

Livingston Central High School

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Course Offerings & Descriptions 2015-2016



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GRADUATION REQUIREMENTS

Standard Diploma

Area	
<i>Language Arts</i>	4 Credits (Eng. I, II, III, IV)
<i>Mathematics</i>	4 Credits (Algebra I, Algebra II, Geometry, and one math elective)
<i>Social Studies</i>	3 Credits (U.S. History, World Civilization, & American Government)
<i>Science</i>	3 Credits (Earth/Space, Biology, Chemistry)
<i>Health</i>	½ Credit
<i>Physical Education</i>	½ Credit
<i>Fine Arts</i>	1 Credit
<i>Academic Elective</i>	1 Credit (Language Arts, Math, Social Studies, or Science)
<i>Electives</i>	7 Credits (5 rigorous electives and 2 foreign language for pre-college)
<i>Computer Literacy</i>	1 Credit
Total	25 Credits

SAMPLE HONORS/AP COURSES: English 1 Acc., English 2 Acc., English 3 Acc., English 4 Acc./AP English IV, Honors Algebra 1, Honors Geometry, Honors Algebra 2, AP Calculus, AP Environmental Science, Honors Biology, AP U. S. History, AP Psychology, and AP Government.

***Note some courses may not offered annually (AP Calculus/AP Psychology, AP Environmental Science) depending on student request.**

*Pre-college science requirements must include chemistry or physics.

**Students shall complete all parts of the state assessment for the high school accountability grades, including an acceptable portfolio. (Board Policy #08.113)

***A TOTAL of only 5 credits (throughout a student's entire high school career) may be made up through a Credit Recovery course.

The Goal: Your Diploma

HOW TO GRADUATE WITH HONORS

To be an honor graduate, a student must complete the pre-college curriculum and have a cumulative GPA of 3.4. This requires the student to satisfactorily complete chemistry or physics. Also, two (2) foreign language credits must be completed in order to meet pre-college curriculum requirements. These two credits must be from the same language. Students earning a standard diploma and not seeking the pre-college curriculum are not required to take foreign language.

REQUIREMENTS FOR HIGHEST HONORS

To be eligible to be named the Valedictorian(s) and the Salutatorian(s), a student must complete the requirements of the Comprehensive Diploma. Meaning, students must complete all graduation requirements; however, English 2, 3, and 4 must be taken at the accelerated level. Students also must take an additional science and social studies course. The 12th grade student(s) with the highest cumulative GPA completing the requirements of the Comprehensive Diploma will be honored as Valedictorian(s). The 12th grade student(s) with the second highest cumulative GPA in the Senior Class who completes the Comprehensive Diploma will be recognized as Salutatorian(s).

Pictures in the yearbook will be based on three years of course work due to printing deadlines. For the purpose of establishing a student's final standing in his/her class, GPAs will be truncated. They will not be rounded up.

* For classes graduating in 2018 and beyond, the Valedictorian and Salutatorian must complete seven honors or Advance Placement courses. The comprehensive diploma requirement will no longer apply.

TESTING REQUIREMENTS

Students shall complete all parts of the unbridled learning assessment for the high school accountability grades, including acceptable required portfolios. All students shall complete a process writing in every course taken at LCHS. That writing must be scored at the apprentice level or higher in order to receive credit for the course.

Commencement Exercises

Graduation is held on the first Friday night following the last attendance day for students.

Only those students who have met graduation requirements will be allowed to participate in commencement exercises, seniors must:

- Complete all required courses and credits, or a non-diploma program.
- Order a cap and gown at the time designated by the principal.
- Attend the graduation practice session.
- Dress appropriately and exhibit proper behavior.
- Pay all fines, fees, etc., and complete all disciplinary assignments.

Seniors who complete their work during the following summer may receive diplomas in July but may not participate in the graduation exercise before the requirements are met.

Grading and Scheduling

CLASS LOAD

A student may earn up to 28 credits in his/her four years. Twenty-five credits are required for a graduation.

GRADE CLASSIFICATION

The promotion requirements are as follows: Sophomore- 6 credits, Junior- 13 credits, and Senior- 20 credits. Once established at the beginning of the school year, a student's grade level designation will remain the same for that entire school year.

GRADING SCALE

Students earn letter grades each nine weeks based on this scale:

90-100	A
80-89	B
70-79	C
60-69	D
Below 60	F

The final grade for the term in each course is figured for the cumulative GPA.

SCHEDULE CHANGES

Once classes are scheduled, changes are difficult to make because many classes have maximum enrollment. After final course selections have been made, changes may be considered only if the student:

- Has failed a required course.
- Is not enrolled in a course required for graduation.
- Demonstrates poor achievement in a prerequisite course and is advised by both the teacher and the counselor to change the class.

Scheduling conflicts, a lack of sufficient enrollment, or too many students in a class also may result in a schedule change.

Schedule changes will NOT be made because a student dislikes a particular class or its requirements. Careful thought should be given by both parents and students when choosing classes for the future school year.

No course changes will be made to a student's schedule after the first week of the new term without special permission from the administrative staff and guidance counselor with consultation with the teachers involved.

Schedule changes also will NOT be made to avoid certain teachers.

College Credit and Scholarship Programs

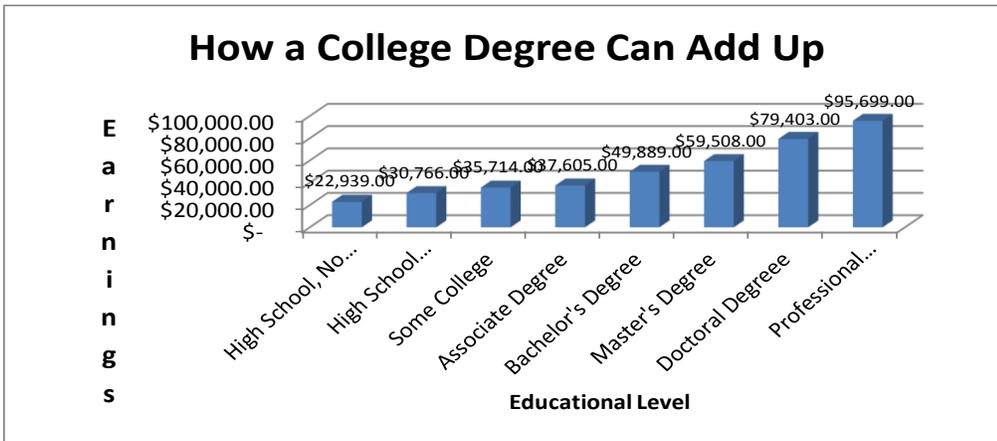
AP Students:

- Have a better chance of earning KEES money:
 - ACT Bonus-AP courses are shown to increase ACT scores.
 - Students eligible for free and reduced lunch may earn KEES money for qualifying scores on any AP exam.
 - KEES supplements include: \$200 for a score of 3, \$250 for a 4, and \$300 for a 5.
- Are more likely to keep their KEES awards in college, because AP students are shown to earn higher college GPA's, which are required to maintain KEES eligibility.
- Have increased college admission eligibility, because AP courses have been shown to help increase ACT test scores. Moreover, 93% of colleges Admissions Counselors say AP course experience is helpful when evaluating a candidate for admission.
- Have reduced college expenses, because colleges may award college credit for AP qualifying scores, which will save on tuition, books, and living expenses. See Kentucky campus AP policies at: <http://cpe.ky.gov/policies/ap.htm>
- Who earn college credit by one or more AP qualifying scores consistently outperform non-AP students in college.
- Have shown higher four-year college graduation rates than similar non-AP students
- Who earn AP scores of 3, 4, or 5 have been shown to be more likely to graduate from college, particularly African-American, Hispanic, and low-income students.

AP Courses at LCHS Eligible for AdvanceKentucky Incentives:

Math: Calculus
 Science: Environmental Science
 History: Government\Politics, US History, Psychology
 Language Arts: English Language

Advanced Placement Program (AP) courses give students the opportunity to take college-level courses while still in high school. Students who meet the pre-requisites and enroll in AP courses must take and pass the AP exam administered at the end of the year. The students will be required to pay the AP test fee at a designated time during the second semester of the year.



Students Can Earn College Credit in High School

Career pathways are useful in providing, counseling and assisting students in setting goals for high school graduation and further education. Career pathways do not limit choices since students may choose any electives they wish each year of high school if their interests change. At Livingston Central High School, dual enrollment and the earning of postsecondary credits while still in high school are offered in each career pathway.

Articulation agreements and dual credit programs exist between our high school and West Kentucky Community and Technical College and Murray State University, so that our students can earn college credit. This provides a great savings on college tuition and also allows students to complete their college education in a shorter time frame. Students may also qualify for college credit at most colleges and universities if they score a 3 or higher on an advanced placement (AP) exam. For more information on earnings college credits while still in high school, consults with a high school guidance counselor.

Keep in mind that students interested in earning dual credit must meet admission requirements set forth by the college issuing the credit. If a student does not meet those requirements, he or she may not be admitted to the college; therefore, no college credit will be awarded.

