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**MODEL LABORATORY HIGH SCHOOL**

EASTERN KENTUCKY UNIVERSITY

521 LANCASTER AVENUE

RICHMOND, KENTUCKY 40475



**2017-  
2018**

**A MODEL FOR  
EXCELLENCE™  
MODEL LABORATORY HIGH SCHOOL:  
Course Catalog**

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**Model Laboratory High School Course Catalog**

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# MODEL LABORATORY HIGH SCHOOL PROFILE

## ABOUT OUR SCHOOL -

Model Laboratory School, established in 1906, demonstrates the uniqueness of a campus laboratory school in providing a quality school program. Model is the primary field site of Eastern Kentucky University for the training of pre-service teachers. Its faculty provides leadership to the education community through in-service, curriculum development, and research. It is the only comprehensive laboratory school affiliated with a state university in the Commonwealth of Kentucky.

Classified as a public school, student admission is open. Approximately sixty students per grade level can be served by the school. A nominal tuition fee is assessed. The facility houses pre-k through twelfth grade. Currently, approximately one-third of the students enrolled are Eastern Kentucky University dependents. The balance of the school population comes from the surrounding communities.

Almost all the faculty meet minimum requirements of a Master's Degree and successful prior teaching experience. They fulfill the role of Master Teacher, while consulting, providing professional and educational services, and conducting research.

The curriculum is college preparatory to meet the needs of the graduates who attend college. In addition to the strong basic academic program, Model Laboratory School offers a variety of opportunities in the fine arts, applied arts, and vocational school options. Accelerated students take one or more college courses during their Junior and Senior years. Special education teachers serve the needs of identified students. A Gifted/Talented Program is in place to provide opportunities to G/T students in an effort to enhance and enrich their education.

A strong extended-school tutoring program is in place. Model offers a wide variety of activities for student involvement, and all students are required to participate in school sports or clubs. Fifteen varsity sports are offered for both boys and girls at the high school level. Finally, all students are required to complete 10 hours of community service per year in attendance at Model as part of their graduation requirements.

### **K-Prep**

Senate Bill 1 (SBI), enacted in the 2009 Kentucky General Assembly, requires a new public school assessment program beginning in the 2011-12 school year. These assessments are collectively names the Kentucky Performance Rating for Educational Progress (K-Prep) tests. The program is comprehensive and includes PLAN, ACT, On-Demand Writing, and End of Course assessments at the high school level. Graduation rate and successful transition to post-secondary options are also included in school ratings. Model Laboratory High School has consistently ranked among the TOP 10 schools statewide on Kentucky assessments.

### **GRADING SCALE**

92	-	100	A
83	-	91	B
74	-	82	C
65	-	73	D
0	-	64	U

### **ACCREDITED BY**

1. Kentucky Department of Education
2. Southern Association of College and Schools

### **CLASS RANK**

Includes all students/classes.

### **HIGH SCHOOL FORMAT**

1. Modified Block Schedule
2. Students are enrolled in 4 semester courses and 4 year-long courses, for a total of eight possible credits.
3. Semester courses are 90 minutes in length. Year-long courses are 50 minutes in length.
4. All classes meet Monday-Friday.
5. Classes are taught as advanced level.
6. Dual credit is available through Eastern Kentucky University

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**MODEL LABORATORY HIGH SCHOOL  
GRADUATION REQUIREMENTS**

<p><b><u>English/Language Arts.....5 credits required</u></b>            English I.....1.0            English II.....1.0            English III.....1.0            English IV.....1.0            English V: Writing and Research.....1.0</p>	<p><b><u>Health.....1/2 credit (.5) required</u></b>            Health 9  <b><u>Physical Education.....1/2 credit (.5) required</u></b>            P.E. 9</p>
<p><b><u>Mathematics.....4 credits required</u></b>            Algebra .....1.0            Special Topics Algebra..... 1.0            Geometry..... 1.0            Algebra II..... 1.0  <i>Math class must be taken each year of high school.</i></p>	<p><b><u>History and Appreciation of the Visual &amp; Performing Arts.....1 credit required</u></b>            Arts and Humanities</p>
<p><b><u>Science.....3 credits required</u></b>            Earth/Space Science.....1.0            Biology.....1.0            Physical Science.....1.0            (Chemistry, Physics, or Integrated Physical Science)</p>	<p><b><u>Foreign Language.....2 credits required</u></b>            Spanish is offered at Model  <i>(Students must take two credits of the same foreign language. Students may take different language courses at ECU to meet this requirement-See counselor for details.)</i></p>
<p><b><u>Social Studies.....3 credits required</u></b>            Integrated Social Studies.....1.0            World Civilization.....1.0            U.S. History.....1.0</p>	<p><b><u>Electives.....9 credits required</u></b></p>

**DUAL CREDIT:**

Students may take ADDITIONAL general education courses at ECU for dual credit. High school credit will be awarded for all dual credit coursework at the end of each term. *All final college coursework will be added to high school transcript.*

**TOTAL CREDITS: 28**

**GRADUATION REQUIREMENT SUMMARY**

1. Successful completion of 28 credits in a planned program of study.
2. Attend high school for 8 semesters.
3. Successful completion of an Individual Learning Plan (ILP).
4. Successful completion of the Senior Research Project and Presentation.
5. Participation in at least one School-Sponsored Activity (club or sport) each year of high school.

**ACT College Readiness Benchmark Scores**

<b><u>Test</u></b>	<b><u>College Courses</u></b>	<b><u>ACT (11th)</u></b>
English	English Composition	18
Math	Algebra	19
Reading	Social Studies	20
Science	Biology	23

All Kentucky high schools are held accountable for helping students achieve the ACT benchmark scores as listed above.

