of the grammatical structures of the language. Through continuous speaking, writing and reading in the target language, students will begin to fine tune their use of the language. The course focuses on input from authentic materials (articles, blogs, podcasts, etc.) to increase student output in Spanish. Students will demonstrate language acquisition and cultural awareness through the Interpersonal, Interpretive, and Presentational modes. Students will learn high-frequency vocabulary necessary for travel, health care, global problems and solutions. Students will start using various tenses: past tenses, future and conditional tenses, perfect tenses, imperatives, and some subjunctive.

SPANISH IV (H1533)

GRADE 12 **1 CREDIT**

Prerequisite: C or better in Spanish III is required and/or teacher approval.

This is the fourth Spanish course designed to continue to build student vocabulary and will deepen student understanding of the target culture and of the grammatical structures of the language. Students will start to recognize more complex interrelatedness of the language. Through continuous speaking, writing and reading in the target

language, students will begin to fine tune their use of the language. The course focuses on input from authentic materials (articles, blogs, podcasts, etc.) to increase student output in Spanish. Students will demonstrate language acquisition and cultural awareness through the Interpersonal, Interpretive, and Presentational modes. Students will learn high-frequency vocabulary necessary for discussing and debating global problems and solutions, influential people, and historical events. Students will continue using various tenses: past tenses, future and conditional tenses, perfect tenses, imperatives, and subjunctive.

SOCIAL STUDIES

WORLD HISTORY (H3072)

GRADE 9

1 CREDIT

This course is an in-depth review of world history from the Early Middle Ages to the Cold War Era. Special emphasis will be placed on factors contributing to European culture. The students will trace events, forces, and processes which shaped nations or impacted others. The student will use various resources and skills to draw conclusions to explain the effects of major historical eras. Students will also understand the multiple forms of conflict resolution and how they have shaped history. All 9th graders must take a world history course. Successful completion of two semesters of a world history class is required for graduation.

HONORS WORLD HISTORY (H3073)

GRADE 9

1 CREDIT

Prerequisite: At least a B both semesters of 8th grade American History.

The primary goal of Honors World History is to present a strong account of the central developments in world history. This course seeks to call attention to the following critical themes: the development of political freedom, constitutional government, and concern for the rule of law and individual rights; the shifting relations among religion, society, and the state; the development of science and technology and their expanding impact on thought, social institutions, and everyday life; and the major religious and intellectual currents that have shaped culture. These themes have been fundamental in civilization, shaping the past and exerting a continuing influence on the present. This is an accelerated class placing emphasis on critical thinking skills, reading, essay writing, research, and current events. All 9th graders must take a world history course for graduation. Successful completion of two semesters of a world history class is required for graduation.

NATIONAL HISTORY DAY (H3115)

GRADE 9, 10, 11, 12

1 CREDIT

Do you like to research interesting topics? Do you like to create your own projects and presentations? This may be the opportunity for you! In the Spring more than half a million students participate in National History Day (NHD) nationwide. Students will choose a research topic. They will look through libraries, archives and museums, conduct oral history interviews, and visit historic sites. Then they will analyze and interpret the sources, and draw conclusions about the significance of/to their topic. Students will present their work in one of five ways: as a paper, an exhibit, a performance, a documentary, or a web site. In the spring students may enter their work into the District NHD contest hosted at MSU, where it will be judged by professional educators and historians. If the work is chosen as one of the best, they will move on to the Missouri NHD contest hosted at MU in Columbia. If a student wins at the state NHD contest, he/she will be eligible to attend the Kenneth E. Behring National History Day Contest at the University of Maryland at College Park in June. This is where the best National History Day projects from across the United States, American Samoa, Guam, International Schools and Department of Defense Schools in Europe all meet and compete. This is a repeatable course because the history day topic changes each year.

POLITICAL SCIENCE (H3007)

GRADE 10

1 CREDIT

This required two-semester course is designed to introduce the students to the functions of local, state, and national government. The U.S. Constitution and the Missouri Constitution will be studied and exams over both must be passed to fulfill state requirements for graduation. Political Science fulfills the state requirement for government education and prepares the students for the required End-of-Course Exam. All 10th graders must take a

political science course. Successful completion of two semesters of Political Science or Honors Political Science is required for graduation.

HONORS POLITICAL SCIENCE (H3008)

GRADE 10

1 CREDIT

Prerequisite: A minimum 3.0 GPA (unweighted) and at least a B both semesters of 9th Grade World History or at least a B- both semesters of 9th Grade Honors World History.

Honors Political Science is designed to introduce the students to the functions of local, state, and national governments. The U.S. Constitution and the Missouri Constitution will be studied and exams over both must be passed to fulfill state requirements for graduation. This course fulfills the state requirement for government education and prepares the student for the required End-of-Course Exam. This is an accelerated class which places special emphasis on critical thinking, reading, essay writing, research, primary source analysis, and discussion. All 10th graders must take a political science course. Successful completion of two semesters of Honors Political Science or Political Science is required for graduation.

AMERICAN HISTORY (H3010)

GRADE 11

1 CREDIT

American History is a general course designed for juniors and places emphasis on events in the United States from Reconstruction to modern times. Units of study include: Reconstruction; the Gilded Age; Populism and Progressivism; the U.S. becomes a World Power; the Jazz Age and Economic Crash; the Great Depression; World War II; Late 1940s and the 1950s; 1960s and 1970s; Conservatism; and the U.S. in the New Century. Upon completion of the course, students will be able to identify major themes in U.S. history as well as U.S. goals and policies throughout the late nineteenth and twentieth centuries. Successful completion of two semesters of an American history course fulfills a State of Missouri graduation requirement.

ADVANCED UNITED STATES HISTORY (Dual Credit) (H3062)

GRADE 11

1 CREDIT

Prerequisite: A minimum 3.0 GPA (unweighted) and at least a B both semesters in Political Science or at least a B- both semesters in Honors Political Science.

This course will survey the history of the United States of America from approximately 1492 to modern times: from the “discovery” and settlement of the New World to the recent past. The primary focus of the course will be to provide students with an opportunity to develop an understanding of some of the major themes in American history, to train students to analyze historical evidence and to develop in students their ability to analyze and express historical understanding in writing. Advanced United States History is a course designed for juniors that also has the same objectives and requirements as a college freshman history course. Advanced U.S. History fulfills the state requirement for American History.

Advanced U.S. History students may receive 3 hours of college credit for each semester (a total of 6 hours) by participating in the Drury University dual credit program. Class: Survey of United States History I HIST 101 and Survey of United States History II HIST 102.

Two semesters (with grades of B- or better) of Lebanon High School Advanced United States History are the prerequisites to Advanced U.S. Government and Politics (American Heritage.)

GEOGRAPHY (H3041)

GRADE 10, 11, 12

½ CREDIT

The geography of the world has gone through a period of great transformation. This class is based on the five fundamental themes in geography. The five themes (location, place, human-environment interaction, movement, and region) provide a useful and directly applicable framework for teaching and learning geography. These themes and this class stress that geography focuses on understanding places, what they are like, why they are like they are, and how they are interrelated. Applying geography in everyday life is an important emphasis of this class. The purpose of this class is to use geography to deepen and enrich student understanding of the world, places, peoples, and cultures.

OZARK STUDIES (H3081)**GRADE 11, 12****½ CREDIT**

In Ozark Studies, students will explore the history and culture of the Ozarks' region. Students will discover how the area was formed, settled, and affected by national and regional decisions or events. By the end of the course, students should have a deeper understanding of the local area as well as its resources, struggles, and opportunities.

CONTEMPORARY ISSUES (H3020)**GRADE 11, 12****½ CREDIT**

Contemporary Issues consists of the study and exploration of current events and social issues. The course is structured so that both domestic and international topics will be addressed. Electronic and print media from multiple sources will be used to help students gain a deeper understanding of topics affecting our area, nation, and world. Students will have the opportunity to investigate high-interest topics to respectfully discuss and debate. Topics of instruction may include categories such as politics and government, science, the environment and technology, war and conflict, social issues, economics and personal finance, and/or breaking news stories.

THE HISTORY OF ROME (H3034)**GRADE 11, 12****½ CREDIT**

The History of Rome traces the founding of Rome to the empire's demise in 476 AD. This course seeks to call attention to the following themes: early Rome, wars of expansion, Rome as an empire, the founding and expansion of Christianity, and the decline and fall of Rome. This class places emphasis on critical thinking, reading, essay writing, and research. This class will be limited to one section.

AMERICAN MILITARY HISTORY (H3011)**GRADE 11, 12****½ CREDIT**

American Military History traces the causes, politics, battles, events, and effects of seven conflicts in American History. Conflicts that will be studied include the American Revolution, Civil War, Spanish-American War, Korean War, and the Persian Gulf War. This class places emphasis on critical thinking, reading, essay writing, research, and current events. This class will be limited to one section.

AP PSYCHOLOGY (*Dual Credit) (H3092)**GRADE 11, 12****1 CREDIT**

Prerequisite: A minimum 3.0 GPA (unweighted)

Advanced Placement Psychology is a year-long elective for juniors and seniors that meets the requirements for a college preparatory certificate and is the equivalent of a college introductory psychology course. This is a rigorous and demanding course, intended to provide the scope and level of accomplishment expected in a college/university setting. The curriculum for the course places a heavy emphasis on essential readings, writing assignments, independent projects, and frequent tests intended to prepare students for the AP Exam.

The purpose of the Advanced Placement course in psychology is to introduce students to the systematic and scientific study of behavior and mental processes of human beings and animals. Students are exposed to the psychological facts, principles, and phenomena associated with the major subfields within psychology. They also learn about the methods psychologists use in their science and practice.

*AP PSYCHOLOGY-Virtual Learning (Dual Credit) This course may be taken for dual credit through Drury University PSYC 120.

SOCIOLOGY (H3100)**GRADE 11, 12****½ CREDIT**

This is an introductory sociology course intended for juniors and seniors, and is writing intensive. This course meets the college preparatory certificate requirement. Students will learn the basic principles, concepts, and theories that constitute the core study of sociology, which will help to better understand society as a whole. Students will hopefully be able to see the world through the eyes of others, and draw connections between what they are studying in class and current events. Students will employ the tools of writing, research and analysis related to sociological investigation.

**ADVANCED UNITED STATES GOVERNMENT AND POLITICS (H3052)
(AMERICAN HERITAGE HONORS) (Dual Credit)**

GRADE 12 **1 CREDIT**

Prerequisite: A minimum 3.0 GPA (unweighted) and at least a B- both semesters of Lebanon High School Advanced United States History.

This is an honors course for seniors emphasizing college-preparatory skills. The primary focus of the course is critical analysis of constitutional principles and political parties. Only students enrolled in both semesters in Lebanon High School Advanced United States Government and Politics may participate in a class trip to Washington, DC, Philadelphia, and New York City. Participation in this trip is a privilege and not a right. Students are responsible for all trip expenses. Students must have a first semester grade no lower than a B- to go on the trip. Any student misconduct prior to the trip resulting in out of school suspension will disqualify that student from going on the trip. Serious misconduct while on the trip may be grounds for the supervising teacher to send the student home early at the student's expense.

Advanced United States Government and Politics students may receive 3 hours of college credit by participating in the Drury University dual credit program. Students must be enrolled in both semesters of Advanced United States Government and Politics to be eligible for dual credit. Class: Government and Politics in United States PLSC 101--Drury University.

MATHEMATICS

INTERMEDIATE ALGEBRA A (H2006)

GRADE 9, 10 **1 CREDIT**

Prerequisite: Teacher referral

This is the first course in a sequence of four courses that is geared for the vocational student and takes a gradual approach in understanding algebraic concepts. Topics included in this course: use algebraic manipulations, including rules on integer exponents, to simplify expressions and solve equations, solve and graph inequalities, solve linear equations, graph, and recognize graphs of, linear functions, write linear equations from given patterns, and solve systems of linear equations.

INTERMEDIATE ALGEBRA B (H2007)

GRADE 10, 11 **1 CREDIT**

Prerequisite: Intermediate Algebra A or Teacher referral

This is the second course in a sequence of four courses that is geared for the vocational student and takes a gradual approach in understanding algebraic concepts. Topics included in this course: use algebraic manipulations, including rules on integer exponents, to simplify expressions and solve equations, solve and graph inequalities, solve linear equations, graph, and recognize graphs of, linear functions, write linear equations from given patterns, and solve systems of linear equation

ALGEBRA I (H2010)

GRADE 9, 10, 11, 12 **1 CREDIT**

Algebra I is the first course in a sequence of three courses that integrates algebraic and geometric principles. Topics included in this course: evaluate expressions and functions, use properties of exponents to simplify expressions, solve linear and quadratic equations, graph and recognize graphs of, linear, quadratic, and exponential functions, write linear equations from given patterns, solve systems of equations, solve and graph inequalities, apply operations to polynomials.