Governor's Scholars Program

The Governors Scholar program is a challenging five-week residential program hosted by varying Kentucky colleges. GSP is for outstanding Kentucky students completing their junior year in high school. Students must apply and be selected by the district selection committee to be considered for admission. They attend free of charge and are responsible for personal and incidental expenses only. There are no grades or credits given through participation in the program. The program fosters an environment where ideas are shared, discovery of learning takes place, and community is built within a diverse group of students. This program helps students achieve their academic and personal potential, develop creativity and critical thinking skills, and cultivate leadership capabilities. The academic program moves at an advanced level concentrating on concepts, theory, and discovery. **The PSAT and/or ACT is a prerequisite to apply for candidacy and should be taken during the freshmen and/or sophomore years. To be considered for the program, students must complete and submit the Student Nomination Packet to their guidance counselor.** The applications are generally available in November of each school year. For more information regarding the Governors Scholar Program, please contact your child's guidance counselor.

National Merit Scholarship Corporation

To qualify for the National Merit Scholarship Program, students must take the PSAT/NMSQT, which stands for Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test. The Preliminary SAT/National Merit Scholarship Qualifying Test is a co-sponsored program by the College Board and National Merit Scholarship Corporation (NMSC) This standardized test provides firsthand practice for the SAT Reasoning test. It also gives students a chance to enter the National Merit Scholarship Corporation (NMSC) scholarship programs. The PSAT/NMSQT measures critical reading skills, math problem-solving skills, and writing and skills. Your son or daughter has developed these skills over many years, both in and out of school. This test doesn't require recall of specific facts. The most common reasons for taking the PSAT/NMSQT are:

- To receive feedback on a student's strengths and weaknesses on skills necessary for college study. A student can then focus his or her preparation on those areas that could most benefit from additional study or practice.
- To see how a student's performance on an admissions test might compare with that of others applying to college.
- To enter the competition for scholarships for the National Merit Scholarship Corporation. (grade 10)

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- To help prepare for the SAT. A student can become familiar with the kinds of questions and the exact directions her or she will see on the SAT.
- To receive information from colleges when a student checks “yes” to student Search Service on the answer sheet.
- To meet qualifications for the Governor’s Scholars Program.

Individual Learning Plan

The Individual Learning Plan (ILP) is an academic and career plan for all students beginning in the sixth grade. The ILP helps students identify their educational and career goals as well as identify requirements for high school graduation. Students complete activities that provide them knowledge and skills needed to prepare for a successful career. The ILP also includes personal information about a student’s hobbies, interests, school and community activities, work experiences and awards, as well as, the names of people who may provide good references. Results of an interest inventory, a learning style inventory, and/or a career aptitude assessment, along with results of state assessments, ACT, SAT, or other assessments may also be included.

Each year the ILP will be review and updated. The student and advisor will collaborate on revisions and identify postsecondary goals to determine appropriate classes for the next year of school.

An electronic version of each student’s ILP is available online and can be accessed with the user ID and password that has been assigned to the student. This information can be obtained through the guidance department at Livingston Central High School.

Career Clusters

The Kentucky Department of Education uses fourteen (14) Career Clusters which were implemented in the late 1990's. Under these clusters, career majors were developed and implemented in all Kentucky-Tech schools and high schools in the state. Each student, beginning in the 6th grade will develop an individual learning plan (ILP) to develop a course of study for his/her high school years. This plan must be developed around one of the career clusters.

CAREER CLUSTER DESCRIPTIONS

Agriculture

Prepare and support individuals for careers, build awareness, and develop leadership for the food, fiber, and natural resource systems.

Arts & Humanities

Prepare individuals for creating, performing and conducting literary, artistic, entertaining, and sporting activities, or to explore man and his culture through the study of philosophy, religion, literature, or language.

Business & Marketing

Prepare individuals to perform managerial, research, and technical support functions of business and prepare individuals to plan and execute the buying, selling, promotion, and distribution of ideas, goods, and services.

Communications

Prepare individuals to apply technical knowledge and skills to efficiently communicate ideas and information.

Construction

Prepare individuals to apply technical knowledge and skills in the constructing, inspecting, and maintaining of structures and related properties.

Education

Prepare individuals for the practice of learning and teaching, and related search, administrative and support services.

Health

Prepare individuals to apply technical knowledge for skills for maintenance of health, prevention of illness, and care of the ill.

Human Services

Prepare individuals for employment in occupations that relate to families and human needs.

Information Technology

Prepare individuals to apply technical knowledge and skills in the rapidly growing occupational fields of computer networking, programming, digital media, support services and e-commerce/web design.

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CTE Career Majors

Career Majors-Increase student achievement as well as help students transition seamlessly into postsecondary education.

The following pages include a list of CTE Career Majors that are available for students to pursue at Livingston Central High School. Students can earn one or more Career Major Certificates in addition to their high school diploma. These Career Major Certificates will help build a strong portfolio a student can use when pursuing additional education or employment.

Today's students need to be:

- Critical thinkers and problem solvers
- Have excellent communication and digital literacy skills
- Master challenging core content

Career Majors:

- Increase student achievement and the number of students who complete postsecondary education.
- Increase high school motivation and achievement by helping students make the connection between what they are learning in school and success in future educational and employment opportunities.
- Help students better realize the relevance of education to their lives and set to work building futures that match their aspirations.

All students should have some idea of their likes, dislikes and aptitudes to help them determine where they are going after high school. Students also need an education and a career plan that transcends from high school into at least the first two years of postsecondary education or training to make sure they have their next steps planned after high school.

One of the biggest benefits of the career majors is helping students make a seamless transition to postsecondary education with dual credit opportunities.

For students who meet the college entrance requirements, dual credit is available for the following classes:

Business Math Multimedia Advanced Multimedia Journalism/Yearbook Business Principles Drafting Welding Leadership Dynamics *Available for some Agriculture courses if the student takes the KOSSA Skill Standard test and passes it.
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CTE Career Majors

Consumer & Family Management

You must take 3:

Life Skills
Foods
Relationships & Parenting
Culinary Skills
Child/Human Development
Computer Applications
Business Math
Leadership Dynamics

Administrative Support Services

You must take:

Computer & Technology Applications
Advanced Computer & Technology Applications
Business Co-op

Choose 1:

Accounting and Finance Foundations
Business Law
Business Math
Financial Accounting
Leadership Dynamics

Business Management

You must take:

Computer & Technology Applications
Accounting & Finance Foundations
Business Law

Choose 1:

Business Principles
Financial Accounting
Principles of Marketing
Web Page Design
Leadership Dynamics

Business Technology

You must take 4:

Computer & Technology Applications
Accounting and Finance Foundations
Financial Accounting
Business Law
Financial Services 1
Business Math
Advanced Computer and Technical Applications
Business Co-op
Leadership Dynamics

Technology Education

You must take 4:

Commercial Construction
Construction Technology 2
Residential Carpentry
Drafting 1
Drafting 2
Commercial/Residential Technology Applications
Overview of Technological Systems 2
Technology Co-op
Leadership Dynamics

Welding

You must take 4:

Basic Welding A
Basic Welding B
Cutting Processes/Lab
Oxy-Fuel Systems/Lab
Shielded Metal Arc Welding/Fillet Lab
SMAW Groove Lab with Backing Lab
Gas Metal Arc Welding/Fillet Lab
GMAW Groove Lab
Gas Tungsten Arc Welding/Fillet Lab
GTAW Groove Lab
Blueprint Reading for Welding/Lab
TQM & Team Concepts
Welding Certification/Lab
Practicum 1
Welding Co-op
Leadership Dynamics

Agribusiness

Recommended Courses:

Principles of Agriculture
Agriscience
Agricultural Business/Farm Management
Agriculture Sales & Marketing
Advanced Agriculture Economic & Agribusiness
Agriculture Communications

Elective Courses:

Agriculture Math
Greenhouse Technology
Small Animal Tech
Leadership Dynamics
Business Management
Principles of Marketing

CTE Career Majors

Horticulture

Recommended Courses:

Principles of Agriculture
Agriscience
Plant/Land Science
Floriculture/Floral Design
Greenhouse Technology
Nursery/Orchard Technology
Landscaping/Turf Management
Advanced Plant Science
Crop Technology

Elective Courses:

Ag. Math
Agricultural Business/Farm Management
Agriculture Construction
Ag. Sales & Marketing
Small Power Equipment
Agri-Biology
Leadership Dynamics
Business Management
Principles of Marketing

Animal Science Systems

Recommended Courses:

Principles of Agriculture
Agriscience
Animal Science
Animal Technology
Equine Science
Advanced Animal Science
Small Animal Tech
Veterinary Science

Elective Courses:

Ag. Math
Ag. Sales & Marketing
Ag. Construction
Ag. Power & Machinery
Agri-Biology
Advanced Ag. Economics & Agribusiness
Ag. Business/Farm Management
Leadership Dynamics
Business Management
Principles of Marketing

Agricultural Power, Structural & Technical Systems

Recommended Courses:

Principles of Agriculture
Agriscience
Ag. Construction
Small Power Equipment
Ag. Power & Machinery
Ag. Structures & Design

Elective Courses:

Ag. Math
Ag. Sales & Marketing
Ag. Business/Farm Management
Leadership Dynamics
Business Management
Principles of Marketing

Environmental Science & Natural Resources Systems

Recommended Courses:

Principles of Agriculture
Agriscience
Forestry
Environmental Science & Technology
Wildlife Resources
Aquaculture
Plant & Land Science

Elective Courses:

Ag. Math
Agri-Biology
Nursery & Orchard Tech
Greenhouse Technology
Advanced Plant Science
Leadership Dynamics
Business Management
Principles of Marketing

CTE Career Majors

Agribiotechnology

Recommended Courses:

Principles of Agriculture

Agriscience

Agri-Biology

Advanced Animal Science

Agri. Bio-Technology

Veterinary Science

Elective Courses:

Environmental Science & Technology

Ag. Math

Leadership Dynamics

Business Management

Principles of Marketing

Agricultural Education, Communication, & Leadership

Recommended Courses:

Principles of Agriculture

Leadership Dynamics

Ag. Communications

Principles of Teaching Ag. Education

Elective Courses:

Ag. Sales & Marketing

Agribusiness/Farm Management

Ag. Math

Agriscience

Leadership Dynamics

Business Management

Principles of Marketing

Registering for Classes

Guidelines for Pre-Registering in Infinite Campus

Request Entry in the Portal

Course requests for the next school year may be entered by students or Portal contacts related to students using the Registration tool found in the Portal. Access to this tool is seasonal and may vary from school to school.