**(EOCs) State Mandated End of Course Exams**

All students are required to take End-of Course exams in specified courses which will count as 20% of their course grade. Specified courses are:

<b>Biology</b>	<b>English 2</b>	<b>Algebra 2</b>	<b>US History</b>
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**KHEAA & KEES Amounts**

Kentucky high school students have a great opportunity to make their education pay with the Kentucky Educational Excellence Scholarship (KEES)! KEES is administered by the Kentucky Higher Education Assistance Authority (KHEAA). Students who try to get the most from high school by studying hard and making good grades can earn scholarships for Kentucky colleges or technical schools. Students who continue to make good grades in college can retain their scholarships for up to four years. Students who complete their college studies or technical training have a better opportunity to achieve their career goals and improve their standard of living. Education really does pay!

For each year a student earns a 2.5 or better GPA, you can earn the base amount listed below. For instance, a high school freshman who earns a 3.5 GPA would have a \$375 scholarship for each year of college. Amounts may change based on

You can earn a bonus award for an ACT score of 15 or above. For example, a KEES-eligible student who has a score of 25 would earn an additional \$393 for each year of college.

<b>GPA</b>		<b>Amount</b>		available funds.	<b>ACT Score</b>		<b>Bonus</b>	
2.50	\$125	3.30	\$325		15	\$36	22	\$286
2.60	\$150	3.40	\$350	16	\$71	23	\$321	
2.70	\$175	3.50	\$375	17	\$107	24	\$357	
2.75	\$187	3.60	\$400	18	\$143	25	\$393	
2.80	\$200	3.70	\$425	19	\$179	26	\$428	
2.90	\$225	3.75	\$437	20	\$214	27	\$464	
3.00	\$250	3.80	\$450	21	\$250	28+	\$500	
3.10	\$275	3.90	\$475					
3.20	\$300	4.00	\$500					
3.25	\$312							

## EKU Dual Credit

### **Eligibility and Tuition Acknowledgement 2015/16 Academic Year ECU Dual Credit Criteria**

Students who meet the criteria stated below are entitled to enroll in two ECU courses per semester (fall/spring) at the dual credit tuition rate (\$65 per credit hour—\$195 for a 3 credit hour class). Limited Summer enrollment will be accepted for rising seniors.

- You must be a junior or senior in high school residing in Kentucky.
- You must have a high school GPA of 3.0 and ACT scores on file with ECU at the time you apply for the program.
- You must have minimum ACT scores of 18 in English, 20 in Reading and a Composite ACT score of 21 at the time of application to the program\*.
- Your high school must be a participating partner.
- A score of 22 in Math on the ACT is needed to take MAT 114/122.

### **Additional Fees and Charges**

- Dual Credit students are responsible for the cost of textbooks, parking, permits, associated course fees and late registration fees if applicable.
- Dual Credit students enrolling in two courses in the fall or spring semesters, or more than one course during the Summer II term, will be charged full undergraduate tuition for the additional courses. A maximum of 8 courses in total may be taken at the dual credit tuition rate (including ECU NOW! And Whitlock Scholar Candidates).

**Dual Credit Scholarships**—*All Dual Credit applications will be reviewed for scholarship qualification.*

- **ECU Now!** – ECU Dual Credit students with a 3.0 high school GPA, plus minimum ACT/PLAN scores of 18 in English, 19 in Math, 20 in Reading and a 21 Composite are eligible to receive free dual credit tuition for one of the two allotted courses per semester.
- **Whitlock Scholar Candidates** – ECU Dual Credit students with a 3.5 unweighted high school GPA and minimum ACT scores of 18 in English, 19 in Math, 20 in Reading and a 23 Composite are eligible to receive free dual credit tuition for the two allotted courses per semester. *PLAN scores are not considered for scholarship eligibility.*

*KYOTE or COMPASS test scores may be substituted if ACT sub-scores do not meet minimum requirements.*

### **EKU Dual Credit Continuing Participation**

EKU Dual Credit students rarely make D's and F's in their classes; however, you should know that continued participation in ECU's Dual Credit Program is dependent upon successful completion of courses. Dual Credit students are expected to maintain a 2.0 minimum cumulative ECU GPA. Students who earn a "D" or "F" in a course(s) will be required to successfully repeat the course(s) and earn a 2.0 term GPA in order to continue in the Dual Credit Program. Students who elect to repeat a course will contact the Office of the Registrar for registration approval and assistance. Courses repeated by ECU Dual Credit students are subject to the full dual credit tuition charge.



# ENGLISH

## **2301077      English I      (9th)**

**1.0 Credit**

English I 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. Assignments will emphasize critical, analytical, and creative thinking. Students will also study vocabulary development and basic grammar. Students will address reading, writing, and thinking skills through a semester-long examination of the self; students will use the literature as focal points for this study. Units will include the Short Story; *The Odyssey*, Homer (with Mythology); Poetry; *Romeo and Juliet*, William Shakespeare; *Alice's Adventures in Wonderland*, Lewis Carroll; *Night*, Elie Wiesel; *Of Mice and Men*, John Steinbeck; *The Little Prince*, Antoine de Saint Exupery; *To Kill a Mockingbird*, Harper Lee; *Lord of the Flies*, William Golding; and a culminating project.

## **2301100      English II      (10th)**

**1.0 Credit**

Upon successful completion of this course students will be able understand and interpret multiple forms of written material, compose thoughtful well balanced essays, and develop/maintain a personal web presence. Students work on vocabulary development and grammar skills. Students will complete projects dealing with: Digital Essays, Personal Narratives, Article Reviews, Poetry, and Independent Summer Readings. Units will include: Ancient Literature and Religious Texts (Babylonian, Hebrew, Christian, Islamic, Hindu, Buddhist), Classic Literature (The Iliad, The Aeneid, Tacitus, Thucydides), Medieval and Renaissance Literature (Decameron, The Nibelungenlied, Le Morte d'Arthur, Dante's Inferno) Shakespeare's Julius Caesar, Modern Literature and Media (Maupassant, Goethe, MLK, Gandhi, Tolkien, Michael Jackson) This class does require the completion of an End-of-Course exam as per Kentucky law.