INTERMEDIATE GEOMETRY (H2051)

GRADE 10, 11 **1 CREDIT**

Prerequisite: Intermediate Algebra B or teacher referral from Algebra I

This is the third course in a sequence of four courses that is geared for the vocational student and takes a gradual approach in understanding geometric concepts. Topics included in this course: basic geometry terms and

figures, parallel lines, classification of triangles and triangle properties, including right triangles, quadrilaterals, perimeter and area, 3 dimensional space, surface area and volume, and similarity of figures.

GEOMETRY (H2040)

GRADE 9, 10, 11, 12

1 CREDIT

Prerequisite: C or better in Algebra I or teacher referral

This is the second course in a sequence of three courses that integrates algebraic geometric principles. Topics included in the course: basic building blocks of geometry terms and figures, writing proofs, parallel lines and properties, classification of triangles and triangle properties, quadrilaterals, right triangles, perimeter and area, 3-dimensional space, surface area and volume, similarity of figures, and properties of circles.

HONORS GEOMETRY (H2052)

GRADE 9, 10

1 CREDIT

Prerequisite: B+ in Algebra I and teacher recommendation.

This course devotes more time to the geometric principles of formal proofs and will develop the geometric concepts at an accelerated pace. Topics included in this course: basic building blocks of geometry terms and figures, writing proofs, parallel lines and properties, classification of triangles and triangle properties, quadrilaterals, right triangles, perimeter and area, 3-dimensional space, surface area and volume, similarity of figures, and properties of circles.

INTERMEDIATE ALGEBRA II (H2025)

GRADE 11, 12

1 CREDIT

Prerequisite: Intermediate Geometry or teacher referral from Geometry

This is the final course in a sequence of four courses that integrates algebraic and geometric principles. Topics included in this course: solve linear, quadratic, absolute value, exponential, radical, polynomial, and logarithmic equations using various methods, graph, and recognize graphs of. linear, quadratic, exponential, and absolute value functions, write linear and quadratic equations from given patterns, solve systems of linear equations and inequalities, apply matrices to simplify expressions and solve equations, apply properties of rational exponents, and evaluate trigonometric functions.

ALGEBRA II (H2020)

GRADE 10, 11, 12

1 CREDIT

Prerequisite: C or better in Algebra I & Geometry or teacher referral

This is the final course in a sequence of three integrated algebraic and geometric principles. Topics included in this course: solve linear, quadratic, absolute value, exponential, radical, polynomial, and logarithmic equations using various methods, graph, and recognize graphs of, linear, quadratic, exponential, and absolute value functions, write linear and quadratic equations from given patterns, solve systems of linear equations and inequalities, apply matrices to simple expressions and solve equations, apply properties of rational exponents, and evaluate trigonometric functions. Successful completion will give a college bound student adequate knowledge for the required course in college mathematics.

HONORS ALGEBRA II (H2061)

GRADE 10, 11

1 CREDIT

Prerequisite: B+ in Algebra I and Geometry and teacher recommendation.

This course is for serious math students. Algebra II topics will be developed more thoroughly and at an accelerated pace. Topics included in this course: solve linear, quadratic, absolute value, exponential, radical, polynomial, and logarithmic, equations using various methods, graph, and recognize graphs of linear, quadratic, exponential, and absolute value functions, write linear and quadratic equations from given patterns, solve systems of linear equations and inequalities, apply matrices to simplify expressions and solve equations, apply properties of rational exponents, and evaluate trigonometric functions.

INTERMEDIATE COLLEGE ALGEBRA (H2070)**GRADE 11, 12****1 CREDIT**

Prerequisite: College-bound juniors and seniors who received a grade C or D in Algebra II. (Juniors who receive a grade of B or A in Algebra II should enroll in Math Analysis, Statistics or College Algebra)

This course integrates algebraic and geometric principles and is intended for students who completed Algebra 2 but do not have adequate skills to be successful in college algebra. Topics include: solve linear, quadratic, absolute value, exponential, radical, polynomial, and logarithmic equations using various methods, graph, and recognize graphs of linear, quadratic, exponential, and absolute value functions, write linear and quadratic equations from given patterns, solve systems of linear equations and inequalities, apply matrices to simplify expressions and solve equations, apply properties of rational exponents, and evaluate trigonometric functions.

COLLEGE ALGEBRA (Dual Credit) (H2081)**GRADE 11, 12****1 CREDIT**

Prerequisites: B or better in both Algebra I and Algebra II or B in Intermediate College Algebra.

College Algebra is a yearlong course designed to prepare students for the successful completion of a College Algebra course at a university or college level. Course content will be that which is found in college algebra textbooks.

Dual credit for College Algebra with Drury University (MTH 109) is an option for all students who meet requirements set by the Missouri Board of Higher Education. A student must be enrolled in College Algebra both semesters in order to receive dual credit. Requirements set by the Missouri Board of Higher Education for any student seeking dual credit in College Algebra are as follows: have a 3.0 cumulative GPA, Principal recommendation.

MATH ANALYSIS/TRIGONOMETRY (H2090)**GRADE 11, 12****1 CREDIT**

Prerequisite: B- or better in Algebra II

Math Analysis is a yearlong course designed primarily for the college bound student. The subject matter includes foundations of real analysis, analytic geometry, sequences, series, and limits, functions and limits, theory of polynomial equations, introduction to differential and integral calculus, trigonometry, matrices and systems of equations, and probability theory.

AP STATISTICS (H2102)**GRADE 11, 12****1 CREDIT**

Prerequisite: Grade of B or better in both semesters of Algebra II.

The AP Statistics course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes evident in the content, skills, and assessment in the AP Statistics course: exploring data, sampling and experimentation, probability and simulation, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding. Many college majors require a statistics course and this course is good preparation for that.

AP CALCULUS (Dual Credit) (H2111)**GRADE 12****1 CREDIT**

Prerequisite: Math Analysis and teacher recommendation.

This is an accelerated mathematics course where the main objective is to foster a conceptual understanding of Calculus. It is equivalent to the Calculus I class offered at the university level. Approval of the instructor is required for registration. Students may receive additional credit through the AP exam. Certain stipulations and financial conditions may be required in order to receive these special benefits. Dual credit for Calculus with Drury University (MTH 231) is an option for all students who meet requirements set by the Missouri Board of Higher Education. A student must be enrolled in Calculus both semesters in order to receive dual credit. Requirements set by the Missouri Board of High Education for any student seeking dual credit in Calculus are as follows: have a 3.0 cumulative GPA, Principal recommendation.

MATH IV INTEGRATED (Dual Credit)

GRADE 11, 12

¼ CREDIT PER SEM.

Prerequisite: Must be enrolled in appropriate LTCC class

Only students who are enrolled in certain programs at Lebanon Technology and Career Center are eligible. This course is integrated in specific LTCC classes during the student's Junior and Senior year. Students must have completed Algebra I or the equivalent and at least one other high school level math course in order to enroll in this course. This competency-based course is taught in a collaborative environment with a mathematics teacher and a LTCC instructor. Students must obtain an 75% (2.0 GPA Scale) per semester or better in order to earn credit. Dual credit is an option through MSU/West Plains for MGT 130.

This course focuses on technical skills related to mathematics and work readiness as a learning process. Competencies were developed to allow students to be able to solve a variety of problems related to projects within their subject matter. All projects must allow the student to demonstrate their ability to use mathematical concepts to develop methods of solution and correlate with formulas and terminology used within a variety of high school math courses. Each program area will develop technology-specific projects and assessments while preparing students for higher education or provide them with the knowledge necessary to enter directly in a trade. Competencies include:

- Perform basic operations of integers, fractions, and decimals.
- Analyze and practically apply proportional relationships in ratios, rates, proportions, and percents in the workplace and other situations to solve basic problems.
- Understand and practically apply formulas, functions, and concepts of algebra, geometry, and trigonometry related to the technical trades and workplace.
- Calculate and solve multi-step word problems/equations unique to the technical trades and workplace.
- Read, construct and use graphs to make informed decisions.
- Communicating mathematical thinking coherently and clearly to peers, teachers and others.

SCIENCE

STEMs of SCIENCE (Freshman Only) (H4081)

GRADE 9

1 CREDIT

STEMs of Science, a freshman only class, is the comprehensive study of introductory chemistry, physics, earth science and life science. Topics of study for chemistry include atomic theory, molecular structures and basic chemistry concepts. Physics will include introductory topics in mechanics, electricity, heat, light and sound. Energy that accompanies chemical and physical changes is stressed. Earth and space science topics as they relate to physical science, such as Metrology, oceanography, geology and astronomy will be studied. Life science will include the taxonomy, structure/physiology, and ecological roles of animals and plants. There will also be an introduction to various human body systems and the roles they play to maintain homeostasis.

BIOLOGY I (H4020)

GRADE 10

1 CREDIT

Biology is the study of living things. Because it is the first course in biology, it is an overview of many areas of biology. Topics of study include nature of life, continuity of life, cells and cellular processes, microbiology, and genetics. Students will spend time developing laboratory skills and working on projects. This is an EOC tested course.

HONORS BIOLOGY I (H4062)

GRADE 10

1 CREDIT

Prerequisite: B in 9th grade Honors Physical Science or an A- in Physical Science with permission to take H Biology.

Biology is the study of living things. Because it is the first course in biology, it is an overview of many areas of biology, but emphasizes cellular processes necessary for understanding modern biology. Topics of study include nature of life, continuity of life, cells and cellular processes, microbiology and genetics. Students will spend

time developing laboratory, research, and inquiry skills. Students in Honors Biology I can also expect to move at a faster pace and interact with content more in depth and application. This is an EOC tested course.

CHEMISTRY I (H4040) *Slideshow for junior/senior [courses](#)*

GRADE 10, 11, 12

1 CREDIT

Prerequisite: Preferred B or above in Algebra I or teacher recommendation. Must have signatures from both your current science and math teachers.

This course is designed to be an introductory course in which students are expected to demonstrate a firm understanding of fundamental chemistry concepts. Topics of study include compounds and their chemical composition, formula calculations, ionizations, metals, non metals, acids and bases, states of matter, nuclear reactions and an introduction to organic chemistry. Numerous classroom demonstrations and laboratory exercises are part of the course work.

HONORS CHEMISTRY I (H4042) *Slideshow for junior/senior [courses](#)*

GRADE 10, 11, 12

1 CREDIT

Prerequisite: B or above in Algebra I or teacher recommendation. Must have signatures from both your current science and math teachers.

This course is designed to be an introductory course in which students are expected to demonstrate a firm understanding of fundamental chemistry concepts. Topics of study include compounds and their chemical composition, formula calculations, ionizations, metals, non metals, acids and bases, states of matter, nuclear reactions and an introduction to organic chemistry and biochemistry. Being an honors course, the rigor and pace will be enhanced to a more collegiate level. Numerous classroom demonstrations and laboratory exercises are part of the course work.

EARTH SCIENCE (H4011) *Slideshow for junior/senior [courses](#)*

GRADE 11, 12

1 CREDIT

Prerequisite: STEMs of Science (Formerly Physical Science) & Biology I

This is an investigative course emphasizing the various parts of the natural world and how you as a student interact with it all. Topics of study include Mapping, Natural Energy Cycles, Geology, Streams, Caves, Plate Tectonics, Volcanoes, Natural Disasters, Weather, Climate and Astronomy. Decision-making skills will also be stressed in order for students to make informed decisions concerning the environment. Finally, students will explore potential career paths related to the environment throughout this course.

PROJECT BASED PHYSICS (H4097) *Slideshow for junior/senior [courses](#)*

GRADE 11, 12

1 CREDIT

Project Based Physics is a course for students not intending to pursue a career in science or engineering who are interested in learning some of the basics of Physics. Possible topics to be studied include vibrations and waves, sound, static electricity, electrical forces and fields, current electricity (series and parallel circuits), magnetism, and nuclear physics.

HONORS BIOLOGY II (H4066) *Slideshow for junior/senior [courses](#)*

GRADE 11, 12

1 CREDIT

Prerequisite: B in Biology I or C in Honors Biology (students not meeting this prerequisite must have approval from the Bio II teacher)

Honors Biology II is an in-depth study of life's processes at the cellular level. The primary focus is molecular and cellular biology. Molecular biology is a biological field that is concerned with the molecular basis of biological activity between macromolecules in the various systems of a cell. These interactions include investigating DNA, RNA, proteins and their biosynthesis, as well as the regulation of these interactive relationships in helping a cell maintain homeostasis as well as the organism. Chemistry I is strongly recommended.