To enter course requests in the Portal:

1. Log onto the Campus Portal:
2. Select the Registration tool in the blue outline.
3. Courses that have been pre-entered by school staff members will show in the required course list. These requests may **not** be changed through the Portal.
4. To enter a request, search for the course using the name OR number of the course. Search results will appear to the right of the search fields.
5. To view more information about a course OR to request the course, select the course in the list.
6. If a description for the course has been entered, it will appear at the bottom of the screen.
7. To make a request for the course, click the Request this Course button.
8. An alternate course is a “backup” request that could be used by a counselor to fill holes in the schedule. Your school may require a set number of alternates to be entered. Check with your counselor for more information.
9. To print a list of courses requested, click the Print Request Summary at the top of the screen.

***Students are asked to pre-register for 7 classes and 4 alternate choices.**

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Practice Scheduling Sheet

Student Name: _____

You will sign up for **seven** (7) credits/classes.

Give the name and course number for each section.

1. _____ one credit

2. _____ one credit

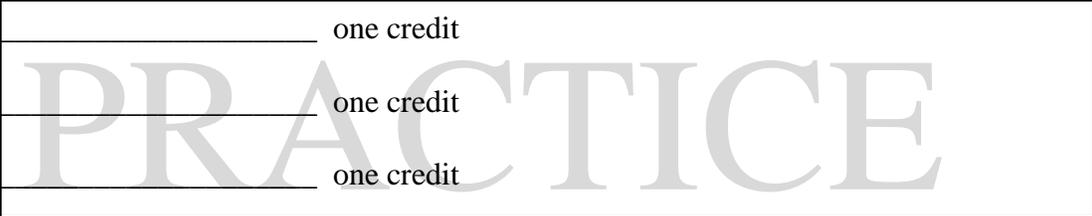
3. _____ one credit

4. _____ one credit

5. _____ one credit

6. _____ one credit

7. _____ one credit



In this area, you are to give your alternate selections. If you are unable to be placed into one of the classes listed above, your counselor will try to place you into one of the classes listed below. You must list 4 alternate courses. Failure to list alternate choices indicates that it is the desire of the student for the guidance counselor to make these choices for the student.

1st Alternate Choice _____

2nd Alternate Choice _____

3rd Alternate Choice _____

4th Alternate Choice _____

LCHS Curriculum Guide
COURSE DESCRIPTIONS

LANGUAGE ARTS

English 1 (2301)

1 Credit, Grade Level: 9 Successful completion of 8th grade language arts. English 1 continues to develop students' language arts abilities in reading, writing, speaking, and thinking gained in the elementary and middle school. Students study a variety of types of literature and practice the stages of the writing process by composing for a variety of purposes and audiences. They refine their abilities to handle conventional matters of punctuation, spelling, and usage within the context of writing. Students' writing experiences are not restricted to responding to and interpreting literature.

English 1 Accelerated (2311)

1 Credit, Grade Level: 9 Successful completion of 8th grade language arts and teacher recommendation. This English course is designed for the above average student. It is designed to introduce the students to American literature through a historical perspective. Taught collaboratively with an advanced U.S. history course, this class uses the writing process, projects, and learning events to examine aspects of our American heritage. Literary forms include the novel, drama, short story, essay and poetry.

English 2 (2302)

1 Credit, Grade Level: 10 Successful completion of English 1. This course continues the refinement of students' skills in language arts. Students read, respond to and interpret a variety of types of literature, reinforcing their writing skills in addressing a variety of audiences and purposes. Student writing in context is used as the basis for teaching the skills of mechanics and usage.

English 2 Accelerated (2312)

1 Credit, Grade Level: 10 Successful completion of 9th grade language arts and teacher recommendation. This course is designed to introduce students to world cultures through literature. Taught collaboratively with an advanced world civilizations course, this class uses the writing process, projects, and learning events to examine all aspects of various cultures of the world. Literary forms include the novel, drama, short story, essay, and poetry.

English 3 (2303)

1 Credit, Grade Level: 11 Successful completion of English 2. This course continues to develop students' competencies in language arts skills. Content includes instruction in oral and written composition; study skills; reference and research techniques; and the historical, cultural, and aesthetic significance of American literature. Continuing to practice the steps in the writing process, students write for a variety of purposes and a variety of audiences.

English 3 Accelerated (2313)

1 Credit, Grade Level: 11 Successful completion of English 2 and teacher recommendation. This course integrates the study of American literature with the use of the writing process, poetry, short stories, essays, and the character sketch. Library and research skills are further developed.

English 4 (2304)

1 Credit, Grade Level: 12 Successful completion of English 3. This course offers continued refinement of students' abilities in language arts skills. Content includes appropriate experiences in oral and written composition and the historical, cultural, and aesthetic significance of British literature. Continuing to practice the steps in the writing process, students write for a variety of purposes and a variety of audiences.

English 4 Accelerated (2314)/AP English IV

1 Credit, Grade Level: 12 Successful completion of English 3 and teacher recommendation. This course, especially beneficial for the college bound senior, offers advanced refinement of students' language arts skills. It includes appropriate experiences in oral and written composition as well as a critical analysis of the historical, cultural, and aesthetic significance of the English language and of British literature. Students write for a variety of purposes and audiences using the various stages of the writing process as tools of critical thinking, and the compilation of Senior Writing Portfolios. Possible college credit may be earned provided students meet the established criteria.

Journalism/Yearbook (2321)

Grades: 11-12 Prerequisite: Teacher Recommendation Credits: 1 each year This course provides an advanced opportunity for journalistic expression. Students write and edit copy, use photography, develop layouts for pages, and supervise the production of the school yearbook. This course may be repeated for up to two credits.

MATHEMATICS

Algebra A (270302)

1 Credit- Grade Level: 9- This course is the first course of the set of Algebra 1 courses and is designed for students who might need two years (or two semesters in block schedules) to attain all the concepts addressed in a high school Algebra 1 course. Students must pass both courses (270302 and 270303) to earn the Algebra 1 credit for high school graduation.

Algebra B (270303)

1 Credit- Grade Level: 9-10 Prerequisite: Algebra 1A-This course is the second course of the set of Algebra 1 courses and is designed for students who might need two years (or two semesters in block schedules) to attain all the concepts addressed in a high school Algebra 1 course. Students must pass both courses (270302 and 270303) to earn the Algebra 1 credit for high school graduation.

Algebra I (2710)

1 Credit- Grade Level: 9 10 11 12 Prerequisites: None – The objectives of this course are to develop strategies for solving routine problems and to give students an understanding of algebra by emphasizing concepts, structure and applications. Topics will include the real number system, number theory, algebraic expressions and sentences, linear and quadratic equations, inequalities and radical expressions factoring polynomials. Extensive problem solving, mathematical communications, reasoning, and mathematical connections are woven into the course.

270308 - Algebra 1 Intervention

1 Credit- Grade Level: 9 - 11 Prerequisites: None- This course is designed for students who need additional time to learn HS Algebra 1 topics and should run concurrently with HS Algebra 1. This course should use hands-on activities and explorations with graphing calculators to support the study of algebraic concepts addressed in a HS Algebra 1 course and should be designed to provide individualized support to enhance a student's college or career readiness. This course does not meet the Algebra 1 graduation requirement.

Honors Algebra I (2709)

1 Credit- Grade Level: 9 Prerequisites: Teacher Approval – This course will give students the opportunity to establish foundations in algebraic concepts and problem solving skills. It is a challenging course intended for students who plan on entering college in a math related area. This course covers algebraic concepts with emphasis on applications. Topics include: signed numbers; exponents; order of operations; simplifying expressions; solving linear equations and inequalities; graphics; formulas; polynomials; factoring; rational expressions; rational exponents; rational, radical, and quadratic equations; functions; and variations. Upon completion, students should be able to apply algebraic concepts in problem solving using appropriate technology.

Geometry (2712)

1 Credit- Grade Level: 9-12 Prerequisites: Algebra I – Focus should be on discovery and realistic applications for geometric relationships and principles. Topics include constructions, inductive and deductive reasoning, points, lines, planes, angles, triangles, planar figures, similarity and congruence, circles, three-dimensional geometry, area volume, locus, coordinate geometry, and transformations.