## **2301133      English III      (11th)**

**1.0 Credit**

English III is a survey course of American literature designed to enhance the student's perspective on self and society and to strengthen skills in reading, writing, vocabulary, and literary interpretation. Assignments will emphasize critical, analytical, and creative thinking. Students will address concepts of grammar and composition through attention to Strunk & White's *The Elements of Style, Fourth Edition*. The course is taught as part of an integrated block with U. S. History. The literature component of the class will frame the curriculum: students will examine American literature from colonial writers to contemporary writers, with an emphasis on major schools of literature in the development of the American tradition. Major movements and works studied in the course include Transcendentalism; Romanticism; the Modern Short Story; Modern Poetry; *The Crucible*, Arthur Miller; *The Glass Menagerie*, Tennessee Williams; *Our Town*, Thornton Wilder; *Ellen Foster*, Kaye Gibbons; *As I Lay Dying*, William Faulkner; and *The Great Gatsby*, F. Scott Fitzgerald. In the course of the semester, students will complete two projects: a school-to-work transition project and a literary research project.

***PREREQUISITE: Students must successfully complete English II in order to take English III.***

## **2301166      English IV      (12th)**

**1.0 Credit**

This course is the study of the English language and English literature from the Anglo-Saxon period through the 20<sup>th</sup> century. The literature component of the course emphasizes drama, poetry, the novel, Shakespeare and selected nonfiction. Students receive instruction in the English language through writing,



which includes the coverage and practice of advanced skills in language mechanics (ACT Prep.), vocabulary, grammar, sentence structure and organizational skills. The writing of functional, academic, creative and documented essays is a major component of the language instruction. Oral training encompasses experience with small group dynamics, oral interpretation of literature and various types of speeches, as well as preparation and execution of formal class discussions. The Senior Project will give students a chance to choose their own area of study, combining knowledge and skills from various academic disciplines. Students will gather a knowledge foundation by researching secondary and primary sources in order to write a research paper. Students will complete a project (product) demonstrating application of some aspect of their research. The Senior Project will culminate in a presentation of research findings and presentation of research product.

**230402                      English V: Writing/Research                      (12th)                      1.0 Credit**

This fifth English course refines the students' skills as they complete their study of British literature. This course is designed to teach students advanced research skills as they explore a topic of their choice. There are four major components of this course: 1) writing a 20 page research paper; 2) developing an approved product related to the research to be discussed at presentation; 3) delivering a 15 minute formal presentation; 4) Students must engage a mentor in their research process, someone who is professionally involved in their topic area in some way and must be over 21 years of age. Your mentor may not be a relative. Students are completely responsible for securing an approved mentor. Course Objectives: Students shall: develop their research and writing skills to a college-ready level; augment their knowledge in a subject area of their choosing; analyze and evaluate a variety of sources for credibility and usefulness; further develop critical thinking skills by synthesizing and organizing information and learn to collaborate with a mentor in a particular field of study.

**239111                      Journalism/Digital Productions                      (9th-12th)                      1.0 Credit**

This course is designed to teach students the elements of journalism and digital media skills. Students will write, revise, edit, and proofread articles, features, and editorials for the weekly newscast and online newspaper The Model Observer. They will also produce, layout, and publish the yearbook. Students are expected to manage aspects of production, including sales and promotion. Journalism is a laboratory experience. Each student will complete requirements in the following areas: Reporting, Interviewing, Copywriting, Editing, Computer Skills, Layout, Photography, Marketing/Sales, Civics & Ethics. Also, each student will complete a portfolio of work that will include writing and digital work in several genres.

**239112                      Journalism/Digital Productions II                      (11th-12th)                      1.0 Credit**

See description for Journalism/Digital Production I.

*Prerequisite: Journalism I and/or English II*

**230599                      Creative Writing                      (9th-12th)                      1.0 Credit**

Creative Writing is designed to introduce the student to the process of creating short fiction and poetry. Students will work on the elements of fiction as well as the mechanics and the practical concerns of writing. Students will write, revise, and edit manuscripts. Students will also keep a journal, to include a reading log of assigned reading. The class will address the following units as they apply to the short story and to poetry: Character, Plot, Method of Narration, Setting, Symbol, Irony, Poetic Language, and Genres. Students will participate in public readings of their work, and each student will submit samples of his/her work for publication.

**480901                      Film/Lyrics                      (9th-12th)                      1.0 Credit**

Watching movies is fun. Listening to music is fun. This course is designed to allow students to watch movies and listen to music and to deepen their appreciation of both experiences by developing their understanding of each medium. This course will survey the history, evolution, process, and product of film

and lyrics. The course will examine song lyrics as poetry and as a social medium and film as narrative medium. Students will watch a variety of movies with attention to elements of film (mise-en-scene, sound, editing, acting, direction). They will listen to lyrics, examining them as poetry (in relation to the music).

**500511 Introduction to Theater (9th-12th) 1.0 Credit**

This is a survey course that establishes the base for the study of drama and theatre. It encompasses theatrical vocabulary, elements, conventions, and basic concepts, historical and cultural backgrounds, experiences that develop a broad-based body of knowledge and technical skills, and strategies for evaluating theatre experiences. In addition, student will read and view a variety of plays, prepare and perform a full-length play for the public during the fourth term.

## MATHEMATICS

**270304 Algebra I 1.0 Credit**

This is an introductory algebra course that explores the properties of real numbers. Students will master linear equations. Students will learn how to solve, graph, and write linear equations, as well as solve and graph linear inequalities. Students will also be introduced to quadratic and polynomial functions. Students will also be introduced to quadratic and polynomial functions.