BIOLOGY II (H4031) *Slideshow for junior/senior [courses](#)*

GRADE 11, 12

1 CREDIT

Prerequisite: D+ or better in Biology I

Biology II will emphasize on taxonomy and how organisms are organized and classified. In addition,

students will understand the life functions of plants and animals, to include: reproduction, photosynthesis, cellular respiration, internal functions of living organisms, and how organisms respond to various environmental conditions.

COLLEGE PHYSICS I (Dual Credit) (H4093) *Slideshow for junior/senior [courses](#)*

GRADE 11, 12

1 CREDIT

Prerequisites: Math courses with a C average. Passed Algebra II or currently enrolled; must have signatures from both your current science and math teachers; minimum 3.0 GPA for dual credit or permission of instructor. Meeting with the parent to enroll.

Physics I is the first course in a two course sequence in which student learning will focus on the foundational concepts of Physics. The development of analytical thinking skills, integration of mathematics, science, and technology will prepare students for post-secondary education. Measurement, technique, and discovery will be stressed in the laboratory. Topics of study covered will include, but are not limited to: vectors, laws of motion, kinematics, force, work and energy, momentum, circular and rotational motion, solids and fluids, and thermodynamics Math Analysis is recommended. Lab experience will be a part of the course. This course may be taken for dual credit through OTC as PHY 105 Introduction to Physics (4 credit hours). Students are responsible for their own tuition costs.

ANATOMY & PHYSIOLOGY (H4000) *Slideshow for junior/senior [courses](#)*

GRADE 11, 12

1 CREDIT

Prerequisites: B+ average in Biology I (students not meeting this prerequisite must have approval from the Anatomy & Physiology teacher) *Chemistry I is strongly recommended.

Anatomy and Physiology is the study of the human body with emphasis on the internal and external structure of the body and how the body works. Comparative anatomy will be used to expand understanding of structures and functions of the human body. This is a heavily laboratory-oriented course and is intended for students wanting to pursue a career in medicine.

ANATOMY & PHYSIOLOGY II (H4001) *Slideshow for junior/senior [courses](#)*

GRADE 12

1 CREDIT

Prerequisite: B+ average in Anatomy & Physiology I and/or PLTW-Human Body Systems (students not meeting this prerequisite must have approval from the Anatomy & Physiology teacher)

The focus of Human Anatomy and Physiology II is to gain an in-depth understanding of how the human body is built and operates. Using Project Based Learning and laboratory dissections, students will understand how organs and organ systems work in concert to maintain a functioning body. We will also learn what happens when health problems arise and options for how those problems can be treated.

PHYSICS II (H4091) *Slideshow for junior/senior [courses](#)*

GRADE 12

1 CREDIT

Prerequisites: Math courses must be a C average. Passed Algebra II or currently enrolled; must have signatures from both current science and math teachers. Must have a minimum 2.5 GPA OR permission from the instructor.

Physics II is the second course in a two course sequence. Student learning will focus on the foundational concepts of physics. The development of analytical thinking skills, integration of mathematics, science, and technology will prepare students for post-secondary education, measurement, technique, and discovery will be stressed in the laboratory. Topics of study covered will include, but are not limited to, electricity and magnetism, electrical circuits, geometrical optics, mirrors and lenses, relativity, nuclear reactions, and elementary particle physics.

COLLEGE ENVIRONMENTAL AND LIFE SCIENCE (Dual Credit) (H4065)

Slideshow for junior/senior [courses](#)

GRADE 12

1 CREDIT

Prerequisites: Physical Science, Biology I, and another science elective (Chemistry I recommended) with a B or greater. Any student receiving a C or less on any prerequisite course, OR a **Junior** wishing to enroll, must have approval from the the course instructor and their current science instructor. Minimum 3.0 GPA for dual credit is required.

This course is intended for the serious biology student and emphasizes a broad range of biology topics. The Fall semester course covers a study of the biological principles that apply to all living systems. A survey of living organisms with an emphasis on how life functions on Earth and how living things have adapted over time is explored. The Spring semester provides a study of how human population affects the Earth's ecosystems by its use of Earth's resources and disposal of their waste products. Laboratory activities are a significant portion of this course and give students the opportunity to apply biological principles presented in lecture. This course may be taken for dual credit through OTC as BIO 100 (4 credit hours) in the Spring and Bio 105 (4 credit hours) in the Fall. Students are responsible for their own tuition costs.

SCIENCE RESEARCH (H4055) *Slideshow for junior/senior [courses](#)*

GRADE 11, 12

1 CREDIT

Prerequisites: Application process required, Science Research instructor must sign enrollment form

The objective of this Science Research course is to provide students an opportunity to mirror what would actually occur in a STEM career. Science Research is developed for the student to experience planning, performing, and reporting real, original research as well as an opportunity to learn for the sake of learning free from the limitations of the standard classroom. Assessments are purely based on the work you do, there will be a state-level presentation component. Since this class is structured differently than a traditional class you must be self-disciplined and self-motivated.

FINE ARTS

INTRODUCTION TO THEATRE (H5066)

GRADE 9, 10, 11, 12

1 CREDIT

This course is designed as a general introduction to theatre arts and answers the question "What does it take to bring a script to life?" Students will spend 1st semester with a focus on acting and performance. Second semester focuses on theatre marketing, playwriting, directing, costume design, hair & make-up, scenery design & construction, lighting, and sound. The class will culminate in a theatre portfolio that showcases the student's work in each area and a final project in the area of their choice. This class prepares students for all other theatre courses.

SPEECH AND DEBATE (H5114)

GRADE 9, 10, 11, 12

1 CREDIT

This is a class that has a focus on competitive presentation skills. The class will have units that involve argumentation, debate, and public speaking. The students will be required to attend tournaments (held on the weekends) for a percentage of their grade. All tournaments are two days long (Friday and Saturday). This class will give an overview of the principles of speech and debate, and is open to all students, even those who have never had a competitive speech class before (first year).

ADVANCED SPEECH AND DEBATE (H5113)

GRADE 10, 11, 12

1 CREDIT

This is a class that has a focus on competitive presentation skills. The class will have units that involve argumentation, debate, and public speaking. The students will be required to attend tournaments (held on the weekends) for a percentage of their grade. All tournaments are two days long (Friday and Saturday). This class will require students to go more in-depth into different events and participate in multiple different types of debates throughout the year. Students in this class will also be required to attend more tournaments per semester. This class is only for students who have taken Speech and Debate before.

STAGE MAKE-UP DESIGN & COSTUME CONSTRUCTION (H5125)

GRADE 10, 11, 12

½ CREDIT

This hands-on course focuses on the role of costume and make-up design in the theatre. Students will learn how to create realistic wounds, facial hair, aged skin, and other special effects. Make-Up topics include matching skin tone, highlight and shadow, blending, basic corrective makeup, safety and hygiene, and prosthetics. This course

teaches skills in a classroom setting and then allows the student to execute those skills in a production setting. It is within these dual environments that students learn their craft.

TECHNICAL THEATRE (H5064)

GRADE 10, 11, 12

1 CREDIT

Prerequisite: Teacher Approval

This hands-on course focuses on the role of scenery and props in the theatre. Students will design, build, paint, and construct scenery for our two main-stage productions (one musical and one play). This course teaches skills in a classroom setting and then allows the student to execute those skills in a production setting. It is within these dual environments that students learn their craft. Students may take this class multiple times

PERFORMANCE THEATRE (H6068)

GRADE 11, 12

1 CREDIT

Prerequisite: Teacher Approval

This is a hands-on class that will produce short plays, skits and performances for other schools. In addition, students involved in this course will be required to take part in a MSHSAA One Act play or reader's theatre competition in spring. Students will be expected to perform frequently, maintain good grades and represent the school in a good light while touring with shows. Students may take this class multiple times.

FILM STUDIES (H5128)

GRADE 11, 12

½ CREDIT

Film Studies introduces students to the basics of film analysis, cinematic formal elements, genre, and narrative structure and helps students develop the skills to recognize, analyze, describe and enjoy film as an art and entertainment form. This course is discussion heavy, and project and writing intensive. Students will require a signed permission slip from parents to partake in class. No movies shown will be above a PG-13 rating.

ART FOUNDATIONS (H5025)

GRADE 9, 10, 11, 12

½ CREDIT

Art Foundations is a basic art education course, using the elements and principles of art in many different ways. The course will develop students' art vocabulary, which increases their ability to express themselves clearly when discussing art and improves their ability to produce art works. Art Foundations students learn to apply the elements and principles of art to daily life. Students will develop creative thinking and problem solving skills as they rotate throughout the Art Department with each of the faculty. On approximate 2-4 week rotations, students will discover design through drawing, painting and ceramics. This half unit course is open grades nine through twelve: however it is predominantly freshman class. This class is prerequisite to all other art classes. There is no project cost.

DRAWING I (H5070)

GRADE 9, 10, 11, 12

½ CREDIT

Prerequisite: Art Foundations or approved portfolio and permission from the teacher.

This class is an introductory course in drawing. Students work on drawings and learning a variety of techniques. Students will work with a variety of materials including, pencil, charcoal, markers, and ink, etc. There is a project cost of \$10.00 per semester.

CERAMICS I (H5040)

GRADE 9, 10, 11, 12

½ CREDIT

Prerequisite: Art Foundation with a C average.

This is an introductory course in ceramics. Students will work mainly in hand building that will include techniques in pinch, coil, slab, additive and subtractive sculpturing. Both pottery and sculpture will be explored. Students will be introduced to throwing pottery on the wheel. Ceramic terminology and history will also be studied. There is a project cost of \$10.00 per semester.

PAINTING I (H5080)**GRADE 9, 10, 11, 12****½ CREDIT**

Prerequisite: Art Foundation with a C average.

This is an introductory course in painting. Various drawing techniques will be used to develop skills needed in painting so having Drawing first will be very helpful. Students will work in various painting media: water color, acrylic, pastels, etc. Students will also study techniques of some painting masters. There is a project cost of \$10.00 per semester.

ART II (H5011)**GRADES 10, 11, 12****1 CREDIT**

Prerequisite: Drawing, Painting, or Ceramics with a B average or better or teacher approval.

This course is designed to allow students to explore a variety of media at a higher level. Student will have some freedom of media choice but still have teacher structure. Students will continue their Art studies, in Drawing, Ceramics, or Painting. Art history and appreciation will be incorporated as well as studio management such as kiln and glaze responsibilities and portfolio development. Areas of study will include color and glaze theory, perspective, still life, and open observation. If Ceramics is a chosen medium wheel throwing will be required. Pictorial functions of space, volume, movement, texture, and compositional fundamentals will be covered. Self discipline and a strong work ethic will be emphasized, especially if a student wants to advance in the department. Student work will be expected to be prepped and hung in the student gallery and art shows. There is a project cost of \$10.00 per semester.

ART AND EXPERIENCE (Dual Credit) (H5026)**GRADE 12****½ CREDIT**

Prerequisite: 2.5 GPA

This course introduces the visual arts in the context of history and culture providing students with knowledge and practice in the skills necessary to make art a greater part of everyday life. It involves analysis of art works and introduces terminology and concepts for understanding the study of style, design, technique, iconography and function of art within various cultural matrices. This class may be offered for dual credit through OTC.

VIDEO/PHOTOGRAPHY (H5100)**GRADE 11, 12****1 CREDIT**

Prerequisite: Art Foundation, teacher permission

This class will provide the opportunity for students to gain advanced technical skills in both film and videotape. The semester will begin with basic information about the historical development of photography, and its relationship with the higher technology of the video world. Students will have the opportunity to shoot video and create work that could be presented in a professional format. Students will be exposed to the beauty of cinematic exploration through the use of film. They will also shoot and process 35mm black and white, and color photograph. By the end of the school year every passing student will have developed an extensive portfolio exhibiting both technical and creative skills. Independent learning and exploration will be stressed. It is imperative that all students bring to class a desire to learn, and an attitude that hard work is part of successful learning. Students in the class will work in close proximity with their peers. Maximum number of student in this class will be 20. Repeatable with teacher approval. There is a project cost of \$10.00 per semester.

ADVANCED ART STUDIES (H5010)**GRADE 11, 12****1 CREDIT**

Prerequisite: B average in past art classes or teacher permission

This course is for the serious art student considering a career in art. The students will be working in areas of study on an advanced level. Independent study will be involved. Areas of study may include art history, drawing, painting, ceramics, sculpture, printmaking, stain glass, jewelry, weaving, commercial art, and computer graphics. General requirements: A portfolio and resume will be required. Art work will be displayed in art shows throughout the year. There is a project cost of \$10.00 per semester.