Geometry Intervention (270406)

1 Credit-Grade Level 9, 10, 11, 12 Prerequisites: None- This course is designed for students who need additional time with HS Geometry topics and runs concurrently with HS Geometry. This course should use hands-on activities and explorations with graphing calculators to support the study of geometric concepts addressed in a HS Geometry course and should be designed to provide individualized support to enhance a student's college or career readiness. This course does not meet the HS Geometry graduation requirement.

Honors Geometry (270402)

1 Credit Grade Level: 9, 10, 11, 12 Prerequisites: Honors Algebra or Teacher Recommendation – This course is designed so the students can develop skills and concepts from the relevant statements in the High School Program of Studies in order to earn the high school graduation credit for Geometry, with opportunity provided for students to progress ahead of the minimal requirements from the Program of Studies. Content: Geometry Population: General

Algebra II (2723)

1 Credit- Grade Level: 10, 11 Prerequisites: Algebra I – This course is designed for students who have demonstrated a level of understanding and proficient in concepts and skills of Algebra I. This course includes skills and concepts of Algebra II such as solving systems of equations and inequalities, quadratic equations, radical expressions, conics, laws of exponents, polynomials and enrichment topics/activities as appropriate. A graphing calculator is required!

Algebra 2 Intervention (270318)

1 Credit-Grade Level: 9 - 12 Prerequisites: None-This course is designed for students who need additional time with Algebra 2 topics and runs concurrently with Algebra 2. This course should use hands-on activities and explorations with graphing calculators to support the study of algebraic concepts addressed in a HS Algebra 2 course and should be designed to provide individualized support to enhance a student's college or career readiness. This course does not meet the Algebra 2 graduation requirement.

Honors Algebra II (2711)

1 Credit- Grade Level: 10, 11 Prerequisites: Honors Algebra I with a grade of A or B, or teacher approval – This course is designed for students who have demonstrated an above average level of understanding and proficiency in concepts and skills of Honors Algebra I. This course is a challenging course intended for students who plan one entering college in a math related area. This course includes skills and concepts of Algebra II such as solving systems, quadratic equations, radical expressions, conics, laws of exponents, polynomials and enrichment topics activities as appropriated. A graphics calculator is required.

Algebra 3/Preparation for College Algebra (270321)

1 Credit-Grade Level: 11 - 12 Prerequisites: Algebra 1, Geometry, Algebra 2- The content should go beyond traditional Algebra 2 content. This course is designed for students who are intending to enter into post-secondary education and perhaps pursue a degree that requires an algebra pathway but are in need of additional mathematics preparation in order to be successful in a credit-bearing college algebra course.

Transitional Math (2742)—12th grade

1 Credit- Grade Level: 11, 12 Prerequisites: Algebra I, Algebra II, and Geometry – This course is designed for students who have acquired computation skills and some fundamental algebraic and geometric concepts. Students will apply these concepts to non-routine problems using modeling and manipulative materials. Topics include those in real world mathematics, (consumer, career, sports, business/industry, etc.) with concepts developed through problem-solving activities, using the computer as a tool (through applications software or

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programming) if possible, such as: graphing, functions, collecting and interpreting statistical data, probability, translating equivalent representations) e.g. from an algebraic to a geometric representation), solving equations and inequalities, applying the Pythagorean Theorem, estimation, and testing

Pre-Calculus (2704)

1 Credit Grade Level: 10 11 12 Prerequisites: Algebra II and Geometry – This course is intended for students who plan to take advanced mathematics courses in high school and college. It includes the topics traditionally taught as trigonometry and analytic geometry and integrates additional work with other functions/ Topics include: Functions; their inverses; graphs; applications including polynomials, rational, exponential, logarithmic, circular, trigonometric, absolute value and natural number; analytical geometry; polar coordinates; complex number systems; vectors including applications to lines, planes, matrices; mathematical induction; and graphs in three-dimensions. A graphing calculator is required!

Calculus (2725)

1 Credit Grade Level: 11 12 Prerequisites: Pre-Calculus – This course is designed for those students who wish to pursue a math or science field in college. Topics include trigonometric functions, derivatives, integrals, inverse functions, and anti-derivatives. A graphing calculator is required!

AP Calculus (2726)

1 Credit Grade Level: 12 Prerequisites: Algebra I, Algebra II, Geometry, and Pre-Calculus – This course is designed for students who have completed four courses in the pre-college curriculum. It follows the curriculum established by the College Board. AP Calculus students may elect to take the College Board Advanced Placement examination in Calculus at the students own expense. Teacher recommendation is required.

College Success Math 055/065 (2730)

1 Credit Grade Level: 12 Prerequisites: Algebra 1 and Geometry. This is a student-centered senior mathematics course designed to enhance the understanding and manipulative skills in the arithmetic of rational numbers. Topics include using numbers, geometry, and basic algebra. Specifically, topics will include whole numbers, fractions, decimal fractions, percents, ratios, proportions, signed numbers, basic algebra covering variable expressions, linear equations, and inequalities, exponents, polynomials, factoring, square and cube roots, scientific and engineering notations, elementary graphing, and measurement units and conversions. Successful students in this course should transition smoothly into college level math classes, and as a result, begin receiving math credit toward collegiate graduation immediately.

SOCIAL STUDIES

American Government/Political Science – (2271)

1 Credit Grade levels: 11-12 Prerequisite: U.S. History, World Civilization-- Students examine the basic structures of governments and institutions. The relationship of power and decision making are examined through the study of the Constitution of the U.S. and other historical documents. Democratic values and citizen participation are stressed throughout the course.

American Studies – (2244)

1 Credit Grade level: 9 Prerequisite: Teacher recommendation- This course extends the students' knowledge of the U.S. History gained in the lower grades. It embraces a view of history from political, economic, and social aspect.

Archeology – (2295)

1 Credit Grade levels: 11-12 Prerequisite: U.S. History and World Civilization; Biology 1, Algebra 2—This course scientifically and historically explores the people, customs, and lifestyles of the past. Students will excavate, classify, map, and reconstruct the past through hands-on and research-based activities including those connected with Fort Smith among others.

Government and Politics (AP) – (2272)

1 Credit Grade levels: 11-12 Prerequisite: Teacher recommendation—This course follows the curriculum established by the College Board and prepares students to take the Advanced Placement examination in Government and Politics.

Psychology – (2207)

1 Credit Grade levels: 11-12 Prerequisite: None—Psychology is the systematic study of individual behavior and human mental processes. It studies both the cognitive aspects of the mind and the affective aspects of how humans feel about their experiences. How individuals perceive, learn, react, and relate to each other and to themselves are major aspects of psychology.

United States History – (2243)

1 Credit Grade level: 11th Prerequisite: Completion of American Government and World Civilization—This course focuses on the Reconstruction Period to the present, looking at the forces that shaped and continue to shape political, economic, and social institutions and the impact of those forces on the development of the United States.

World Studies – (2219)

1 Credit Grade level: 10 Prerequisite: Teacher recommendation—This course extends the students' knowledge of the world gained in lower grades. It embraces a global view of the history of mankind.

United States History (AP) – (450814)

1 Credit, Grade Levels: 11/12 Prerequisite: Teacher recommendation.

The AP program in United States History is designed to provide students with the analytical skills and factual knowledge to deal critically with the problems and materials in United States History. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials—their relevance to a given interpretive problem, their reliability, and their importance—and to weigh the evidence and interpretations presented in historical scholarship. In addition, students will use a primary source reader and other

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scholarly reference materials throughout the year. An AP United States History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format. Students are responsible for their own learning.

World Civilization – (2246)

1 Credit Grade levels: 10-11 Prerequisite: None—This course extends the students' knowledge of the world gained in lower grades. It embraces a global view of the history of mankind. The course is interdisciplinary, drawing on concepts from social studies disciplines, including history, anthropology, economics, geography, political science and psychology.