**270401 Geometry: 1.0 Credit**

This course includes basic concepts of geometry, reasoning and proof, parallel and perpendicular lines, congruent triangles, quadrilaterals, similarity, area, surface area, volume, circles, and an introduction to trigonometry.

*Prerequisite: Algebra I*

**270601 Special Topics in Algebra 1.0 Credit**

This is an intermediate algebra course that consists of the content from the first half of the Algebra II book and specific topics in Geometry. It includes a review and extension of the content from Algebra I, plus solving and graphing systems of equations and inequalities, and basic matrix properties and operations.

*Prerequisite: Algebra I, Geometry*

**270311 Algebra II 1.0 Credit**

This is an advanced algebra course that consists of the content from the second half of the Algebra II book. Covered concepts may include quadratic functions, polynomial functions, powers, roots, radicals, exponential functions, logarithmic functions, probability, sequences, and series. This class will require successful completion of an EOC that will be 10% of the students' grade.

*Prerequisite: Special Topics in Algebra*

**270309 Integrated Math 1.0 Credit**

The purpose of this course is to help students transition from high school to college mathematics by reviewing the algebra concepts taught throughout high school. Students taking this class will strive to improve college math placement test scores to avoid placement in developmental mathematics courses in college. The assessments, textbook, and instructional materials are based upon those of ECU developmental math classes and students will have the opportunity to take the ECU math placement exam three times during the course. Students who did not meet the ACT benchmark will be placed in Integrated Math during their senior year.

**270501 Pre-Calculus 1.0 Credit**

Pre-Calculus is a preparatory course for the study of calculus as well as college algebra. Topics routinely studied include: rigorous algebra review, functions (polynomial, rational, exponential, and logarithmic), unit circle, trigonometric relationships, identities, laws of sine and cosine, sequences, series, and probability. All of these topics are explored as they relate to the study of calculus. (1 credit course)

***Prerequisite: Algebra II***

**27051 Calculus 1.0 Credit**

Calculus is the initial course in the study of Calculus. Major topics studied will include: advanced functions (polynomial, exponential, logarithmic, and trigonometric), limits, derivatives, and integrals. Each of these topics will be studied at a rigorous level comparable to a college level calculus course. (1 credit course)

***Prerequisite: Pre-Calculus***

## **SCIENCE**

**304611 Earth-Space Science (9th) 1.0 Credit**

Earth-Space Science is a required course for Freshmen that deals with the study of our changing planet and its place in the cosmos. In accordance with the Next Generation Science Standards, this course will analyze evidence from the Big Bang Theory through the formation of the Earth. Students will also learn about the history of Earth, the relationship between life and changes on the Earth, and how humans have affected and are affected by these changes. Students will complete creative projects, work through mathematical applications, and participate in an assortment of group activities. (1 credit)

***Required for Freshman***

**302601 Biology (10th) 1.0 Credit**

Life Science is a required laboratory course examining all aspects of life on earth, including units on heredity, unity and diversity, interrelationships, and energy. Students will analyze life processes by first looking at chemical and cell structures, then body systems, and finally interrelationships between the organisms in a specific ecosystem. Student understanding will be developed through inquiry, lecture, and



**3026311 Human Anatomy/Physiology (11th-12th) 1.0 Credit**

Human Anatomy and Physiology is a rigorous elective course focused on the relationship of structure to function in human body systems. Topics of study include organic chemistry, cell structure, and body systems. Dissection and inquiry learning will be used in understanding the relationship between physiology and anatomy.

*Prerequisite: Biology*

## **SOCIAL STUDIES**

**459801 Integrated Social Studies (9th) 1.0 Credit**

The purpose of this class is to help you better understand government, economics, and cultural identity. As a group, we will investigate the principles essential for understanding government and civic responsibility, research ways to become better and more involved citizens, and analyze basic micro-/macro-economic policies. Upon successful completion of this course students will be able to relate different forms of governments, understand basic economic theory, discuss cultural and political realignments, and converse about the relationship between economic policy and the average citizen. Units of study will include but not be limited to: US Constitution, Madisonian Government, Elements of Supply and Demand, Means of Production, Socialist Democracies, Communist Societies, and Constitutional Republics.

*Recommended for Freshman*

**450837 World Civilization: Renaissance to WWII (10th) 1.0 Credit**

This course will introduce history from a global perspective, examining geographic, economic, governmental, religious/philosophical, scientific/technological, sociologic, and humanities aspects of the development and interaction of world civilizations post 1300 BCE through the First World War. This integrated course will focus on growth of civilizations leading to the emergence of nation states throughout the world. The study of the age of democratic revolutions will act as a transition to United States history, and will focus especially on the interconnected material developments of and in these civilizations en route to the World War II. There are three principal goals for the students in this course: 1) to learn to think critically about the past and be able to formulate a coherent argument about history; 2) to amass a basic understanding of major events in modern world history and, 3) gain a sense of the interconnectedness of historical processes and historical events around the world. History is not simply a collection of events, cataloged for future reference. It is an argument about the past made in the context of the present. How that argument is made says as much about historians (and society) today as it does about the past it explores.

*Recommended for Sophomores*

**450809 U.S. History (11th) 1.0 Credit**

The purpose of this class is to help you better understand the idea of modern United States. During this class, we will do more than study history and geography. Upon successful completion of this course students will be able to relate periods of US history to current events. Students will also be able to compare and contrast currents within time periods; such as, economic growth, cultural shifts, and political realignments. The time periods that will be emphasized are: Revolution, Antebellum America, Industrialization, Imperialism, World Wars I and II, Cold War, and Globalization. This class does require the completion of an End-of-Course exam as per Kentucky law.