ADVANCED CERAMICS (H5042)**GRADE 11, 12****1 CREDIT**

Prerequisite: B in Art II, Teacher permission

This course is designed for students who desire to continue to building technical skills and knowledge in ceramics processes. Students may choose to focus on a specific area of ceramic pottery or sculpture or they may choose a variety of activities. Students will work on an independent status with the teacher serving as guide. As this is an advanced-level course, students will be expected to display a high level maturity, discipline and leadership skills. Regular conferences with the teacher will provide feedback and direction for the student. Art work will be displayed in art shows throughout the year. There is a project cost of \$10.00 per semester.

ADOBE PHOTOSHOP (H5000)**GRADE 10****½ CREDIT**

Prerequisite: Art Foundation, teacher permission.

This class is designed to give students an opportunity to learn and explore computer graphics through the use of the Adobe systems. The Adobe systems provide photo savvy tools. The student will learn to change what is perceived as real imagery into new pieces of art. It will be presented on the semester basis for beginning and advanced credit. There is a project cost of \$10.00 per semester.

ART HISTORY I (H5020)**GRADE 11, 12****½ CREDIT**

Prerequisite: 3.0 GPA

This will introduce students to the elements of art history, the beginnings of art in the prehistoric world, the classical world, art and religion, and issues and ideas in Renaissance Art.

ART HISTORY II (H5020)**GRADE 11, 12****½ CREDIT**

Prerequisite: 3.0 GPA

This class continues the elements of art history of various regions and why and how art plays an important role in the economic, political and social development of the Baroque Era, 18th and 19th century Europe, the Americas and 20th century world.

PHOTOJOURNALISM (H5101)**GRADE 11, 12****1 CREDIT**

Prerequisite: Students must earn at least a "B" in Video/Photography or have permission of the instructor.

Photojournalism is a year-long course that engages students in the art of telling stories with digital video and still photography. Students will be expected to produce professional-quality products using computer video-editing software that can be shared with a school or community audience. Students will be expected to develop creative problem solving skills to express ideas and points of view with a variety of technology. Students will be expected to develop an understanding of the medium's historical, social and artistic merit. Students will be evaluated on what they learn, do and produce. Limited to 20 students. Repeatable with permission. There is a project cost of \$10.00 per semester.

BAND (H5029)**GRADE 9, 10, 11, 12****1 CREDIT**

Prerequisite: With permission of instructor. Students are admitted upon successful completion of elementary and junior high school band curriculum and upon displaying sufficient technical ability on a specific band instrument.

All band students will participate in marching band during the first three months of the fall semester, performing at LHS home football games, area marching competitions and local parades. Auditions will be held upon completion of the marching season for placement in one of three ability-based concert bands for the remainder of the fall semester and spring semester. These groups will rehearse daily and perform three local concerts as well as State Music Festival.

GROUP PIANO CLASS (H5036)**GRADE 9, 10, 11, 12****1 CREDIT**

This course covers topics related to piano technique, performance, sight-reading, memorization, ensemble playing and accompanying. Students will enjoy the process of learning piano skills, performing and appreciation for the art of pianism. They will learn and polish pieces chosen to match each student's personal level, applying appropriate expressive tools, such as dynamics and articulation.

CHAMBER CHOIR (H5050B)**GRADE 10, 11, 12****1 CREDIT**

Chamber Choir is an advanced choral ensemble open to students grades 9-12 by audition. The choir performs all styles of historical and contemporary choral literature befitting a small ensemble. Students will receive advanced training in solo and group singing, theory, and sight-reading. Participation in special events, rehearsals, performances, concerts, and festivals (which may take place outside of school hours) is required. Students are encouraged to audition for All-District and other honor choirs. Students are expected to participate in District Solo/Small Ensemble festival and serve as ambassadors to the community through performance. Students **MUST** meet MSHSAA criteria for eligibility to participate in some choral activities.

Attire Requirement: A dress or tuxedo, ordered by the choral department at the beginning of the year. The cost will be kept under \$125 and can be covered by fundraising. Students may purchase gently-used attire, as available. Students are asked to wear black hosiery, socks and dress shoes, as appropriate.

CONCERT CHOIR (H5052)**GRADE 10, 11, 12****1 CREDIT**

Concert Choir is an intermediate choral ensemble open to students grades 9-12. The choir performs all styles of historical and contemporary choral literature befitting a large ensemble. Students will continue to develop basic musicianship skills with an emphasis on theory, sight-reading, and choral singing. Students are encouraged to participate in District Solo & Ensemble festival. Enrollment in this class will require attendance at some rehearsals and performances outside the school day. Students **MUST** meet MSHSAA criteria for eligibility to participate in some choral activities.

Attire Requirement: A dress or tuxedo, ordered by the choral department at the beginning of the year. The cost will be kept under \$125 and can be covered by fundraising. Students may purchase gently-used attire, as available. Students are asked to wear black hosiery, socks and dress shoes, as appropriate.

YELLOWJACKET SINGERS (H5052S)**TREBLE CHOIR (H5052T)****GRADE 9, 10, 11, 12****1 CREDIT**

Treble Choir (sopranos and altos) and Yellowjacket Singers (tenors and basses) are introductory experiences in choral music. Each ensemble is open to all grades. The choirs perform all styles of historical and contemporary choral literature. The focus of these classes is to develop basic musicianship skills necessary for success in the choral program, with an emphasis on theory, sight-reading and choral singing. Rehearsal and performance techniques will be studied and developed. Participation in performances (which may take place outside of school hours) is required. Students **MUST** meet MSHSAA criteria for eligibility to participate in some choral activities.

Attire Requirement: Students will provide their own black concert attire, including shoes.

POPULAR MUSIC IN AMERICA (H5059)**GRADE 10, 11, 12****½ CREDIT**

In this course, students will explore popular music in America from the mid-19th century to today. A series of units will cover the development of the music publishing industry, the Blues and Jazz, Tin Pan Alley, and the history of Rock & Roll. Students will regularly respond to what they have learned in class, share music that interests them, create presentations about musical artists, and tell the story of their lives through music.

MUSIC THEORY (H5054)**GRADE 11, 12****1 CREDIT**

Prerequisite: Instructor approval

Music theory is open to students in grades 11 and 12 who are serious about exploring and enriching their knowledge of music fundamentals. Students will develop an understanding of music theory, history, composition, and analysis. Aural skills (ear training and sight singing) and the ability to read and write musical notation are an important part of the theory course. It is strongly recommended that students have performance experience through Lebanon High School's band or choir programs.

PHYSICAL EDUCATION

In all classes, dressing out and participation on a daily basis is required. Also, all classes will be required to take the President's Fitness Challenge. Beginning with the 2017-18 school year any Health class will satisfy the graduation requirement that all students will receive 30 minutes of cardiopulmonary resuscitation instruction and training in the proper performance of the Heimlich maneuver or other first aid for choking.

HEALTH/PHYSICAL EDUCATION (H7010)**GRADE 9****1 CREDIT**

The purpose of this general health/physical education course is to teach recreational skills, gain strength, agility, coordination, endurance, flexibility, and speed. These will be accomplished through the participation in team and individual sports, games, relays, and conditioning activities. One half of class time will be devoted to classroom instruction promoting health and wellness concepts.

HEALTH/PERSONAL FITNESS (H7001)**GRADE 9****1 CREDIT**

Prerequisite: B or better in 8th grade PE

The purpose of this advanced course in health/physical education is designed to stress basic principles of fitness, focusing on cardiovascular fitness, muscle toning, and flexibility through the use of aerobic activity and/or weights. Students of advanced fitness levels may take this course. Class time will be devoted to classroom instruction while promoting health and wellness concepts.

HEALTH/WEIGHTS (H7020)**GRADE 9****1 CREDIT**

Prerequisite: B average in 8th grade PE.

The purpose of this advanced course in health/physical education is designed for the advanced student who is serious about physical fitness and wishes to reach a higher level of performance. Body improvement students will also explore modern principles of strength and speed conditioning. Weight training and running will make up half the class time, the other half will be used in classroom instruction promoting health and wellness concepts.

BOYS' HEALTH/ADVANCED WEIGHTS (H7021)**GRADE 9****1 CREDIT**

Prerequisites: Male who participates in a school sport, or permission from the PE department head.

This course is designed to give students the opportunity to learn weight training concepts and techniques used for obtaining optimal physical fitness. Students will learn the advanced fundamentals of weight training, strength training, aerobic training, and overall fitness training and conditioning. Course includes both lecture and activity sessions. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime.

GIRLS' HEALTH/ADVANCED WEIGHTS (H7022)**GRADE 9****1 CREDIT**

Prerequisites: Female who participates in a school sport, or permission from the PE department head.

This course is designed to give students the opportunity to learn weight training concepts and techniques used for obtaining optimal physical fitness. Students will learn the advanced fundamentals of weight training, strength training, aerobic training, and overall fitness training and conditioning. Course includes both lecture and activity sessions. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime.

PHYSICAL EDUCATION (H7040)

GRADE 10, 11, 12

1 CREDIT

The purpose of physical education is to introduce a variety of team sports and individual activities designed to improve the student's skill and cardiovascular conditioning. Along with the games, there is a heavy emphasis on improving his/her overall level of fitness. Possible activities include touch football, softball, speedball, ultimate Frisbee, team handball, bowling, basketball, volleyball, weight training, and other recreational activities.

PERSONAL FITNESS (H7031)

GRADE 10, 11, 12

1 CREDIT

This is an advanced physical education class. It is designed to improve cardiovascular fitness, muscular endurance and strength and flexibility. Activities include but are not limited to Hi/Lo Floor Aerobics, Cardio Kickboxing, light weight lifting, aerobic games, and dance.

WEIGHTS (H7050)

GRADE 10, 11, 12

1 CREDIT

Designed for the athlete that may not be involved in school athletic programs, but wants to reach a higher level of fitness, through a variety of activities: strength training, plyometrics, circuit training, cardiovascular training, flexibility. Students will learn to build individual workout programs.

ADVANCED PHYSICAL EDUCATION (H7041)

GRADE 11, 12

1 CREDIT

Prerequisites: A or B in PE or Weights, a score of 18 or better on the fitness test, and permission from the physical education department head.

This course is designed to give grade students the opportunity to maintain appropriate levels of cardiorespiratory endurance, muscular strength and endurance, flexibility, and body composition necessary for a healthy and productive life. Advanced Physical Education enables students to understand the development of their bodies, enjoy sports as a participant, spectator, or referee. We study and explore the concepts and principles of human movement, including the development of motor skills, perceptual skills, coordination, strength, stamina, fitness, recreational pursuits, the prevention of injury and the promotion of wellness and health.

BOYS' ADVANCED WEIGHTS (H7052)

GRADE 10, 11, 12

1 CREDIT

Prerequisites: Male students who participate in a varsity sport, scores at least an 18 on fitness test, and permission from the physical education department head.

This course is designed to give students the opportunity to learn weight training concepts and techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardio respiratory endurance activities. Students will learn the advanced fundamentals of weight training, strength training, aerobic training, and overall fitness training and conditioning. Course includes both lecture and activity sessions. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime.

GIRLS' ADVANCED WEIGHTS (H7051A)

GRADE 10, 11, 12

1 CREDIT

Prerequisites: Female students who participates in a varsity sport, scores at least an 18 on fitness test, and permission from the physical education department head.

This course is designed to give students the opportunity to learn weight training concepts and techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardio

respiratory endurance activities. Students will learn the advanced fundamentals of weight training, strength training, aerobic training, and overall fitness training and conditioning. Course includes both lecture and activity sessions. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime.

FITNESS MOVEMENT (H7042)

GRADE 10, 11, 12

1 CREDIT

This course is designed to facilitate the development and maintenance of physical fitness by using fitness walking as the main activity. Students will learn basic concepts of biomechanics, safety, cardiovascular endurance, flexibility, setting and achieving personal fitness goals.

CROSS TRAINING (H7053)

GRADES 10, 11, 12

1 CREDIT

Prerequisite: A or B in any previous PE course.

Cross Training is a core strength and conditioning program. This program will be designed to elicit as broad of an adaptational response as possible. Cross Training is not a specialized fitness program but a deliberate attempt to optimize physical competence in each of ten recognized fitness domains. These domains are cardiovascular and respiratory endurance, stamina, strength, flexibility, power, speed, coordination, agility, balance and accuracy. Even the most superior athletes have huge gaps in their fitness. A runner/marathoner dominates cardio endurance but isn't strong. A powerlifter is strong but often has very low endurance. If your goal is to specialize and compete in one sport, then cross training is not for you. The goal of a cross trainer is to be competent in all 10 domains.