SCIENCE

Biology – (302601)

Grade Level: 10 - 12 **Credits:** 1 **Description:** Students develop a conceptual understanding of life science, as outlined in Kentucky's Program of Studies, through the use of scientific inquiry. They experience life science concepts such as the cellular organization; molecular basis of heredity; biological change; interdependence of organisms; matter, energy and organization in living systems; and behavior of organisms. A scientific inquiry approach uses concrete, hands-on experiences that require students to apply critical-thinking skills. It is suggested that the physical science course be taken before either Earth/space science or life science. **Content:** Life Science **Population:** General

Honors Biology – (302645)

Grade Level: 10 - 12 **Credits:** 1 **Description:** This course allows students to attain all the concepts contained in the description for Biology, with the opportunity provided for students to progress ahead of the non-honors course. **Content:** Biology **Population:** General

Anatomy & Physiology – (2510)

Grade Level: 11 - 12 **Credits:** 1 **Prerequisites:** Life Science, Earth/Space Science, Chemistry or Physics **Description:** Major concepts addressed in this course include plant structure, animal structure, tissues, organs, and systems. Students will examine muscles and organs through dissection of fetal pigs and other animals. **Content:** Anatomy and Physiology **Population:** General

Chemistry I – (2521)

Grade Level: 10 - 12 **Credits:** 1 **Prerequisites:** Life Science, Earth/Space Science, Algebra I **Description:** This course focuses on problem solving techniques; bonding; equilibrium; equations. Students develop a conceptual understanding of chemistry content, included in the Program of Studies, through the use of scientific inquiry. **Content:** Chemistry **Population:** General

Earth/Space Science – (304611)

Grade Level: 9 - 12 **Credits:** 1 **Description:** Students develop a conceptual understanding of Earth/space science, as outlined in Kentucky's Program of Studies, through the use of scientific inquiry. They experience Earth/space concepts such as energy in the Earth system, geochemical cycles, formation and ongoing changes of the Earth system, and formation and ongoing changes of the universe. A scientific inquiry approach uses concrete, hands-on experiences that require students to apply critical thinking skills. It is suggested that the physical science course be taken before either Earth/space science or life science. **Content:** Earth-Space Science

AP Environmental Science – (304622)

Grade Level: 9 - 12 **Credits:** 1 **Description:** NOTE: If this course is to be used as a graduation requirement it must adhere to the content requirements of the Program of Studies. This AP course focuses on earth systems & resources, the living world, population, land & water use, energy resources and consumption, pollution and global change. **Content:** AP Environmental Science **Population:** General

FINE ARTS

Concert Choir (SATB) (2824)

Grade: 9-12; Prerequisite: None; Credits: 1; This is a mixed choir (SATB). It teaches music skills through group performances. The choral group will study and perform a widely varied program of music literature. A natural outgrowth of this course is appropriate performance, festivals, and concerts. This course may require and audition. This course may be repeated.

Chamber Singers (SATB) (2826)

Grade: 10-12; Prerequisite: Teacher Approval; Credits: 1; This is a mixed choir. Music skills are taught through group performance. The choral groups study and perform a wide variety program of music literature. A natural outgrowth of this course is appropriate performance, festivals, and concerts. This course may be repeated and requires an audition.

Spring and Fall Band (2837)

Grade: 9-12; Prerequisite: Teacher Approval; Credits: 1; This course is designed for the band student who wishes to learn instrumental music through group performances and contests. This is marching, pep, and Concert band. This course may be repeated.

Arts and Humanities Class (2899)

Grade: 9-12; Prerequisite: None; Credits: 1; This course is a basic introduction to the five domains of art: visual art, music, literature, dance, and drama. Students will experience each of these areas through hands on activities, as well as book learning.

Visual Arts 1 (2801)

Grade: 9-12; Prerequisite: None; Credits: 1; This course provides instruction in the basic arts areas with emphasis on design, drawing, painting, printmaking, and sculpture. Visual Art careers, art history, appreciation, evaluation and aesthetics will be incorporated in the studio instruction.

Visual Arts 2 (2802)

Grade: 9-12; Prerequisite: Art 1; Credits: 1; This course is designed to provide additional experiences in the visual art areas with emphasis on design, drawing, painting, printmaking, and sculpture.

Visual Arts 3 (2803)

Grade: 9-12; Prerequisite: Art 1 & 2/teacher recommendation; Credits: 1; The course provides in-depth instruction in a combination of at least three areas selected from design, drawing, painting, printmaking, sculpture, and commercial art.

Visual Arts 4 (2804)

Grade: 12; Prerequisite: Art 1, 2, & 3/teacher recommendation; Credits: 1; This course is developed in areas selected from design, drawing, painting, printmaking, sculpture, and photography.

FOREIGN LANGUAGE

Spanish 1 (2431)

Grade: 9-12; Prerequisite: None; Credits: 1

Students will:

1. Learn and work with basic grammar concepts such as present tense conjugations, question and sentence formation and other basic grammar concepts. Toward the end of Spanish 1, students will be introduced to the first past tense in Spanish.
2. Understand and imitate spoken material modeled by the teacher or a native speaker on CD or DVD with acceptable pronunciation of individual sounds and with accurate production of patterns of rhythm and melody.
3. Produce the proper response to lines of basic dialogues when cued by directed dialogue, a specific situation or enactment or just a preceding line of basic dialogue.
4. Interact with fellow classmates through the enactment of basic dialogues or conversation, either through reading of assigned roles or memorization of assigned roles.
5. Produce orally appropriate short answers to questions based on basic dialogues, selected reading passages, or conversational situations within the classroom.
6. Develop and refine basic writing skills within the language through dictation, with accurate spelling and punctuation, from basic dialogue or selected reading passages.
7. Read selected material with acceptable phrasing, speed, and pronunciation of individual sounds.
8. Translate basic passages from Spanish to English and from English to Spanish.
9. Become acquainted with Spanish customs and traditions through the reading and the discussion of selected cultural articles; through the class discussions of current events as they relate to the Spanish nations of the world; and through the viewing and discussions of the textbook online, CD's, DVD's, and Internet websites about the Spanish-speaking people of the world.

Spanish 2 (2432)

Grade: 10-12; Prerequisite: Spanish 1; Credits: 1

Students will:

1. Learn and work present tense questions and sentences along with a more concentrated look at the first and second past tense called preterite tenses and more advanced grammar concepts.
2. Learn and work with the future tense, plus other grammar concepts native to the Spanish language.
3. Concentrate on more writing, reading, and speaking skills.
4. Discover and share, through research the customs, traditions, and manners of the Spanish world.

Spanish 3 (2433)

Grade: 9-12; Prerequisite: Spanish 1 & 2; Credits: 1

Students will:

1. Learn and work with all concepts learned in Spanish 1 & 2
2. Learn and work with the conditional and subjunctive verb forms, plus additional grammar concepts native to the Spanish language.
3. Concentrate on more writing, reading, and speaking skills.

HEALTH & PHYSICAL EDUCATION

Health & Physical Education (28600)

½ Credit for Health and ½ Credit for PE Grade Level: 9-12. This is a basic course required of all students. A variety of activities are introduced which stress the development of basic skills, rhythmic activities, individual, dual and team sports and games, and physical fitness. This course emphasizes instruction in the health essential skills areas which are: community/consumer health, safety and accident prevention, substance abuse, growth and development, personal health, mental health, environmental health, and nutrition education.

Advanced Physical Education (2882)

1 Credit Grade Level: 10-12 Prerequisite: PE 1 This course consists of activities included in Physical Education 1 with emphasis on advanced skill development, rule knowledge, strategy acquisition, and lifetime skill development.

EDUCATION

Math Enrichment (34289)

Grades Level: 9-12 Prerequisite: None. Credit: 1 Math Enrichment offers a structured remediation solution based on the NCTM Curricular Focal Points and is designed to expedite student progress through 3rd- to 5th-grade skills. The course is appropriate for use as remediation for students in grades 6 to 12. When used in combination, Math Enrichment (covering grades 6 to 8) effectively remediates computational skills and conceptual understanding needed to undertake high school-level math courses with confidence.

Math Enrichment empowers students to progress at their optimum pace through over 80 semester hours of interactive instruction and assessment spanning 3rd- 5th-grade math skills. Carefully paced, guided instruction is accompanied by interactive practice that is engaging and accessible. Formative assessments help students to understand areas of weakness and improve performance, while summative assessments chart progress and skill development. Early in the course, students develop general strategies hone their problem-solving skills. Subsequent units provide a problem-solving stand that asks students to practice applying specific math skills to a variety of real-world contexts.

Distance Learning (123456)

Grade Level: 11-12 Prerequisite: Must meet grade qualifications set by WKCTC and pay all fees associated with the course. Credit: College credit available

Livingston Central, in conjunction with West Kentucky Community and Technical College, offers Distance Learning college courses to qualified students each semester. The range of classes varies depending on what is being offered by WKCTC. Students must meet grade qualifications in order to enroll and must pay all tuition and fees required by the college. Students enrolled in Distance Learning will be placed in a computer lab for one period out of the day in order to have internet access to complete their coursework.

ALTERNATIVE EDUCATION

Credit Recovery (8959) *Enrollment by Administrator referral only*

The goal of Credit Recovery is to give high school students the opportunity to graduate in a timely manner. This program has policies and procedures that allow students who have failed core courses (courses required for graduation) an opportunity to make-up non-mastered standards without repeating the entire course. Livingston Central High School students may participate in Credit Recovery by adhering to the guidelines outlined below. Credit Recovery coursework and assessments are provided through a computer-based system purchased by the Livingston County Board of Education.

- ✓ Students who earn a final grade between 0% - 59% are eligible for Credit Recovery.
- ✓ A maximum of 5 credits may be recovered.
- ✓ A maximum of 2 credits per core discipline may be recovered.
- ✓ Students who earn a final grade between 50%--59% are eligible for reduced amounts of credit recovery.
- ✓ Recovered credit will only be awarded when students have completed all work satisfactorily.
- ✓ Recovered credit will be entered on the transcript as repeat attempts and will not replace the previously earned grade. Both the original grade and the Credit Recovery grade will be included in the student's cumulative grade point average.
- ✓ Recovered credit will be entered at the end of each semester or at the end of summer school.
- ✓ A grade of D (65) is the highest grade awarded through Credit Recovery.