*Recommended for Juniors & Foreign Exchange Students*

**459901 Psychology/ 451121 Sociology (11th-12th)**

**.5 Credit/.5 Credit**

The purpose of this class is to help you better understand what it means to be a person. While participating in this class, you will look into the history of psychology and investigate different types of psychological disease/neurosis. Upon successful completion of this course students will be able to differentiate types of psychological study and prognosis. This course also provides a broad overview of sociology and how it applies to everyday life. Major theoretical perspectives and concepts are presented, including sociological imagination, culture, deviance, inequality, social change, and social structure. Students also explore the influence of social class and social institutions, such as churches, education, healthcare, government, economy, and environment. The family as a social structure is also examined.

**4510399 United Nations/Law & Justice (9th-12th)**

**1.0 Credit**

United Nations is the study of the physical and cultural geography of selected member states in the organization and their relationship to key issues being examined by the organization. Students will also examine the functions and roles of the United Nations in the contemporary world. Emphasis is placed upon the process and issues of policy making. Students may participate in a Model United Nations as representatives of a member state. This participation may require a commitment of time beyond the regular class schedule.

**4508351 Ancient History (Ancient Egypt, Rome, Greece, and China)**

**1.0 Credit**

This course is an essential primer in ancient civilizations and cultures, including the accuracy of current popular perceptions of the ancient, as well as its legacy and impact on the modern world. Using ancient texts and material culture as a basis, this course surveys the political and social history of ancient Egypt, Rome, Greece, and China from the Neolithic to The Ptolemies (7000-30 BC). Topics include: anthropological origins and ethnicities, political and historical development, geography, social institutions, status of women, religion and magic, daily life activities, language and writing, and more. The class will also consider how the modern west interprets Egypt, Rome, Greece, and China as a major contributor to the development of western civilization, viewing itself in many ways as a legitimate heir of its culture, while at the same time it categorizes much of it as culturally alien and otherly.

**450707 World Geography/ 451038 Global Issues (9th-12th)**

**.5 Credit/.5 Credit**

In World Geography, students will explore the basic aspects of geography and modern applications of Geographic Information Systems (GIS). This will include developing and understanding maps based on topography, politics, economics, and social change. Students will also learn core elements of orienteering and participate in student led activities. As part of Global Issues, students will engage in the research and study of modern occurrences and trace their histories. This will include but not be limited to Pan-Arabism, effects of post-colonialism (sub-Saharan Africa, Southeast Asia, Central America), global terrorism, and regionalism vs supranationalism. Students will also be able to compare and contrast currents within time periods; such as, economic growth, cultural shifts, and political realignments.

**450712 AP Human Geography (Advanced Placement) (9th-12th)**

**1.0 Credit**

The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice.

*AP Exam available .*

# FOREIGN LANGUAGE

**161108 Spanish I 1.0 Credit**

Spanish 1 begins to develop the skills students need in order to communicate with Spanish-speaking people. Acquisition of vocabulary is a primary focus; additionally, students will acquire some knowledge of elementary grammar and sentence structure which should assist them in communicating in real life situations with other Spanish speakers. Course goals and activities are centered on national standards and Kentucky's Content for World Languages. We will focus on Communication, Communities, Culture, Connections and Comparisons. A variety of materials and methods will be used in addition to the textbook, such as audio recordings, videotapes, newspapers, magazines, websites, and other authentic examples of the language whenever possible. Students will develop four basic skills which make communication possible: speaking, listening, reading and writing. In addition to their study of the Spanish language, students will explore Hispanic culture to gain a greater understanding and appreciation of the people who speak the Spanish language. Cultural studies will be integrated as much as possible into the activities students will do. Students should expect to do some research projects, oral presentations, and realia in regard to cultural topics.

**161109 Spanish II 1.0 Credit**

Spanish 2 continues to develop the skills acquired in Spanish I as students increase their communication skills. Acquisition of vocabulary continues to be a primary focus; additionally, students will improve their knowledge of elementary grammar and sentence structure which should assist them in communicating in real life situations with other Spanish speakers. Course goals and activities are centered on national standards and Kentucky's Content for World Languages. We will focus on Communication, Communities, Culture, Connections and Comparisons. Students should expect to research projects, oral presentations and realia to explore cultural topics and demonstrate what they have learned about the culture as well as their ability to communicate their learning in Spanish.

*Prerequisite: Spanish I*

**161110 Spanish III (11th-12th) 1.0 Credit**

**161111 Spanish IV (11th-12th) 1.0 Credit**

Spanish 3 & 4-AP continues to develop the communication skills acquired in previous levels. In addition to adding to the vocabulary base, improving knowledge and control of the grammar and structure of the language and broadening knowledge of Hispanic culture, Spanish 3 & 4-AP will prepare students to take the Advanced Placement exam and qualify for the Kentucky Commonwealth Diploma. Producing speakers who are proficient enough to communicate on a complex level with native speakers in real-life situations is also a goal of this course. Students will be expected to use Spanish exclusively during class. There will be several projects that involve oral presentations (in Spanish of course) as well as writing in Spanish for real-world purposes.

*Prerequisite: Spanish II*

**161126 Comparative Languages/Cultures 1.0 Credit**

This class will provide an understanding of cultural diversity, and in particular a sound knowledge of the cultural context of the language(s) studied; intercultural sensitivity, together with the perspectives and skills which promote intercultural communication; a capacity for critical thinking, and the ability to articulate ideas and arguments. Consolidate position as a starting point for excellence in research into lan-

guages and cultures within the Model, Richmond, Central Kentucky, Kentucky and the wider national and international contexts.

The linguistic/cultural context will include French (129 million speakers), Portuguese (191 million speakers), Arabic (246 million speakers) and Spanish (392 million speakers). Students will learn to navigate each language and their relation to one another, history, geography and culture.