PRACTICAL ARTS



[GOCAPS Application link](#)

GOCAPS

Greater Ozarks Centers for Advanced Professional Studies (GOCAPS) is a unique, year-long learning experience that allows high school juniors and seniors to test drive future career options. Students develop real world professional skills as they are embedded in partner businesses.

GOCAPS gives students the chance to explore their interests in four areas: Engineering and Manufacturing, Medicine and Healthcare, Business and Entrepreneurship, and Teaching Professions. Students attend a morning session (8-10:30 a.m.) or an afternoon session (Noon-2:30 p.m.) every day throughout the school year. These sessions also allow for dual credit opportunities through Missouri State University and Ozarks Technical Community College.

ENGINEERING & MANUFACTURING (Dual Credit) (H8100)

GRADE 11, 12

3 ½ CREDITS

This year-long course is designed for students interested in becoming an engineer or advanced manufacturing professional. GOCAPS Lake Region students are immersed in businesses across southwest Missouri, and learn from industry professionals, job shadowing engineering and manufacturing professionals, and exploring the vast array of career options in this broad industry. Students work on projects direct from industry partners, innovate to solve real-world problems, develop project management and professionalism skills, and build a professional network in the region that will ensure future college and career success. Dual credit is offered by Missouri State University-West Plains.

MEDICINE & HEALTH CARE (Dual Credit) (H8105)

GRADE 11, 12

3 ½ CREDITS

This year-long course is designed for students interested in careers in health care and the medical industry. GOCAPS Lake Region students are immersed in area hospitals, clinics, pharmacies, veterinarian offices, physical therapy clinics, dentists' offices – and everything in between, to fully explore this broad industry. Students learn from health care professionals, job shadowing in clinical and non-clinical settings, and exploring the vast array of career options in health care. Students work on projects direct from our health care partners, innovate to solve real-world problems, develop project management and professionalism skills, and build a professional network in the region that will ensure future college and career success. Dual credit is offered by Ozark Technical Community College.

BUSINESS & ENTREPRENEURSHIP (Dual Credit) (H8110)

GRADE 11, 12

3 ½ CREDITS

This year-long course is designed for students interested in innovation and business. GOCAPS students are immersed in start-up businesses and established companies across southwest Missouri, and learn from professionals, job shadowing entrepreneurs and business owners, and exploring the vast array of career options and companies that make up the Lebanon, Camdenton, Conway region's diverse economy. Whatever you want to do in your future, experience in business will help you professionally and personally. Students work on projects direct from business partners, innovate to solve real-world problems, develop project management and professionalism skills, and build a professional network in the region that will ensure future college and career success. Dual credit is offered by Missouri State University-West Plains.

TEACHING PROFESSIONS (Dual Credit) (HC6256)

GRADE 11, 12

3 ½ CREDITS

GOCAPS students are immersed in education and training experiences across southwest Missouri. They learn from professionals, connect with departments of education at local colleges, build foundational knowledge in the field, and explore the vast array of related career options--both in and out of the traditional classroom. This course provides a seamless pathway to study the profession of teaching/education through experience as a classroom practicum/cadet student. Students spend time exploring various types of schools, grade levels, and classroom environments through tours and observations. They participate in an extended practicum, working in a classroom two to three days a week to observe teaching in action and to interact with students. GOCAPS students will also innovate to solve real-world problems, develop project management and professionalism skills and build a professional network in the region that will ensure future college and career success. Dual credit is an option through Missouri State University-West Plains.

LEBANON TECHNOLOGY & CAREER CENTER (LTCC) is proud to offer Career and Technical Education Practical Arts courses to students attending Lebanon High School. Although a majority of the following Practical Arts courses are taught at LTCC, Lebanon High School also offers Practical Arts courses indicated by an * (asterisk). To assist the student in designing their schedule and career interests, all of the Practical Arts courses are designated by both an Academy and Pathway.

LTCC programs requiring an application for admission are indicated by a + (plus). Many of the LTCC programs have the opportunity for students to earn 1 full credit of English and 1 full credit of Math while enrolled for 2 years at LTCC. Juniors and Seniors can earn ¼ credit of Math IV Integrated and ¼ credit of English IV Integrated each semester with cumulative percentage of 75% or better. LTCC programs that have the integrated academic credit opportunities are indicated by an = (equal sign). To receive certification in their career education program, a student must earn a C or better in their LTCC program plus earn the integrated academic credits, in available programs. Students who wish to earn the integrated academic credit through LTCC must have LTCC administrative approval if

qualifying for school flex as a senior. Articulated college credit and dual credit is awarded for certain programs in the Practical Arts Departments.

*Taught at LHS

+LTCC Programs requiring an application

=Integrated academic credit opportunities

BUSINESS MANAGEMENT & TECHNOLOGY

***BUSINESS COMMUNICATIONS (H6045)**

GRADE 10, 11, 12

½ CREDIT

Academy: Business Management & Technology

Pathway: Business Management & Administration

This one semester course is designed to give students a comprehensive view of communication, its importance in business, and the role of communication in establishing a favorable impression outside the office environment, as well as an effective internal communications program. Various types of business communication media are covered such as letters, memos, reports, electronic mail, and oral presentations. This course also develops an awareness of the importance of technology in regards to modern business communication. Students will use various technologies such as the Microsoft Office and G Suites, the Internet, and interactive presentational hardware and software.

ACCOUNTING I (HC6000)

GRADE 11, 12

1 CREDIT

Academy: Business, Management & Administration

Pathway: Finance

Recommended course prior to Entrepreneurship (can be concurrent)

Whether you plan to own a business, run a business, you will need to be able to speak the language of business. Accounting is the language of business. This class will introduce you to a variety business financial concepts that determine the direction of a business. You will learn to interpret financial information and guide a company in a positive direction. Different types of business transactions will be analyzed and evaluated in order for you to learn to how to complete the accounting cycle.

***PERSONAL FINANCE (Dual Credit) (H6230)**

GRADE 11, 12

½ CREDIT

(Dual credit available through MSU)

Academy: Business, Management & Technology

Pathway: Finance

This required course is designed to teach financial literacy skills. Over the course of the semester, money management strategies in the areas of savings, investing, credit, and insurance will be taught. At the end of the course, students will be able to make informed financial decisions that will carry over to their adult life. There will be a variety of classroom and online activities in each module. The majority of content will be available online to ensure students have access to their lessons at all times even when they are absent. The class supports a blended learning environment where students will receive instruction from the classroom teacher through the week and assignments will be on an online learning platform, Canvas.

LEADERSHIP IN BUSINESS/WEALTH (HC6042)

GRADE 9

1 CREDIT

Academy: Business, Management & Technology

Pathway: Business Management

Leadership doesn't come naturally to most of us. Fortunately, we can learn leadership skills (or improve them if you're a natural). In this course you will build the leadership skills you need to excel in college and career.

You will discuss contemporary leadership and teamwork literature, complete a team-based project and put your leadership skills into action at school, at home, and in the community.

Learn how to take charge of your money to build wealth. In this course, you'll gain the smarts you'll need to make major purchases – such as a car or a house, along with ways to protect your money, such as insurance and investing. And true to the High School of Business™ program, this course isn't just about sitting and listening. You'll do hands-on projects. At the end of the course, your class will get a chance to teach your new skills to others by offering your community a money management course.

ENTREPRENEURIAL EXPLORATION (HC6024)

GRADE 9

1 CREDIT

Academy: Business Management & Administration

Prerequisite: Application & Interview Required – Teacher Approval

Students will explore what it takes to be an entrepreneur, business owner or manager. Students will cultivate an entrepreneurial mindset through experiential learning and opportunities to apply those learnings. This course will be taught at our school retail store Jacket Junction (transportation will be provided).

ENTREPRENEURIAL MANAGEMENT I (HC6021)

GRADE 11, 12

3 ½ CREDITS

Academy: Business Management & Administration

Prerequisite: Entrepreneurial Exploration is recommended. Application & Interview Required – Teacher Approval

An intensive, hands-on program for high school students to discover their potential in business, technology, and entrepreneurship. Students in this class will be team members running our school retail store Jacket Junction.

ENTREPRENEURIAL MANAGEMENT II (HC6022)

GRADE 12

3 ½ CREDITS

Academy: Business Management & Administration

Prerequisite: Completion of Entrepreneurial Management I with a grade no lower than C. Application & Interview Required – Teacher Approval

An intensive, hands-on program for high school students to discover their potential in business, technology, and entrepreneurship. Students in this class will be team leaders running our school retail store Jacket Junction.

SUPERVISED BUSINESS PROGRAM (SBE) (HC8505)

GRADE 11, 12

1 CREDIT

Academy: Business, Management & Technology

Pathway: High School of Business™

Prerequisite: Three (3) courses in the Business program prior to requesting enrollment, interview.

The Supervised Business Experience (SBE) program is a workplace learning experience, which is an extension of the business education classroom. SBE training is designed for students in approved business education programs currently enrolled in a course such as Business Technology, Accounting II, and Network Administration. The SBE program provides on-the-job work experience that gives students the opportunity to master academic and workplace skills. Students can make the connection with real world expectations in terms of accuracy of work, production, staying on task, responsibility for work—all components which are stressed in the classroom setting. The work experience reinforces the importance of interpersonal skills, which gives students a forum to develop positive workplace experiences as they enter the workforce or prepare for continued education. The SBE program facilitates the transition from the classroom to the workplace.

***COMPUTER APPLICATIONS (H6080)**

GRADE 9, 10, 11, 12

½ CREDIT

Academy: Business, Management & Technology

Pathway: Information Technology

This one-semester course will allow the student to gain knowledge in proper keyboarding skills and techniques such as basic keying skills, formatting skills, and information processing skills. This course will also

allow students to develop skills and techniques using Microsoft Office software such as Word, Excel, and PowerPoint. The semester final will integrate all these skills into a capstone simulation project.

***SPORTS AND ENTERTAINMENT MANAGEMENT (H6030)**

GRADE 11, 12

1 CREDIT

Academy: Business, Management & Technology

Pathway: Information Technology

Prerequisite: Computer Applications

Sports and Entertainment Marketing focuses on marketing and management functions/tasks that can be applied in amateur or professional sports or sporting events, entertainment or entertainment events, selling or renting of supplies and equipment (other than vehicles) used for recreational or sporting purposes, products and services related to hobbies or cultural events, or businesses primarily engaged in satisfying the desire to make productive or enjoyable use of leisure time. Students will generate sales-promotion ideas that will encourage sales, examine research strategies to determine enterprise and target market composition, implement sales activities, and develop a comprehensive understanding of sport/event promotion.

+COMPUTER REPAIR (CR I) (HC6070)

GRADE 11

2 CREDITS

Academy: Business, Management & Technology

Pathway: Information Technology

Prerequisite: Complete a LTCC application and receive approval.

After completing the Computer Repair curriculum, the successful student will have the knowledge and skill set to obtain an entry level position, such as a Computer Technician. Content covered during this course includes the following, but is not limited to: Disassembly and reassembly of a working computer, installation and configuration of operating systems (Microsoft, Apple, and Linux), configuration of client systems to connect to network resources such as file and print services, diagnosing and troubleshooting of a computer with unknown problems, printer maintenance and troubleshooting.

Course content is aligned with the CompTIA A+ certification. Students who successfully pass this class are encouraged to pursue this valuable certification, but are not required to do so.

+NETWORKING SECURITY & FORENSICS (CR II) (HC6061)

GRADE 12

2 CREDITS

Academy: Business, Management & Technology

Pathway: Information Technology

Prerequisite: Successful completion of Computer Repair, LTCC application, and instructor approval.

After completing the Networking Security & Forensics curriculum, the successful student will have the knowledge and skill set to obtain an entry level position, such as a Network Technician. Content covered during this course includes the following, but is not limited to: installation and configuration of a local area network, identify network components and their function, create, configure and test patch cables, configure printers on a network.

Course content is provided through PCPro and NetPro software. In addition to covering the network curriculum, there will be an added emphasis on network security and computer forensics. Students who successfully pass this class are encouraged to pursue these valuable certifications, but are not required to do so.

EXPLORING TECHNOLOGY (HC6600)

GRADE 12

1 CREDIT

Academy: Business, Management & Technology

Pathway: Information Technology

Prerequisite: Application & Instructor approval. Computer Repair and in conjunction with Network Security and Forensics.

This class provides technical support for the Lebanon Technology and Career Center and covers additional materials beyond the curriculum of the Computer Networking program. Topics covered may include: programming in Visual Basic, network security, advanced networking techniques (routers), and configuring network devices.