New Beginnings (1901) *Enrollment by Administrator referral only*

The New Beginnings classroom is a self-contained learning environment for students who exhibit unacceptable behavior, as describe in the student handbook. The goal is to enable to students with options in order for them to achieve upon re-entering the regular classroom. Students will be encouraged to re-evaluate their attitudes, self-esteem, and behavior while in the program. Staff will make a concerted effort to improve student academic progress by assisting each student in making their own choices to ensure responsibility to maintain their academic standing.

Open Campus (2011) *Located at Livingston County Middle School*

Livingston Central Open Campus Program is an alternative program that provides and alternative education to the traditional high school; it provides the opportunities for academic success/diploma for those students meeting the criteria. Students are obligated to complete the required curriculum credits set by the state through a combination of book work and computer based learning programs and they must complete a minimum of 10 hours of community service learning during their enrollment period.

Criteria for Enrollment:

1. Referreral by the LCHS Principal, LCHS Asst. Principal, and or the LCHS Guidance Counselor.
2. Must be at least 16 years of age
3. Must have completed 16 credits from the high school
4. Must be behind graduating class
5. Current resident of Livingston County
6. All referrals will go through the LCHS Guidance Counselor to the Open Campus Instructor as well as the Director of Pupil Personnel.
7. Others may be referred to Open Campus through the LCHS Guidance Counselor. Those not meeting guidelines may be accepted on an individual basis.
8. Those students with the most credits will be accepted prior to others.

CAREER AND TECHNICAL EDUCATION

- Many CTE courses offer the opportunity for students who meet qualifying criteria to obtain dual credit. Dual credit is high school and college credit given for the same course.
- Minimum requirements for dual credit in eligible CTE courses include an ACT Reading score of 18, a minimum GPA of 2.5 and successful completion of course requirements.
- Students will be notified by CTE administration and staff if dual credit is available for a course.

AGRICULTURE

Agriculture Science and Technology Education is designed to provide career exploration orientation, and preparation for those students who have an interest in some aspect of agriculture. The knowledge and performance skills required for successful achievement and/or advancement in agricultural occupations constitute the central focus of the program. Students planning to attend college majoring in any field of agriculture or science would benefit from high school agricultural education. The content of these courses may be enhanced by utilizing appropriate technology and computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.

Principals of Agricultural Science and Technology (5820)

1 Credit Grade: 9-10

Course #5820 or #5821 is a prerequisite for all other agriculture courses.

This course provides instruction in the foundations of the various segments of the agricultural industry. Agricultural career opportunities will be emphasized. Animal science, plant and land science, and agricultural mechanics skills will be the focus of the curriculum. Students will receive personal guidance and counseling with preparatory instruction program selection.

Agriscience (5821)

1 Credit Grade: 11-12

Course #5820 or #5821 is a prerequisite for all other agriculture courses.

Agriscience introduces the scientific agricultural approach to animal science and selection, plant and land science, and agricultural mechanics. Agricultural career opportunities will be emphasized in each class. Laboratory experiences relating to basic and current technology will be part of the program.

Animal Science (5823)

1 Credit Grade: 10-12

Prerequisite: #5820 or #5821

Animal Science develops basic knowledge and skills pertaining to livestock identification, selection, nutrition, reproduction and genetics, health management, and marketing of one or more species of farm animals. The latest biotechnological applications will be included.

Equine Science (5826)

1 Credit Grade: 10-12

Prerequisite #5820 or # 5821

Equine science develops knowledge and skill pertaining to breed identification and selection, anatomy, physiology, nutrition, genetics and reproductive management, training principles, grooming, health disease, parasite control and sanitation practices.

Animal Technology (5827)

1 Credit Grade 10-12

Prerequisite: #5820 or #5821

Animal Technology instruction concentrates on the advanced production practices and current biotechnological applications of one or more species of farm animals, based on the local community needs. Hands-on experiences will be emphasized.

Advanced Animal Science (5828)

1 Credit Grade: 10-12

Prerequisite: Teacher Approval

A freshman-level college course which introduces students to a survey of genetics, reproductive physiology, growth and development, nutrition and digestive physiology, anatomy, meat science, animal classification, current issues and overviews of the dairy, poultry, equine, beef, sheep, swine, and aquaculture industries. Opportunity is provided for students to earn three (#) hours of introductory college credit.

Plant and Land Science (5822)

1 Credit Grade: 10-12

Prerequisite: #5920 or #5821

Crop Technology instruction concentrated on the production practices and current biotechnological applications of one or more agriculture crops. Hands-on experiences will be emphasized. Instruction will include variety selection, seed bed preparation, pest, weed and disease control, harvesting, and marketing crops. Current biotechnological applications may be included.

Advanced Plant Science (5849)

1 Credit Grade: 10-12

Prerequisite: Teacher Approval

A freshman-level course which introduces students to the world of plants. The course is a survey of botany, agronomy, horticulture, soils, forestry, and other areas of plant science. Opportunity is provided for students to earn (3) hours of introductory college credit.

Agricultural Construction Skills (5831)

1 Credit Grade: 10-12

Prerequisite: #5820 or #5821

Prepares students to construct and maintain agricultural structures and equipment. Develops basic skills such as: tool identification, interpreting plans, calculating a bill of materials, electrification, carpentry, welding, metal fabrication, plumbing, and masonry. This course may be extended to two credits offered on a two-hour basis provided that instruction is enhanced with laboratory experience, project construction, and in-depth skill development.

Agricultural Structures and Designs (5832)

1 Credit Grade: 10-12

Prerequisite: #5820 or #5821 and #5831

This course prepares students to evaluate design and construct agricultural structures. Students learn to design, evaluate and interpret construction plans and calculate a bill of materials. The skills learned in the Agricultural Constructions Skills course may be incorporated to construct an agricultural structure. It is recommended that students complete the Agricultural Construction Skills course prior to enrolling.

Agricultural Power and Machinery Operation (5834)

1 Credit Grade: 10-12

Prerequisite: #5820 or #5821

This course provides instruction and hands-on experience in basic principles of agricultural machinery assembly, operation, maintenance, service, repair and safety. This course may be extended to two credits and offered on a two-hour basis providing the instruction is enhanced with laboratory experience and in-depth skill development.

Floriculture / Floral Design (5839)

1 Credit Grade: 10-12

Prerequisite: #5820 or #5821

Floriculture and floral design provides instruction to develop floral design techniques using silk, dried, and fresh flowers. Students will learn operation and management techniques of a florist business as well as identification, production and cultural maintenance practices of plants used in floral design and interior landscaping.

Greenhouse Technology (5840)

1 Credit Grade: 10-12

Prerequisite: #5820 or #5821

Greenhouse Technology provides instruction in greenhouse structures and greenhouse environment regulations. Plant growth and development and propagation are included as well as production and maintenance of bedding and container produced plants. Fundamental principles of vegetable production and commercial production of vegetable crops may be included.

Landscaping and Turf Management (5836)

1 Credit Grade: 10-12

Prerequisite: #5820 or #5821

This course combines landscaping and turf management curriculum. The material includes identification of landscape plants and their characteristics, site evaluation, site design, calculation of materials needed, costs for bidding, and installing landscape plans. Landscape plant maintenance will also be presented. Selection, culture and management of turf species used for lawns, golf courses, athletic fields and erosion control may also be included.

Nursery and Orchard Technology (5838)

1 credit Grades: 10-12

Prerequisite: #5820 or #5821

Nursery and orchard technology will provide instruction in production practices for container and field-grown nursery stock: identification, function, growing requirements, hardiness, problems and methods of different landscape plant materials: propagating and growing evergreens/deciduous plants: and the operation of garden centers and nurseries. Principles of one and commercial fruit production may also be included.

Agricultural Business / Farm Management (5843)

1 Credit Grade: 10-12

Prerequisite: # 5820 or # 5821

This course introduces the free enterprise system, the study of economic principles, risk management, business law, budgets, finance, record keeping, and careers in agribusiness. Basic skills will be developed to manage a farm or agribusiness. Material will include: managing production-inventory, equipment, credit and taxes, market analysis and developing a business/farm plan.

Agricultural Employability Skills (5847)

1 Credit Grade: 10-12

Prerequisite #5820 or #5821

Agricultural employability skills provides opportunities to develop skills in: job searching, preparing resumes, writing letters of application, job interviews, attitude at work, communicating effectively, human relations and accepting responsibilities.

Agricultural Sales and Marketing (5842)

1 Credit Grade: 10-12

Prerequisite: # 5820 or #5821

This course provides an introduction to agricultural sales and marketing. Course material will include: competition in the agriculture market place, marketing decisions, types of markets, contracting, government programs and regulations, personal development, employee and employer responsibilities, communications promotion strategies, records, files, purchasing materials, stocking selling and business account procedures.

Agricultural Communications (5852)

1 Credit Grade: 10-12

Prerequisite: # 5820 or #5821

This course develops an understanding of fundamental skills necessary to be successful in the agricultural communications industry. Provides guided practice and applied experience utilizing various styles of communication including oral, written, and electronic communications. Techniques of communications will include: traditional print media, brochure development, photography, videography, computer program applications, and internet usage including e-mail.

Environmental Technology (5848)

1 Credit Grade: 10-12

Prerequisite: # 5820 or #5821

This course is an intermediate scientific study of environmental technology. It is designed to develop an awareness of environmental concerns related to air, water, soil, land use management, waste management, and their interrelationship with the biological ecosystem. Soil formation, conservation and evaluation material will also be included. Content will be enhanced with appropriate computer applications, scientific laboratory activities, field experimentation, community development projects, and occupational development.