## **ARTS & HUMANITIES**

### **500912 History/Appreciation of the Visual and Performing Arts (10th) 1.0 Credit**

The content in history and appreciation of visual and performing arts included the disciplines of dance, music, and art combined with humanities. A variety media and participatory activities are blended to provide a connection among periods and styles. Students become aware that time, place and society influence the arts and humanities and that different people share common experiences and attitudes. The main focus is to enable students to respond to all art forms through describing, analyzing, interpreting, evaluating and considering the arts as significant human achievements.

{Music portion} In this course students will learn about the history of music from Greek and Roman times through the twentieth century.

{Art portion} The visual arts section is designed to provide an overview of the history of art and artists from Renaissance through Modern period. This class looks at the reasons for art-making and connections to society. Connections are made to our contemporary lives through the creation of personal artwork that holds meaning for the student.

## **ART**

### **500711 Visual Art 1 (9th) 1.0 Credit**

This course is a projects-based exploration of visual arts, and is a year-long class. Throughout the year students will explore projects in a wide variety of media including, but not limited to, drawing, painting, printmaking, ceramics and sculpture. Students will use knowledge of the elements of art and the principles of design and explore and develop artistic skills and creative thinking. Students will have regular sketchbook homework and will spend the majority of the class time creating. Students will also explore some art history and art criticism, as they relate to our work. The emphasis of this class is on art production and creation, but a familiarity with the vocabulary of art and exposure to speaking, writing and thinking about art are essential to the studio experience. All of these skills will prepare students for the study of art at a higher level as well as for creative thinking and problem solving, 21<sup>st</sup> century skills that are highly beneficial in our society today.

### **500719 Visual Art 2 (10th-12th) 1.0 Credit**

This course is a semester-long block class and in it students will build on the skills and concepts learned in Visual Art 1. Students should be prepared for increased expectations in quality of work as well as in work ethic. Throughout the semester students will explore advanced projects in a variety of media including, but not limited to, drawing, painting, printmaking, ceramics and sculpture, as well as continue regular sketchbook practice. Students will be expected to develop and expand upon their original work and use original ideas within projects to explore personal expression. As in Visual Art 1, students will be expected to write about and discuss art, art history and art criticism as it relates to the curriculum, skills that will prepare students for continued study in any area.

***Prerequisite: Art 1***



**5007521      **Advanced Art**      **(11th-12th)**      **1.0 Credit****

This course is a semester-long block class and in it students will continue to build on skills and concepts learned in Visual Art 1 and 2. Students in this class should expect an advanced and more independently focused exploration of visual arts, and will be expected to demonstrate a high level of self-discipline and artistic practice. Students will work individually with the instructor to create a body of work that will be used to create a portfolio and/or display at the end of the semester, and may be used for admission into or scholarships for college. Students will also continue regular practice in sketchbooks. As in all art classes, students will be expected to write about and discuss art, art history and art criticism as it relates to the curriculum, skills that will prepare students for continued study in any area.

*Prerequisites: Art 1 & Art 2*

**500716      **AP Studio Art: Drawing**      **(11th-12th)**      **1.0 Credit****

This course is a highly advanced and fast-paced exploration of visual arts, and is a one semester block class. Each student will work independently with the instructor to develop a series of works of art. This body of work, or portfolio, will be reviewed and graded by Advanced Placement (AP). Students will work regularly in sketchbooks. This class is rigorous and fast-paced, and students should be prepared to complete some projects outside of class time. Portfolios created for the AP may also be used as part of developing a portfolio for admission into or scholarships for college. As in all art classes, students will be expected to write about and discuss art, art history and art criticism as it relates to the curriculum, skills that will prepare students for continued study in any area. Students may choose to take this course for two consecutive semesters in order to prepare for AP Portfolio submission.

*Prerequisites: Art 1 & Art 2, Instructor Approval*

**5007133      **Ceramics/Sculpture**      **(11th-12th)**      **1.0 Credit****

This course is an exploration of the sculptural and functional art of clay, and is a year-long class. Throughout the year students will explore projects using a wide variety of clay techniques. Students will use pinching, coiling and slabs to create works of art, and will be introduced to throwing on the pottery wheel. Students will have regular sketchbook homework, and will spend the majority of the class time creating. As in all art classes, students will be expected to write about and discuss art, art history and art criticism as it relates to the curriculum, skills that will prepare students for continued study in any area.

*Prerequisite: Students must be in 11<sup>th</sup> or 12<sup>th</sup> grade*

## **Choral & Instrumental Music**

**500925      **Chorus**      **(9th-12th)**      **1.0 Credit****

This course is a performance class where students perform music from a variety of genres; Renaissance to Broadway. There are many opportunities for solos as well as choral singing. This course prepares students for concert performance in the fall and spring in addition to ball game performances and occasional field trips to sing for nursing homes and other care facilities. Additionally, the high school choir usually sings pop/Broadway music for the Show Choir performance in the spring. We work on sight singing, learning to read music and vocal technique in this class. Singing is a life skill! If you like to sing, you will enjoy this class.

**500928                      Music Theory and Composition                      (11th-12th)                      1.0 Credit**

This course in basic music theory and composition would examine the basics of music notation including Keys (major and minor), Modes, cadences, intervals, listening skills, music forms, and would include opportunities to use information through composition. Students do not need prior knowledge in music theory to take this class as it would be a beginning theory class.

**500914                      Band                      (9th-12th)                      1.0 Credit**

The High School Band is open to students in grades 9-12 who have demonstrated the prerequisite musical skills to successfully participate in this course. Activities may include formal concerts, parades, athletic bands, concert band assessment festivals, graduation ceremony band, solo and ensemble festivals, and other community based performance opportunities. Band students are eligible to audition for participation in the Bluegrass All-Regional Band, the KMEA All-State Band, and other college honor bands. Band is a co-curricular class requiring performance participation at all band class concerts outside of school hours as a graded part of the course requirements.