COMPUTER SCIENCE PLTW-OVERVIEW

Project Lead the Way (PLTW) offers a dynamic Computer Science high school program that provides students with real-world learning and hands-on experience. Students interested in computer science, programming, gaming, cybersecurity, and other applied math and science arenas will discover PLTW is an exciting portal into these industries.

COMPUTER SCIENCE ESSENTIALS (PLTW) (HC6241)

GRADE 9, 10, 11, 12

1 CREDIT

Academy: Business, Management, & Technology

Pathway: Information Technology

In PLTW Computer Science Essentials, students will experience the major topics, big ideas, and computational thinking practices used by computing professionals to solve problems and create value for others. Students will use a visual programming language and advance to text-based programming. Throughout the course, students will have opportunities to apply computational thinking practices and collaborate just as computing professionals do to create products that address topics and problems important to them.

COMPUTER SCIENCE PRINCIPLES (PLTW) (HC6242)

GRADE 9, 10, 11, 12

1 CREDIT

Academy: Business, Management, & Technology

Pathway: Information Technology

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation.

COMPUTER SCIENCE A (PLTW) (HC6245)

GRADE 9, 10, 11, 12

1 CREDIT

Academy: Business, Management, & Technology

Pathway: Information Technology

Develop and publish your own original apps for Android™ mobile devices! Use state of the art development tools to design apps that can have an impact in their communities. Create apps using Java and XML that can fully utilize all capabilities of mobile devices. Dual credit is an option through MSU/West Plains for CSC 130.

CYBERSECURITY (PLTW) (HC6246)

GRADE 9, 10, 11, 12

1 CREDIT

Academy: Business, Management, & Technology

Pathway: Information Technology

Whether seeking a career in the growing field of cybersecurity or learning to defend their own personal data or a company's data, students in Cybersecurity establish an ethical code of conduct while learning to defend data in today's complex cyber world. It is recommended that you have either Project Lead The Way Computer Science Essentials or Computer Science Principles first.

HEALTH SERVICES

PLTW BIOMEDICAL SCIENCE PATHWAY-OVERVIEW

The rigorous and relevant four-course PLTW Biomedical Science sequence allows students to investigate the roles of biomedical professionals as they study the concepts of human medicine, physiology, genetics, microbiology, and public health. Working with the same equipment and tools used by lab professionals, PLTW Biomedical Science students are empowered to explore and find solutions to some of today's most pressing medical challenges. Students examine the structures and interactions of human body systems and explore the prevention,

diagnosis, and treatment of disease, all while working collaboratively to understand and design solutions to the most pressing health challenges of today and the future; and in the process, learn in-demand, transferable skills like critical thinking and communication.

Each course in the Biomedical Science sequence build on the skills and knowledge students gain in the preceding courses. LTCC and LHS offer the three PLTW Biomedical Science foundation courses plus offer the capstone course their senior year allowing students the opportunity to enroll all 4 years of high school.

PRINCIPLES OF BIOMEDICAL SCIENCE (PBS) (HC6109)

GRADE 9 (10 with approval) 1 CREDIT

Academy: Health Services

Pathway: Health Science

In this course, students explore concepts of biology and medicine as they take on roles of different medical professionals to solve real-world problems. Over the course of the year, students are challenged in various scenarios including investigating a crime scene to solve a mystery, diagnosing and proposing treatment to patients in a family medical practice, to tracking down and containing a medical outbreak at a local hospital, stabilizing a patient during an emergency, and collaborating with others to design solutions to local and global medical problems. It is expected that all incoming freshmen in the PLTW Biomedical Program participate in HOSA: Future Health Professionals. HOSA stands for Health Occupation Students of America and is the Career Technical Student Organization (CTSO) for the Biomedical program. The mission of HOSA is to empower HOSA-Future Health Professionals to become leaders in the global health community through education, collaboration, and experience. The cost to be a member of HOSA is \$20.

HUMAN BODY SYSTEMS (HBS) (HC6108)

GRADE 10, 11 1 CREDIT

Academy: Health Services

Pathway: Health Science

Prerequisite: Passing grade in PBS (Principles of Biomedical Science)

Students examine the interactions of human body systems as they explore identity, power, movement protections, and homeostasis. Exploring science in action, students build organs, and tissues on MANIKEN® skeletal models: use data acquisition software to monitor body functions, such as muscle movement, reflex and voluntary actions, and respiration, and take on the roles of biomedical professionals to solve real-world medical cases.

***MEDICAL INTERVENTIONS (MI) (HC6105)**

GRADE 11, 12 1 CREDIT

Academy: Health Services

Pathway: Health Science

Prerequisite: Passing grade in HBS (Human Body Systems) and PBS (Principles of Biomedical Science)

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection, screen and evaluate the code of human DNA; evaluate cancer treatment options, and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

BIOMEDICAL INNOVATIONS (HC6106)

GRADE 11, 12 1 CREDIT

Academy: Health Services

Pathway: Health Science

Prerequisite: Completion of Principles of Biomedical Sciences (PBS), Human Body Systems (HBS) and Medical Interventions (MI) or completion of PBS and HBS and concurrent enrollment in MI.

In this capstone course, students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21st century

as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project and may work with a mentor or advisor from a university, hospital, physician's office, or industry. Throughout the course, students are expected to present their work to an adult audience that may include representatives from the local business and healthcare community.

HUMAN SERVICE

INTERNATIONAL FOODS (HC6512)

GRADE 9, 10

½ CREDIT

Academy: Human Services

Pathway: Hospitality & Tourism

Prerequisite: Passing grade in Introduction to Foods and instructor approval.

Experience a variety of foods prepared from a cultural and ethnic viewpoint. This semester class will focus on the cultural development and preparation techniques of cuisines around the world. As part of this class you will learn to prepare regional cuisine of the United States, Europe, and Mediterranean countries, the Middle East, Africa and Asia. Student leadership and competitive events (FCCLA) may be integrated into this course.

INTRODUCTION TO FOODS (HC6511)

GRADE 9, 10

½ CREDIT

Academy: Human Services

Pathway: Hospitality and Tourism

This is an introductory course to the art of cooking. This class is a prerequisite to Nutrition and Wellness, International Foods, and Restaurant Management courses: you will need to maintain a C average in this class to be considered for those courses. Through this course you will learn the basics of safety and sanitation, nutrition, equipment, careers, and reading recipes.

You will be learning about the basics of culinary arts through the use of text, research with the internet, and through practical activities which will be performed through food labs. Sanitation and safety are necessary to the success in the food lab along with participation. Each person will be required to participate with a small group of your peers in the food labs. All will have specific tasks that will need to be accomplished for all to succeed. Student leadership and competitive events (FCCLA) may be integrated into this course.

NUTRITION AND WELLNESS (HC6570)

GRADE 9, 10

½ CREDIT

Academy: Human Services

Pathway: Hospitality & Tourism

Prerequisite: Passing grade in Introduction to Foods and instructor approval.

Like to eat? Need to gain or lose weight: Then this class will help you to understand the principles of nutrition; the relationship of nutrition to health and well-being; the selection, preparation, care of food. This will teach you to get the most from your food dollar. This class does include food preparation labs. Student leadership and competitive events (FCCLA) may be integrated into this course.

+CULINARY ARTS I (PROSTART I) (Dual Credit) (HC6583)

GRADE 11, 12

3 ½ CREDITS

Academy: Human Services

Pathway: Hospitality & Tourism

Prerequisite: Application and approval by instructor.

The class prepares students for employment in the service industry. We will practice sanitation, demonstrate safety, prepare and store food, learn to serve guests. Prepare sauces, fruits and vegetables and develop leadership through Family, Career and Community Leaders of America (FCCLA) and SkillsUSA. This program is sponsored by the National Restaurant Association for High school juniors or seniors. Dual credit through Missouri

State University/West Plains HRA 210 & 218. Student leadership and competitive events (FCCLA) may be integrated into this course.

+CULINARY ARTS II (PROSTART II) (Dual Credit) (HC6594)

GRADE 12 **3 ½ CREDITS**

Academy: Human Services

Pathway: Hospitality & Tourism

Prerequisite: Application and approval by instructor.

The class is a continuation of Pro Start 1 Students will receive advanced training in the food-service industry, economics, and practice sanitation, demonstrate safety. This class includes the culinary arts aspects of the industry with focuses on restaurant management and job training, we focus on cost control; baking, working with meat, fish and poultry. The curriculum is designed by the National Restaurant Association and includes a NRA certification. Dual credit through Missouri State HRA 321. Student leadership and competitive events (FCCLA) may be integrated into this course.

CHILD DEVELOPMENT I (HC6500)

GRADE 9, 10, 11, 12 **½ CREDIT**

Academy: Human Services

Pathway: Human Services

This course focuses on the intellectual, social, emotional, and biological development of children ages birth-2 years of age. It includes instruction in parent-child relations, parenting practices, special needs of children, parental and environmental influences on child development, external support services, and related public policy issues. Student leadership and competitive events (FCCLA) may be integrated into this course.

CHILD DEVELOPMENT II (HC6501)

GRADE 9, 10, 11, 12 **½ CREDIT**

Academy: Human Services

Pathway: Human Services

Prerequisite: Passing grade in Child Development I

This course focuses on the intellectual, social, emotional, and biological development of children ages 3-6 of age. It includes instruction in parent-child relations, parenting practices, special needs of children, parental and environmental influences on child development, external support services, and related public policy issues. Student leadership and competitive events (FCCLA) may be integrated into this course.

CHILD DEVELOPMENT III/INTRO TO CAREERS IN CHILD DEVELOPMENT (HC6502)

GRADE 10, 11, 12 **1 CREDIT**

Academy: Human Services

Pathway: Human Services

Prerequisite: Passing grade in Child Development II

This course provides advanced study in child development and guidance, including the physical, social, and intellectual development of children. Actual experience in supervising children provides the opportunity to improve parenting skills, explore careers related to child development, and identify general employment skills. Student leadership and competitive events (FCCLA) may be integrated into this course.

INTERPERSONAL RELATIONSHIPS (HC6525)

GRADE 9, 10, 11, 12 **½ CREDIT**

Academy: Human Services

Pathway: Human Services

This course prepares individuals to understand the nature, function, and significance of human relationships within the family/individual unit. It includes instruction in the concepts and principles related to various family living conditions; establishment and maintenance of relationships; and preparation for marriage, parenthood, and family life. Instruction emphasizes the uniqueness of families and individuals, the development and

socialization of the individual, and meeting the needs and interests of individuals and family members. Student leadership and competitive events (FCCLA) may be integrated into this course.

FAMILY AND INDIVIDUAL HEALTH (HC6535)

GRADE 9, 10, 11, 12 **½ CREDIT**

Academy: Human Services

Pathway: Human Services

This course meets the needs of today's students and focuses on the promotion of personal and family health throughout the life span. It includes concepts in communicable diseases, family relations, substance abuse, nutrition, sports nutrition, fitness and other concerns pertaining to the development of personal and family health. Career opportunities in health-related fields are investigated. Family/Individual standards are aligned to the National Health Education Standards. Meets 0.5 health credit graduation requirement. Student leadership and competitive events (FCCLA) may be integrated into this course.

FAMILY/CONSUMER RESOURCE MANAGEMENT (HC6562)

GRADE 9, 10, 11, 12 **½ CREDIT**

Academy: Human Services

Pathway: Human Services

This course prepares individuals to understand the values, need, wants, goals, and resources that enable youths and adults to make rational decisions that contribute to family stability and quality of life. It includes instruction in budgeting and spending plans, use of credit, savings, investments, taxes, consumer buying, and consumer rights and responsibilities. Student leadership and competitive events (FCCLA) may be integrated into this course.

HUMAN DEVELOPMENT (HC6526)

GRADE 9, 10, 11, 12 **½ CREDIT**

Academy: Human Services

Pathway: Human Services

Human Development introduces the developmental stages of individuals across the lifespan. Students will study biological, cognitive, and social/emotional developmental changes of the individual in the context of the family and society. It emphasizes and demonstrates the vital connections between theory, research, and application. Student leadership and competitive events (FCCLA) may be integrated into this course.

FASHION AND INTERIOR DESIGN FUNDAMENTALS (HC6555)

GRADE 9, 10, 11, 12 **1 CREDIT**

Academy: Human Services

Pathway: Human Services

This course is designed for the student interested in a career in fashion apparel, textiles or interior design. In this course students will obtain a foundation in the knowledge needed for more advanced studies of fashion apparel, textiles or interior design. Students will cover the basics of the physical, psychological, social and cultural reasons for how we dress and where we live, the elements and principles of design, textiles, fabric construction and selection for apparel and home use, introductory sewing skills that are applied in a variety of samples and apparel or home goods projects. Self-initiative, motivation, time management, planning, independent work, following directions and evaluating are crucial skills in this course where art, communication, mathematics, science and technology are applied. Student leadership and competitive events (FCCLA) may be integrated into this course.