Forestry (5846)

1 Credit Grade: 10-12

Prerequisite: #5820 or #5821

This course introduces the science of silviculture. The course includes career opportunities, tree identification, tree production, forestry management, timber harvesting, wood utilization and the environmental and ecological aspects of forestry.

Small and Specialty Animal Technology (5845)

1 Credit Grade: 10-12

Prerequisite: #5820 or #5821

This course develops scientific knowledge, management practices, and marketing strategies in small and specific animal technology. The curriculum includes identification, anatomy, physiology, and nutrition. Health, selection and care of small animals such as dogs, cats, rabbits, companion birds, ostriches, emus, tropical fish, and fur bearers. Content will be enhanced with appropriate applied scientific laboratory activities and computer applications.

Wildlife Resources (5854)

1 Credit Grade: 10-12

Prerequisite: #5820 or #5821

Develops an awareness of wildlife industry resources. The course includes: a study of ecology and ecosystems, wildlife habitat, population dynamics, management techniques that deal with wildlife in all areas and the regulations that affect the wildlife industry.

Advanced Wildlife Management (5850)

1 Credit Grade: 10-12

Prerequisite: Teacher Approval

A freshman-level college course that provides students with an overview of wildlife ecology and management. Emphasis is placed on the multifaceted nature of wildlife ecology, the importance of wildlife in our culture, and the relationships among wildlife and other natural resources. Opportunity will be provided for students to earn (3) hours introductory college credit.

Veterinary Science (5855)

1 Credit Grade: 10-12

Prerequisite: # 5820

This course introduces students to the field of veterinary science. Major topics include veterinary terminology, safety, sanitation, anatomy/physiology, clinical exams, hospital procedures, parasitology, posology, laboratory techniques, nutrition, disease, office management and animal management. Careers are also explored.

Leadership Dynamics (5689)

Grade: 11-12

This course is designed to prepare individuals to be successful leaders in a global society through the development of a personal philosophy of leadership. Emphasis will be placed on individuals recognizing their leadership styles and the development of skills related to team building management and communication. The course will provide opportunities for students to make application of knowledge and skills gained through this course.

Crop Technology (5825)

Grades: 10-12 1 credit

Prerequisite: 5820 and 5821

Crop technology instruction concentrates on the production practices and current biotechnological applications of one or more agriculture crops. Hands-on experiences will be emphasized. Instruction will include a variety selection, seed bed preparation, fertilization, pest, weed and disease control, harvesting and marketing crops. Current biotechnological applications may be included.

Agriculture Coop (5890)

Credit Varies

Grade: 12th Grade Only

Cooperative Education refers to an educational program consisting of in-school instruction combined with on-the-job work experience in a business or industrial establishment. These are planned experiences supervised by the school and the employer to ensure that each phase contributes to the student's Individual Graduation Plan and Career Major/Clusters.

The purpose of Cooperative Education programs is to develop occupational competence reinforced by a real-life job experience. The school selects as a training agency a firm that will provide and coordinate occupational

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experiences needed by the student. Information on other types of work-based learning are described in detail in the document *Work-Based Learning Guide 2000*, which is available at:
<http://www.state.ky.us/agencies/labor/eshome.htm>

TECHNOLOGY EDUCATION

Introduction to Construction (5979)

Grade: 9-12 Prerequisite: None Credit: 1

A broad-based course taught in a lab setting that will cover the following: 1. Orientation to the trends. 2. Intro to safety 3. Hazard communications. 4. Personal protection equipment. 5. Job site safety 6. Proper use of tools and machines 7. Glass, fasteners, security, nails, etc. 8. Material used in construction trades.

Construction 1 (5975)

Grade: 9-12 Prerequisite: None Credit: 1

This program will teach students to perform to national construction industry standards. The program will include core building courses in residential and commercial blueprint reading, introduction to construction and heavy commercial construction. This course is recommended to take before Technology.

Construction 2 (5978)

Grade: 10-12 Prerequisite: Commercial Construction Credit: 1

This course will build on course # 5979 and will cover topics such as blueprint reading, introduction to construction, floor, wall, roof framing, site layout, metal stud framing, and residential and commercial construction. Use of hands on projects will reinforce the classroom instructions. Students will perform to National Construction Industry Standards.

Drafting 1: (5980)

Grade: 10-12 Prerequisite: None Credit: 1

A comprehensive lab based course which includes the fundamentals of drafting, sketching, and board drafting. Opportunities are provided to apply problem solving and critical thinking skills through the development of a product. This is a dual credit course which must be passed with an 80% average to receive the dual credit.

Drafting 2 (5981)

Grade: 10-12 Prerequisite: Drafting 1 Credit: 1

A comprehensive lab based course which includes the fundamentals of drafting. This course will include cored drafting and will emphasize computer applications in drafting and design. Students will use design briefs to solve drafting-related problems in the four technology systems. Opportunities are provided to apply problem solving skills through the development of product.

Technology Education Co-op (5972)

Credit Varies

Grade: 12th Grade Only

Cooperative Education refers to an educational program consisting of in-school instruction combined with on-the-job work experience in a business or industrial establishment. These are planned experiences supervised by the school and the employer to ensure that each phase contributes to the student's Individual Graduation Plan and Career Major/Clusters.

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the document Work-Based Learning Guide 2000, which is available at:

<http://www.state.ky.us/agencies/labor/eshome.htm>

Leadership Dynamics (5689)

Grade: 11-12 1 Credit This is designed to prepare individuals to be successful leaders in global society through the development of a personal philosophy of leadership. Emphasis will be placed on individuals recognizing their leadership styles and the development of skills related to team building, management, and communication. The course will provide opportunities for students to make application of knowledge and skills gained through this course.

BUSINESS EDUCATION

Computer and Technology Applications (CPU 150) (5614)

Grades: 9-12 Prerequisite: None Credits: 1 Students will use a computer and application software including word processing, presentation, database, spreadsheets, internet, and email to prepare basic documents and reports. The impact of computers on society and ethical issues are presented. *This course is a required Computer Literacy course.*

Accounting 1 (Accounting and Finance Foundations) (5610)

Grades: 10-12 Prerequisite: None Credits:1 The accounting principles taught in this course are based on a double-entry system and include preparing worksheets, journals, ledgers, payroll taxes, and financial statements for a sole proprietorship, and corporation. Opportunities for exposure to automated accounting are provided.

Advanced Computer Applications (5615)

Grades: 10-12 Prerequisite: Computer and Technology Applications Credit: 1 This course is designed to provide students with an advanced-level experience with practical applications through hands-on instruction. Course content will include understanding of various hardware, software operating systems, and care/operations of equipment. The software includes advanced applications using word processing, graphing, spreadsheets, database management, desktop publishing and electronic communication. Leadership development will be provided through FBLA. Upon completion of this course, a student will be ready to take the core level tests for MOUS Certification.

Business Law (5646)

Grade: 10-12 Prerequisite: None Credits: 1 This course develops an understanding of legal rights and responsibilities in personal law and business law with applications applied to everyday roles as consumers, citizens, and workers. The student will have an understanding of the American legal system, court/courts procedures, criminal justice system, torts, the civil justice system, oral and written contracts, sales contracts and warranties, and consumer protection. Legal terminology is emphasized.

Business Management (5648)

Grade: 10-12 Prerequisite: None Credits: 1 This course emphasizes the skills for managing a business that involves the selection and supervision of employees including efficient use of time, personnel, facilities, and financial resources. Student will explore forms of business ownership; typical business organizational structure; product or service promotion in business; effective communications; human relations skills required in dealing with employees; and effective management strategies used in personal, finance, production, marketing, and information processing.

Business Principles and Applications (EFM 100) (5641)

Grade: 9-12 Prerequisite: None Credits: 1 This course establishes basic foundations for further study in business and marketing courses provides essential information for making financial and economic decisions. Students learn about the fundamentals of the American free enterprise system and world economies; application of sound money management for personal and family finances; consumer rights and responsibilities; forms of business ownership; and the importance of international trade.

Entrepreneurship (5644)

Grades: 11-12 Prerequisite: None Credit: 1 This course provides students the opportunity to explore the rewards and risks of business ownership. Emphasis is given to the characteristics of successful entrepreneurs: planning, organizing, and beginning a business; franchising opportunities; and sources of financing. Cooperative and/or shadowing experiences may be used to enhance course instruction.

Financial Services 1 (5660)

Grades: 10-12 Prerequisite: One Business Class Credits:1 This course is an intensive study of economical and financial concepts. It also involves a student bank application of banking and financial concepts. The banking students develop and manage the financial center through a sponsoring bank whose employees work as consultants.

Financial Services 2 (5661)

Grades: 11-12 Prerequisite: Financial Services1 Credits: 1 This course is a continuation of Financial Services 1 and is highly recommended for students pursuing a financial and banking career. Students will continue to learn and practice financial activities associated with the operation of a bank and other financial-related institutions by participating in a work-based learning experience within the school bank.