**500923                      Introduction to Guitar (9th-12th)                      1.0 Credit**

Intro to Guitar is designed for brand new guitar students. It will start with the very basics of the instrument. This will include chords, fretting, tuning, and technique. This class will focus primarily on building those basic skills and to give the student a solid starting point if they wish to pursue the instrument further. Students will need to supply their own instrument for this class.

## **BUSINESS EDUCATION**

**070743                      Advanced Computer/Tech Applications                      (9th-12th)                      1.0 Credit**

Students will develop skills needed to make professional documents, presentations, web sites, videos, photos, and to confidently communicate their ideas in a technology rich world. Students will also learn/review techniques for keyboarding, a skill for life. Course skills will include, Creating, Editing, Saving, Printing, and reviewing documents, File Management and Creation, Zipping and Condensing files, Photoshop and Gimp – Photo Editing, Microsoft Office – Word, PowerPoint, Excel, Publisher, Windows Movie Maker – Download the correct version for free from website, How to know a legit file for download vs. a corrupt file, CREATING Tables and Formatting, Communication Formal documents, letters, modified block letters, Reports, APA and MLA, Cover pages, Table of Contents, Agendas, Memos, Adding Animation, custom animation, transitions, sound, video, to PPT's, Linking, Embedding, coding, creating web pages and web sites, Dreamweaver for web creation, Word for a basic web creation and online free web, Creating spreadsheets, linking spreadsheets, formulas, charts, graphs, Excel, Access, database, creating, sorting, filtering, primary key, Publisher, business cards, flyers, newsletters, brochures, menus, marketing Prezi, creating, presenting, Pro Premiere video editor, and FL Studio, audio creation

**Fall: Freshman and Sophomores**

**Spring: Juniors and Seniors**

**060112                      Digital Literacy                      (9th-12th)                      1.0 Credit**

Multimedia Publishing - working with photo editing, video editing, storyboard animation, publishing applications, and 3D animation. This class focuses on digital publishing creations for marketing a business. We study local businesses and develop online critiques and web sites, and marketing critiques for the businesses. If time allows, create an individual product, business, and go through the marketing process and trademark process.

**0601222                      Financial Accounting (11th-12th)                      1.0 Credit**

This class covers the essentials steps in accounting for businesses, how to process transactions, fill out general journals and ledgers, how to post individual entries, and how to close entries. Students will use standard ledgers and journals, as well as computerized accounts. The students will also learn how to fill out current IRS tax forms and how to reconcile bank statements.

*Prerequisite: Juniors and Seniors only*

**060170      Financial Literacy      (11th-12th)      1.0 Credit**

This course starts with covering a personal career interest, creating a realistic career timeline, compiling a career portfolio, and performing mock interviews. The class will then focus on calculating net pay, understanding employment laws, comprehending IRS tax forms, creating a personal budget, vacation budget, buying a car, savings options, credit options, auto ownership, leasing an apartment vs. buying a house, insurance needs, investment options, and retirement.

**110701      AP Computer Science A      (9th-12th)      1.0 Credit**

Grade Level: 11 - 12 Credits: 1 Description: AP Computer Science is designed to teach students with an interest in computer programming how to use the Java programming language. During this course, students will learn about object-oriented programming, program implementation through classes, program analysis, data structures, algorithms, and ethical computing responsibility and use. Content: AP Computer Science

**1107011      AP Computer Science Principles      (9th-12th)      1.0 Credit**

Grade Level: 10 - 12 Credits: 1 Description: AP Computer Science Principles is designed to introduce students to the central ideas of computer science, to instill ideas and practices of computational thinking, and to have students engage in activities that show how computing changes the world. The course is rigorous and rich in computational content, includes computational and critical thinking skills, and engages students in the creative aspects of the field. Through both its content and pedagogy, this course aims to appeal to a broad audience. Content: Computer Science Population: General

## **Health & Physical Education**

**3401333      Health 9      (9th)      1.0 Credit**

Students will investigate the following topics in this 9 weeks class: Mental and Emotional Problems, Communicating for Healthy Relationships, Goal setting, Physical Activity & Weight management, Advanced 1<sup>st</sup> aid and Safety, Cancer Awareness, Nutrition, STD's, Tobacco, Alcohol, and Other Drugs.

**3402166      P.E. 9      (9th)      1.0 Credit**

This course will focus on providing knowledge, skills, and practice to help students become prepared for and understand the importance of lifetime physical fitness. We will focus on sportsmanship and these components of health-related fitness: aerobic endurance, muscular strength, muscular endurance, body composition and flexibility. We will also incorporate teamwork and cooperation. We will cover a variety of team and individual sports and activities throughout the 9-week course including: Disc Golf, Ultimate, Hockey, Lacrosse, Volleyball, Badminton, and group fitness.

**340271      Women's Fitness      (10th-12th)      1.0 Credit**

This course is designed to provide a place for female students to set and work toward personal fitness goals. Lots of varying opportunities will be explored to help students stay active for life and understand their ability to set and achieve goals pertaining to their own health. Activities will be dependent upon

availability of facilities and could include: Weight Training, Aerobics, Swimming, High Intensity Interval Training (HiIT), team sports, individual and dual sports, Group Fitness, etc.

**340223      Fundamentals of Sports/Exercise      (10th-12th)      1.0 Credit**

Athletic Training/Careers gives students who are involved in athletics, a chance to condition in the off season and learn about different aspects of sports, such as officiating, nutrition, rules, athletic training, and careers associated with athletics.

**3402711      Fitness Training      (11th-12th)      1.0 Credit**

This course offers students the opportunity to improve overall physical fitness through aerobic exercise and weight training. Students will help create their own fitness goals.

## **FAMILY & CONSUMER SCIENCE**

**200441      Food & Nutrition      (10th-12th)      1.0 Credit**

This course is designed to assist students in making critical decisions about food, which contributes to health and well-being. Laboratory instruction is included as an application process. Practical problems addressed relate to attitudes toward food, nutrition facts, special health concerns and diets, management of food resources, preparation skills, food safety, sanitation and careers in nutrition and food service.