FASHION DESIGN CONSTRUCTION (HC6558)

GRADE 10, 11, 12 **½ CREDIT**

Academy: Human Services

Pathway: Human Services

Prerequisite: Fashion and Interior Design Fundamentals

This course is designed for the student interested in a career in fashion apparel, textiles or interior design. In this course students will obtain a foundation in the knowledge needed for more advanced studies of fashion apparel,

textiles or interior design. Students will cover the basics of the physical, psychological, social and cultural reasons for how we dress and where we live, the elements and principles of design, textiles, fabric construction and selection for apparel and home use, introductory sewing skills that are applied in a variety of samples and apparel or home goods projects. Self-initiative, motivation, time management, planning, independent work, following directions and evaluating are crucial skills in this course where art, communication, mathematics, science and technology are applied. Student leadership and competitive events (FCCLA) may be integrated into this course.

INTERIOR DESIGN ADVANCED (HC6556)

GRADE 10, 11, 12

½ CREDIT

Academy: Human Services

Pathway: Human Services

Prerequisite: Fashion and Interior Design Fundamentals

This course develops a more advanced knowledge and application of interior design skills. Projects on the following may be explored: housing/furniture styles, design and architecture, hand drawn floor plans, computer-aided design (CAD), remodeling and career related occupations. Self-initiative, motivation, time management, planning, independent work, following directions and evaluating are crucial skills in this course which art, communication, mathematics, science and technology are applied. Student leadership and competitive events (FCCLA) may be integrated into this course.

INDUSTRIAL & ENGINEERING TECHNOLOGY

EXPLORING TRADES (HC6407)

GRADE 10

½ CREDIT

Academy: Industrial & Engineering Technology

Pathway: Introductory course to various Pathways

This course is designed to give sophomores the opportunity to explore several of the trade and industry classes that are available in Lebanon Technology and Career Center. Students will do career exploration, learn about SkillsUSA, power tools and hand tools. Then students will get to spend a total of about 3 weeks in each of the program areas learning what each is all about. The program areas being studied are Automotive Technology, Collision Refinishing & Repair, Construction Technology, Machine Technology, and Welding Technology.

+CONSTRUCTION TECHNOLOGY I (HC6417)

GRADE 11, 12

3 ½ CREDITS

Academy: Industrial & Engineering Technology

Pathway: Architecture & Construction

Prerequisite: Application & approval by instructor.

This course prepares students to enter an entry-level position as a construction technology assistant and provides them with a foundation of knowledge to pursue and advance in the carpentry field of education. Students cover the following topics: basic carpentry, safety, measurement, tools, fasteners, blueprint reading, site work, residential form carpentry, residential frame carpentry, residential exterior-finish carpentry, residential interior-finish carpentry, masonry light commercial build construction, and job-seeking skills. Approximately 70% of this course is spent performing lab activities related to construction applications. Appropriate personal wear including safety glasses, safety shoes, and/or uniforms may be required for lab activities.

+CONSTRUCTION TECHNOLOGY II (HC6419)

GRADE 12

3 ½ CREDITS

Academy: Industrial & Engineering Technology

Pathway: Architecture & Construction

Prerequisite: Passing grade in Building Trades I, Application & Approval by Instructor.

This is an advanced course in carpentry. Students will receive further instruction in the techniques of frame construction, selection of materials, reading work drawings, concrete forming, cost estimates, masonry, light commercial building construction, metal building construction and use and care of tools utilized in the carpentry

field. Students will also be exposed to roofing, siding, insulation and waterproofing techniques, residential lighting/electrical systems, masonry residential flooring, and cabinetry installation. Approximately 70% of this course is spent performing lab activities related to construction applications. Appropriate personal wear including safety glasses, safety shoes, and /or uniforms may be required for lab activities. Second year students have the opportunity to participate in an internship program during the last semester of their second year in the program.

INTRODUCTION TO MACHINE TECHNOLOGY (HC6445)

GRADES 9, 10

1 CREDIT

Academy: Industrial & Engineering Technology

Pathway: Manufacturing

This hands-on class introduces the basic theories and concepts used in the machining field. Students will learn basic concepts of both manual and Computer Numerical Control (CNC) Machining. Students will work on both manual and CNC vertical machining center and lathe. While learning the machines, students will also get to experience basic three dimensional solid modeling. The software and techniques taught in this class are used in every type of field around the world. Topics include shop safety, overview of machining center, feeds and speeds, cutting tool materials, planning the part, tool selection, basic machining principles. Students will make basic projects that incorporate several different areas of machining. This course is for the student that is considering a career in manufacturing or engineering.

+COMPUTER AIDED DRAFTING FOR MACHINING (CAD) (Dual Credit) (HC6457)

GRADES 10, 11, 12

1 CREDIT

Academy: Industrial & Engineering Technology

Pathway: Manufacturing

Prerequisite: LTCC application and instructor approval.

Create real pictures of real objects on your computer. This course studies a three dimensional solid modeling program common in many industries today. Three-Dimensional programs are used in industries such as, automobile, aerospace, household appliance, medical equipment, fire apparatus, and many others. The course emphasizes mechanical design principles using the CAD system, as well as basic engineering. The student will design their own projects as well as projects for others. This course is for the student that is interested in the engineering field as it will introduce some basic concepts involving problem solving and critical thinking. Math, science and communication skills are encouraged. Dual Credit through Missouri State University/West Plains TEC 111.

COMPUTER AIDED MANUFACTURING (CAM) (Dual Credit) (HC6452)

GRADES 11, 12

1 CREDIT

Academy: Industrial & Engineering Technology

Pathway: Manufacturing

Prerequisite: Successful completion of CAD for Machining

This course includes 3-D part design, but a larger part of this class will be on the integration of these designs and the control of CNC machines. Topics include 3-D design, blueprints, part planning, cutter selection, feeds and speeds. Dual Credit through Missouri State University/West Plains TEC 165.

+COMPUTER NUMERICAL CONTROL I (CNC I) (Dual Credit) (HC6441)

GRADES 10, 11, 12

2 CREDITS

Academy: Industrial & Engineering Technology

Pathway: Manufacturing

Prerequisite: LTCC application and instructor approval.

This hands-on class introduces the pre-engineering or machining student to the practical use of engineering design. Students will work on a CNC vertical machining center and a CNC lathe. Topics include shop safety, overview of machining center, feeds and speeds, cutting tool materials, planning the part, tool selection, basic milling principles, tooling offset, canned cycles, set up, cutting fluids, and an overview of programming fundamentals (G and M codes). Dual Credit through Missouri State University/West Plains TEC 165.

+=COMPUTER NUMERICAL CONTROL II (CNC II) (Dual Credit) (HC6444)

GRADES 11, 12

2 CREDITS

Academy: Industrial & Engineering Technology

Pathway: Manufacturing

Prerequisite: Successful completion of (CNC I) Computer Numerical Control I. LTCC application and instructor approval.

This hands-on course gives students a chance to further explore the use of CNC machines to create more advanced parts. The training will include Shop safety, fixture design and building, the use of carbide tooling, and multiple set-up parts. Dual Credit through Missouri State University/West Plains TEC 111.

+=WELDING TECHNOLOGY I (HC6463)

GRADE 11, 12

3 ½ CREDITS

Academy: Industrial & Engineering Technology

Pathway: Manufacturing

Prerequisites: LTCC application & instructor approval.

Welding is a dynamic industry with a BIG FUTURE! Anything made of metal, no matter how big or small, can be welded. Examples are everywhere, from vehicles like cars, trucks and motorcycles to rail cars, ships, aircraft, rockets and space stations. Construction is a huge market, and skyscrapers, bridges and highways would be impossible to build without welding, as would oil and natural-gas pipelines, offshore oil platforms, giant wind turbines and solar panels. Welders help install and maintain boilers antipollution systems and other large structures, as well as piping for industrial, commercial and residential facilities. Welding is even used by artists to create sculptures and decorative items. Welders are craftsmen and women who have hands-on skills to do a professional job. (www.careersinwelding.com) Welding is the most common way to join metal parts. Students learn information related to safety, gases, Filler materials, and equipment set-up for OAW-C (gas), SMAW (stick), and GMAW (MIG). Students will learn advantages of using these types of welding and the hands-on procedures for these processes. Students will have the opportunity to earn a G1 certification in SMAW and GMAW.

Appropriate personal wear including safety glasses, safety shoes, and clothing will be required for activities.

+=WELDING TECHNOLOGY II (HC6467)

GRADE 12

3 ½ CREDITS

Academy: Industrial & Engineering Technology.

Pathway: Manufacturing

Prerequisite: Passing grade in Welding Technology I. LTCC application and instructor approval.

This is a continuation of Welding I including information related to safety, gases, filler materials, and equipment set-up for GTAW (TIG) and FCAW (flux core) with more advanced training on previous processes. Students will receive further instruction in welding on plate and pipe, more detailed blueprint reading, welding symbols, metallurgy, welding codes and manufacturing skills for the welding industry. Possible opportunities for internships are available. Appropriate personal wear including safety glasses, safety shoes, and clothing will be required for activities.

ROBOTICS (HC6189)

GRADE 9, 10

½ CREDIT

Academy: Industrial & Engineering Technology

Pathway: Manufacturing or Science, Technology, Engineering, & Math

Students will explore the basic world of robotic engineering. Computations incorporating C programming, motors, sensors, manipulating arms, and mechanical devices are used to create various robots designed for specific purposes. Robots are built using the VEX robotics system. Students interested in computer science, engineering, or technical manufacturing are encouraged to enroll in this course. Students may enhance their skills and robot development through competitions associated with the LHS/LTCC Robotics Club.

PLTW ENGINEERING PATHWAY-OVERVIEW

PLTW Engineering is more than just another high school engineering program. It is about applying science, technology, engineering, and math through a project-based, hands-on approach to solve complex, open-ended problems in a real-world contest. Students focus on the process of defining and solving problem, not on getting the “right” answer. They learn how to apply STEM knowledge, skills, and habits of mind to make the world a better place through innovation.

PLTW students say that PLTW Engineering influenced their post-secondary decisions and helped shape their future, PLTW students are shown to study engineering and other STEM disciplines at a rate significantly higher than their non-PLTW peers.

Even for students who do not plan to pursue engineering after high school, the PLTW Engineering program provides opportunities to develop highly transferable skills in critical thinking, collaboration, and problem solving, which are relevant for any coursework or career.

To complete the PLTW Engineering program students will take a math and science course each year as well as: Intro to Engineering Design 9th, Principles of Engineering 10th, Civil Engineering & Architecture, 11th or Digital Electronics and Engineering Design & Development 12th.

INTRODUCTION TO ENGINEERING DESIGN (IED) (HC6449)

GRADE 9, 10, 11, 12

1 CREDIT

Academy: Industrial & Engineering Technology

Pathway: Science, Technology, Engineering & Mathematics

Prerequisite: Passing grade in Algebra I or concurrently enrolled in Algebra I.

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software and use an engineering notebook to document their work. IED gives students the opportunity to develop skills and understanding of course concepts through activity, project, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB learning challenges students to continually hone their interpersonal skills, creative abilities, and problem solving skills based upon engineering concepts. Students will develop problem-solving skills and apply their knowledge or research and design to create solutions to various challenges that increase in difficulty throughout the course. The course assumes no previous knowledge, but students should be concurrently enrolled in college preparatory mathematics and science.

PRINCIPLES OF ENGINEERING (POE) (Dual Credit) (HC6448)

GRADE 10, 11, 12

1 CREDIT

Academy: Industrial & Engineering Technology

Pathway: Science, Technology, Engineering & Mathematics.

Prerequisite: Must have passing grade in Introduction to Engineering Design (IED) or instructor approval.

Principles of Engineering (POE) is a course of engineering, exposing students to some of the major concepts that they will encounter in a postsecondary engineering course of study. Students have an opportunity to investigate engineering and high tech careers. POE gives students the opportunity to develop skills and understanding of course concepts through activity, project and problem-based (APPB) learning. Used in combination with a teaming approach, APPB learning challenges students to continually hone their interpersonal skills, creative abilities, and problem solving skills, based upon engineering concepts. It also allows students to develop strategies to enable and direct their own learning, which is the ultimate goal of education. Dual credit is an option through MSU/West Plains for EGR 110.