Multimedia Publishing (BET 272) (480603)

Grades: 10-12 Prerequisite: Computer and Technology Applications and Teacher Approval Credits: 1 this hands on course applies publishing and presentation concepts through the development of sophisticated business documents and projects. These documents include, but are not limited to, brochures, manuscripts, reports, programs, catalogs, newsletters, flyers, business forms, graphs, web pages, onscreen presentations, and video productions. Equipment such as scanners, digital cameras, video cameras, and color laser printers, may be utilized in creating the documents. Formatting, editing, page layout, and design concepts are taught. Distribution ready publication standards are applied to all projects. Students will develop communication skills, problem solving techniques, cooperative learning, and interpersonal skills.

Advanced Multimedia Publishing (BET 272) (5667)

Grades: 11-12 Prerequisite: Multimedia Publishing and Teacher Approval Credits: 1 This hands on course advanced web design, publishing, and presentation concepts through the development of sophisticated documents and projects which includes, but is not limited to: web sites, web data base, web movies, video editing and production, television productions. The course is designed around the learning goals of the instructor utilizing hardware and software available. Formatting, editing, layout, and design concepts are reviewed and reinforced. Distribution ready publication standards are applied to all projects. Students will develop communication skills, problem solving techniques, cooperative learning, and interpersonal skills. Leadership development will be provided through FBLA.

Principles of Marketing (5670)

Grades: 9-12 Prerequisite: None Credits: 1 This course provides a basic foundation for further study in marketing. Students study the development of products and then explore what occurs in the marketplace by studying purchasing, pricing, and distribution functions. Decision making and problem solving skills are involved in units of human relations, distribution systems, market information management and product/service planning. Portfolio pieces may be derived from units on promotion and risk management. The employment skills learned will improve and increase the chance of successful transition into the world of work.

Web Page Design (IT130) (6000)

Grade: 11-12 Prerequisite: Computer and Technology Applications. Credits: 1 This is a beginning web design course that utilizes FrontPage in an interactive windows application environment. The course content will include working with web pages, enhancing web pages, creating tables and working with frames, working with HTML web forms, using advanced graphic features, and managing a web site. Examples of pages that will be developed are school, community, small business, personal and travel.

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Leadership Dynamics (5689)

Grade: 11-12 Prerequisite: None Credits: 1 This course is designed to prepare individuals to be successful leaders in a global society through the development of a personal philosophy of leadership. Emphasis will be placed on individuals recognizing their leadership styles and the development of skills related to team building, management, and communication. The course will provide opportunities for students to make application of knowledge and skills gained through this course.

Business Co-op (5680)

Credit Varies

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FAMILY AND CONSUMER SCIENCE

Career & Family (5930)

1 Credit Grade Level: 10-12 Prerequisite: None - This course is designed to help students realize the level of commitment required to manage career and family. It will assist students in developing the skills needed to resolve family and work issues. The extent to which a career impacts family goals, meet financial goals and reflects personal values will be explored.

Relationships & Parenting (5926)

1 Credit Grade Level: 10-12 Prerequisite: None - The Relationships & Parenting course assists students in developing self understanding, understand others better, improving interpersonal skills both within and outside the family, be more considerate of other peoples needs and property, and maintain mental and emotional wellness. Family life education comprises a portion of this course, including dating and married relationships. The major topics include becoming an informed parent, caring for the newborn, being an effective parent/caregiver, caring for the sick and elderly and exploring career opportunities in care giving. Preparations for and the achievement of a successful marriage are emphasized.

Child/Human Development (5921)

1 Credit Grade Level: 10-12 Prerequisite: None - This course addresses the practical problems related to understanding the types and stages of human growth and development, recognizing effects of heredity and environment on human growth and development in the infancy, toddler, preschool, middle childhood, adolescent, and adulthood stages. Careers in child/human development are explored.

Life Skills (5910)

1 Credit Grade Level: 9-10 Prerequisite: None - This course core competencies in all five areas of homemaking including: nutrition and foods, human development, housing and home furnishings, management and family economics, and clothing and textiles. It provides opportunity for students to decide on future areas for concentrated study.

Foods (5935)

1 Credit Grade Level: 11-12 Prerequisite: None - This course is designed to assist students in making critical decisions about food, which contributes to their overall health and well-being. Laboratory instructions is included as an application process. Practical problems addressed relate to attitudes toward food, nutrition facts, special health concerns and diets, management of food recourses, preparation skills and careers in nutrition and food service.

Culinary Skills (5924)

1 Credit Grade Level: 11-12 Prerequisite: Foods – This course is designed to provide training for employment in hospitality services in the area of food service. Career decisions and demands on family life are explored as well as skills and concepts related to supportive services such as public relations, food and beverage operations, management techniques and entrepreneurship. Instruction will include on-the-job experiences.

Career in Interiors/Furnishings (5940)

1 Credit Grade Level: 11-12 Prerequisite: None – This course provides opportunities for students to develop career competencies in the interiors and furnishings industry. Importance of the industry, types of occupations and entrepreneurial opportunities are included. Specific information regarding wall coverings, textiles, window treatments, furniture and accessories will be used to critique and develop clients’ plans for interiors and furnishings. Work experiences beginning with shadowing will be provided in a variety of work sites.

Basic Sewing (6998)

1 Credit Grade Level: 11-12 Prerequisite: None – Sewing is a fun class offered to upper level students. Basic sewing is covered from sewing on a button to hand mending of clothing. Students are given projects to complete and take home.

Food Co-op (5950)

1 Credit Grade Level: 12th Prerequisite: Teacher Approval-Cooperative Education refers to an educational program consisting of in-school instruction combined with the on-the-job work experience in a business or industrial establishment. These are planned experiences supervised by the employer to ensure that each phase contributes to the student’s individual Graduation Plan and Career Major/Clusters.

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Leadership Dynamics (5689)

1 Credit Grade Level: 11-12 Prerequisite: None- This course is designed to prepare individuals to be successful leaders in a global society through the development of a personal philosophy of leadership. Emphasis will be placed on individuals recognizing their leadership styles and development of skills related to team building, management, and communication. The course will provide opportunities for students to make application of knowledge and skills gained through this course.

COURSES FOR 2015-2016 and beyond

THE FOLLOWING FIVE (5) COURSES WILL BE TAUGHT AT PADUCAH AREA TECHNOLOGY CENTER

_____NAIL TECHNOLOGY (available in the p.m. only)

Description: Bacteriology and infection control, study of cells, structure of hand, arm and nail and their diseases and disorders; salon management. Manicuring, artificial nail procedures nail art. Students practice on classmates and then work on clients. Leads to state license exam. All students must enroll for a minimum of 2 consecutive hours.

_____AUTO BODY

Description: Auto body repair, safety practices, hand and power tools, minor dent repair, priming of body panels. Non-Structural Analysis and Damage Repair. Replacement and repair of bolt and weld on body panels; aligning, welding and cutting will be demonstrated. Hands-on practice in removal and replacement of bolt and weld on body panels. Safety stressed. Additional coursework provides advanced lab opportunities.

_____COMPUTER AIDED DRAFTING (A PRE-ENGINEERING, DRAFTING & DESIGN PROGRAM)

Description: Uses Computer Aided Drafting (CAD) software to produce advanced two-and three-dimensional object drawings. Advanced techniques of drafting, layering, and symbols associated with one or more design applications. Calculations of perimeters, areas, and mass associated with the drawings. CAD is a comprehensive, laboratory-based course which includes the fundamentals of drafting. Students will use computer graphic workstations in the application of fundamental principles and capabilities of CAD, basic drafting conventions, and operations. An in-depth study of computer aided drafting commands, terminology, command utilization, and skill development. Opportunities are provided to apply problem solving and critical thinking skills through the development of a product in a state of the art 3-dimensional printer. (PROJECT LEAD THE WAY COMPONENT)

As an added bonus—there are robotics competition opportunities available to students of CAD!

_____AUTO TECHNOLOGY

Description: This course is designed to teach the following: basic electricity; including ohms law, voltage, current and resistance; basic automotive wiring, use of symbols and electrical tests; hydraulic and mechanical principles of brake systems; introduces anti-lock brakes; engine operation and repair techniques; suspension and steering fundamentals and principles of wheel alignment; maintenance of automatic and manual transmissions; basics of automotive air conditioning; additional coursework provides advanced lab opportunities. All students must enroll for a minimum of two consecutive hours.

_____WELDING

Description: The Welding program prepares students for industry or other job related fields. Welding students are presented with the knowledge to weld various types of metal using several methods and

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processes. Students are trained in layout, blueprint reading, work orders, job site safety and estimating materials for the job.

“The welding course offers an extensive variety of knowledge to its students. Students can earn AWS (American Welding Society) certifications, which goes really far into the progression of their career. This class also offers dual credit for those who want to pursue a degree at WKCTC.”

Cutting Processes – WLD 110 and lab – WLD 111, 2 credit hours; Shielding Metal Arc Welding (SMAW) – WLD 120 & LAB (SMAW), 2 credit hours; Smaw Groove Welds with Backing Lab – WLD 123, 1 credit hour; Gas Tungsten Arc Welding – WLD 130 & LAB – WLD 131, 2 credit hours; Gas Metal Arc Welding – WLD 140 & LAB – WLD 141, 2 credit hours; Blueprint Reading with Welding – WLD 170 & LAB – WLD 171, 2 credit hours.