DIGITAL ELECTRONICS (DE) (HC6447)

GRADE 11, 12

1 CREDIT

Academy: Industrial & Engineering Technology

Pathway: Science, Technology, Engineering & Mathematics

Prerequisite: Completed and passed Introduction to Engineering and Principles of Engineering or instructor approval

From smartphones to high definition televisions, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study

topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices. Students who have not taken Introduction to Engineering and Principles of Engineering will need instructor/administrator permission to enroll.

CIVIL ENGINEERING & ARCHITECTURE (CEA) (HC6458)

GRADE 11, 12

1 CREDIT

Academy: Industrial & Engineering Technology

Pathway: Science, Technology, Engineering & Mathematics

Prerequisite: Passing grade in IED & POE or instructor approval

Civil Engineering and Architecture is the study of the design and construction of residential and commercial building projects. The course includes an introduction to many of the varied factors involved in building design and construction including building components and systems, structural design, stormwater management, site design, utilities and services, cost estimation energy efficiency, and careers in the design and construction industry.

Civil Engineering and Architecture is one of five specialization courses in the Project Lead the Way (PLTW) high school pre-engineering program. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology.

ENGINEERING DESIGN & DEVELOPMENT (EDD) Capstone Course (HC6459)

GRADE 12

1 CREDIT

Academy: Industrial & Engineering Technology

Pathway: Science, Technology, Engineering & Mathematics

Prerequisite: Passing grades in IED, POE, and CEA, or DE.

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

+AUTOMOTIVE TECHNOLOGY I (HC6403)

GRADE 11, 12

3 ½ CREDITS

Academy: Industrial & Engineering Technology

Pathway: Transportation, Distribution & Logistics.

Prerequisite: Application & approval by instructor.

The purpose of this program is to provide students with inspection, repair, and diagnostic skills to obtain employment in the automotive service industry. The class teaches skills based on the automotive industry standards for Automotive Service Excellence. Students will receive instruction in the following areas: automotive safety practices, automotive tools and equipment, electrical manual transmission and drive axels, brake systems, suspension systems, steering systems, and hydraulic systems. Appropriate personal wear including safety glasses, safety shoes, and/or uniforms may be required for lab activities.

+AUTOMOTIVE TECHNOLOGY II (HC6405)

GRADE 12

3 ½ CREDITS

Academy: Industrial & Engineering Technology

Pathway: Transportation, Distribution & Logistics.

Prerequisite: Passing grade in Automotive Technology I, application & approval by instructor.

The purpose of this program is to provide students with advanced inspection, repair, and diagnostic skills to obtain employment in the automotive service industry. The class teaches skills based on the automotive industry for Automotive Service Excellence. Students will receive instruction in the following areas: automotive safety practices, electrical system diagnosis, battery diagnosis and service, starting systems, charging systems, lighting systems, gauges, and electrical accessories. ignition systems, fuel and exhaust systems, emission control systems, engine diagnosis, cylinder head and valve train diagnosis and repair, short block diagnosis and repair (if time allows), lubrication and cooling systems, air conditioning and heating systems. Appropriate personal wear including safety glasses, safety shoes, and/or uniforms may be required for lab activities. Second year students have

the opportunity to participate in an internship program during the last semester of their second year in the program. Students will also plan and prepare for the annual car show.

+=COLLISION REPAIR I (HC6423)

GRADE 11, 12

3 ½ CREDITS

Academy: Industrial & Engineering Technology

Pathway: Transportation, Distribution and Logistics.

Prerequisite: Complete a LTCC application and approval by instructor.

The course involves instruction and application in auto body repair including restoration of original contours of metal, replacing irreparable body parts, and final paint finish surface preparation. Students will also be introduced to related automotive repairing services such as glass and trim replacement, lock and window machine repair, automobile refinishing, complete detail, and clean up. Appropriate personal wear including safety glasses, safety shoes, and/or uniforms may be required for lab activities.

+=COLLISION REPAIR II (HC6425)

GRADE 12

3 ½ CREDITS

Academy: Industrial & Engineering Technology

Pathway: Transportation, Distribution and Logistics

Prerequisite: Passing grade in Collision Repair I. LTCC application and approval by instructor.

This course expands upon the course contents of Collision Repair I to include writing damage reports in logical sequence, MIG and oxyacetylene welding, plastics repair, corrosion protection, interior and exterior fasteners, and airbags and supplemental restraint systems. Appropriate personal wear including safety glasses, safety shoes, and/or uniforms may be required for lab activities. Second year students have the opportunity to participate in an internship program during the last semester of their second year in the program.

NATURAL RESOURCES/AGRICULTURE

Agriculture Pathways are followed by students who wish to complete an agriculture program. This includes taking consecutive agriculture classes each year with passing grades EACH semester. Exceptions can be approved by agriculture instructors. Agriculture classes are required in order to be a member of FFA.

AGRICULTURAL SCIENCE (HC6382)

GRADE 9, 10, 11

1 CREDIT

Academy: Natural Resources Agriculture

Pathway: Intro to all Agricultural Pathways

Agricultural Science introduces students to agricultural opportunities and the pathways of study in agriculture. Science, mathematics, reading, and writing components are woven in the context of agriculture and students will use the introductory skills and knowledge developed in this course. Throughout the course are activities to develop and improve employability skills of students through practical applications. Students explore career and post-secondary opportunities in each area of the course.

ANIMAL SCIENCE (HC6360)

GRADE 10, 11

1 CREDIT

Academy: Natural Resources Agriculture

Pathway: Animal Science

Prerequisite: Passing grade in Agriculture Science I

This course studies the entire field of animal agriculture and the science of the production of those animals. Units of study include but not limited to the nutrition, reproduction, health, anatomy and selection of horses, cattle, swine, sheep and small domestic animals. This class will also continue the use of the MO FFA/SAE Record book and Leadership development opportunities/activities. Appropriate personal safety wear will be required for this course. Safety glasses, safety shoes and/or uniforms may be required for lab activities.

ADVANCED LIVESTOCK (HC6300)**GRADE 11, 12****1 CREDIT**

Academy: Natural Resources Agriculture

Pathway: Animal Science

Prerequisite: Passing grade in Agriculture Science & Animal Science. Instructor permission.

This class includes the study of beef, dairy, swine, sheep, horse, and poultry production. Units include selection, nutrition, reproduction, and health care. There is an emphasis on hands-on learning with the use of the FFA Learning Center. Each student is encouraged to have a market animal to show at the Laclede County Fair the following summer. This class will also continue the use of the MO FFA/SAE Record book and Leadership development opportunities/activities. Appropriate personal wear including safety glasses, safety shoes, and/or uniforms may be required for lab activities.

AGRICULTURAL MECHANICAL SYSTEMS (HC6350)**GRADE 10, 11****1 CREDIT**

Academy: Natural Resources Agriculture

Pathway: Power, Structural and Technical Systems

Prerequisite: Passing grade in Agriculture Science I

This course includes various aspects of mechanical systems related to agriculture. Specific topics of study include welding, oxy/acetylene cutting and welding, carpentry, tool identification, plumbing, concrete, electricity, electric motors, tractor power, small gas engines, machinery and surveying. Hands-on emphasis will be included through knowledge based instruction. This class will also continue the use of the MO FFA/SAE Record book and Leadership development opportunities/activities. Appropriate personal safety wear will be required for this course.

AGRICULTURAL CONSTRUCTION I (HC6320)**GRADE 11, 12****1 CREDIT**

Academy: Natural Resources Agriculture

Pathway: Power, Structural and Technical Systems.

Prerequisite: Passing grades in Agriculture Science & Agricultural Mechanical or instructor permission.

This course gives students the opportunity to use power equipment to build medium sized metal and/or wood projects. This course also develops skills such as welding, oxy/acetylene cutting, and precision craftsmanship to build quality projects. Students will further their leadership skills and SAE project while enrolled in this course. Appropriate personal safety wear will be required for this course. Safety glasses, safety shoes, and/or uniforms may be required for lab activities. This class will also continue the use of the MO FFA/SAE Record book and Leadership development opportunities/activities.

AGRICULTURAL CONSTRUCTION II (HC6340)**GRADE 12****1 CREDIT**

Academy: Natural Resources Agriculture

Pathway: Power, Structural and Technical Systems.

Prerequisite: Passing grades in Agriculture Science, Agriculture Mechanics & Agricultural Construction I or by instructor permission.

This course gives students the opportunity to build medium to large sized metal and/or wood projects. Students will develop skills on drawing plans to scale, bill of materials and estimating cost analysis. This course also develops advanced skills in welding oxy/acetylene cutting, and precision craftsmanship to build high quality projects. Students will further their leadership skills and SAE project while enrolled in this course. Appropriate personal safety wear will be required for this course. Safety glasses, safety shoes, and/or uniforms may be required for lab activities. This class will also continue the use of the MO FFA/SAE Record book and Leadership development opportunities/activities.

CONSERVATION NATURAL RESOURCES (HC6305)**GRADE 10, 11, 12****1 CREDIT**

Academy: Natural Resources Agriculture

Pathway: Natural Resources and Environmental Systems

Prerequisite: Passing grade in Agriculture Science.

This course will provide opportunity for students to gain knowledge and skills in natural resource conservation. Units may include but not limited to the following: natural resource conservation, Missouri fish and wildlife, forestry management and lifetime outdoor sports/activities. This class will also continue the use of the MO FFA/SAE Record book and Leadership development opportunities/activities. Appropriate personal safety wear will be required for this course. Safety glasses, safety shoes and/or uniforms may be required for Lab activities.

NURSERY & LANDSCAPE MANAGEMENT (Dual Credit) (HC6372)

GRADE 10, 11, 12

1 CREDIT

Academy: Natural Resources Agriculture

Pathway: Natural Resources and Environmental Systems

Prerequisite: Passing grade in Agriculture Science.

This course will cover the basics of landscaping including greenhouse operation, the identification of plants, and the landscape process. Units of study will include but not limited to the following: soil science, plant growth, horticulture, lawn care, turf, landscape management and tree management. This course will offer several hands-on opportunities for students at school, the LTCC/FFA Learning Center and within Lebanon the community. This class will also continue the use of the MO FFA/SAE Record book and Leadership development opportunities/activities. Appropriate personal safety wear will be required for this course. Safety glasses, safety shoes and/or uniforms may be required for lab activities. Dual credit is an option through MSU-WP for AGR 170 for 3 credit hours and AGR 172 for 1 credit hour.

AGRICULTURAL BUSINESS AND ECONOMICS (HC6310)

GRADE 11, 12

1 CREDIT

Academy: Natural Resources Agriculture

Pathway: Agriculture Capstone Course

Prerequisite: This course is recommended as a Capstone Course for Agricultural students in any of the Pathways associated with the Academy of Natural Resources Agriculture. Prerequisites include a passing grade in Agriculture Science and a passing grade in at least one of the following additional courses: Nursery & Landscaping Management, Animal Science, Agriculture Mechanical Systems, Conservation Natural Resources or by instructor permission. Preferred prerequisite in addition to prerequisites include Advanced Livestock, Ag Foods & Technology, or Construction I.

Students learn about agricultural businesses and financing those operations. Basic economics and marketing will be part of the course content. Units covered include financial record keeping and basic business structures. Marketing options including the future and cash markets will also be taught. Students learn personal and employability skills that will make them more competitive for the workforce. This class will also continue the use of the MO FFA/SAE Record book and Leadership development opportunities/activities. Appropriate personal safety wear will be required for this course. Safety glasses, safety shoes and/or uniforms may be required for lab activities.

SUPERVISED AGRICULTURAL COOPERATIVE EDUCATION PROGRAM (HC8500)

GRADE 11, 12

1 CREDIT

Academy: Natural Resources Agriculture

Prerequisite: Three (3) courses in the Agriculture Education prior to requesting enrollment, interview.

The Supervised Agricultural Cooperative Education Program is a workplace learning experience, which is an extension of the business education classroom. Supervised Agricultural Cooperative Education Program training is designed for students in approved business education programs currently enrolled in a course such as Business Technology, Accounting II, and Network Administration. The Supervised Agricultural Cooperative Education Program provides on-the-job work experience that gives students the opportunity to master academic and workplace skills. Students can make the connection with real world expectations in terms of accuracy of work, production, staying on task, responsibility for work—all components which are stressed in the classroom setting. The work experience reinforces the importance of interpersonal skills, which gives students a forum to develop positive

workplace experiences as they enter the workforce or prepare for continued education. The Supervised Agricultural Cooperative Education Program facilitates the transition from the classroom to the workplace.

LTCC APPLICATION

[LTCC Application link](#)