**200113      FACS (Family & Consumer Science) Essentials (9th-10th)      1.0 Credit**

This comprehensive course provides an opportunity for acquiring basic life skills and guides students to explore and select specific areas for concentrated study. Emphasis is on family, employability skills, adolescent development, introduction to textiles, interiors and design, financial management, challenges of parenting, establishing healthy relationships, and creating a foundation for healthy lifestyles and nutrition.

**201011      Money Skills for Math      (10th-12th)      1.0 Credit**

This course is designed to provide students with math concepts needed in developing sound money management skills which will help to improve the quality of life for individuals and their families. Components of math, decision making and problem solving skills, goal setting and technology will be integral components of the course. A correlation to the math content in the program of studies was used in developing this course to count as a fourth math credit.

**200173 Parenting/    200171    Relationships (10th-12th)      0.5 Credit/.5 Credit**

This course is designed to aid students in developing parenting and care giving skills that can be applied in a variety of situations. Major topics include becoming an informed parent, understanding prenatal development, caring for the newborn, being an effective parent/caregiver, caring for the sick and elderly and exploring career opportunities in care giving. The Relationships section assists students to develop self-understanding, better understand others, improve interpersonal skills both within and outside the family, be more considerate of other person's needs and property, and maintain mental and emotional wellness.

## **Industrial Technology**

**2102211      Engineering Design I (9th-10th)      1.0 Credit**

This course continues to apply the skills, concepts, and principles of engineering. Students explore various technological systems and engineering processes in related career fields. Topics include investigating

technological system, design optimization, and problem solving. Students utilize CAD and physical and virtual modeling concepts to construct, test, collect, and report data

**2102222      Engineering Design II (10th-12th)      1.0 Credit**

A project and research based Computer Aided Drafting and Design course that extends the learning experiences where students focus on mechanical, electrical, fluid and thermal systems allowing in depth exploration in selected disciplines of engineering areas such as manufacturing, power/energy/transportation, bio-medical, robotics, hydraulics, electricity/electronics, communications, construction systems, alternative energy and computer aided design and problem solving.

**210290      Special Topics in Engineering (10th-12th)      1.0 Credit**

This is a laboratory-based course designed to study an engineering challenge, and/or recent technological advancements such as alternative energy, transportation, or other energy related fields. This course includes how this advancement affects society and/or environment.

**210138      Mechanical & Technical Design (10th-12th)      1.0 Credit**

This course will provide students with instructions in the characteristics and evolution of drafting technology, underlying principles of design and fundamental knowledge and skills in the use mechanical drawing, illustrations, and various forms of mechanical drawings, geometry and applied mathematics that apply to architectural and/or engineering design. Introduction to various forms of computer aided software to gain basic skills and knowledge.

# Consumer and Family Management Career Pathway

**Pathway Description:** The Consumer and Family Management pathway helps students develop skills associated with early career employment opportunities and rigorous education programs that prepare for this level of the career ladder. The knowledge and skills validated span across a broad range of Family and Consumer Sciences content areas and are central to career areas involving human services, consumer services/protection/ advising, education and training as well as social and community services.

<b>BEST PRACTICE CORE</b>	<b>EXAMPLE ILP-RELATED CAREER TITLES</b>
<p><i>Foundational Skills Necessary for Career-Ready Measure: (KOSSA/Industry Certification)</i></p> <p><i>Complete (3) <b>THREE CREDITS</b> from the following:</i></p> <ul style="list-style-type: none"> <li>• 200113 FACS Essentials AND/OR 200161 FACS Essentials Health*</li> <li>• 201010 Money Skills <u>OR</u> 201011 Money Skills for Math <u>OR</u> 201015 Consumer Economics for SS credit</li> <li>• 200171 Relationships**</li> <li>• 200441 Foods &amp; Nutrition</li> </ul> <p><i>Choose (1) <b>ONE CREDIT</b> from the following:</i></p> <ul style="list-style-type: none"> <li>• 200226 Middle to Late Lifespan Development**</li> <li>• 200173 Parenting**</li> </ul> <p>NOTE: (*) Indicates half-credit (.5) course NOTE: (**) Indicates course can be half-credit (.5) <u>OR</u> a full (1) credit course</p>	<p>Marriage and Family Therapist Family and Consumer Scientist Gerontologist Abuse/Crisis Counselor Personal Financial Planner</p>

**Engineering and Technology Design**  
**Career Pathway**  
**15.1302.00**

**Pathway Description:** The program of study is designed for students interested in the various disciplines of engineering and engineering technology. The sequences of courses will provide students with the opportunity to develop critical thinking skills and understanding of engineering concepts. Students then apply these skills in conjunction with the multi-step engineering design process to solve real-world problems. Includes instruction in engineering graphics, two-dimensional and three-dimensional engineering design, solids modeling, engineering animation, computer-aided drafting (CAD), computer-aided design (CADD), and auto-CAD techniques.

<b>BEST PRACTICE COURSES</b>	<b>EXAMPLE ILP-RELATED CAREER TITLES</b>
<p><i>Foundational Skills Necessary for Career-Ready Measure: (KOSSA/Industry Certification)</i></p>	<p>Engineering Technology Instructor CAD Engineer</p>
<p><i>Complete (2) CREDITS from the following:</i></p> <ul style="list-style-type: none"> <li>• 210138 Mechanical &amp; Technical Design</li> <li>• 210221 Fundamentals of Engineering Design I</li> <li>• 210108 Technological Design</li> </ul>	<p>CAD Technician/Drafter Mold Designer Mechanical Designer Industrial Material Handling Designer Mechanical Engineer</p>
<p><i>Complete (2) CREDITS from the following:</i></p> <ul style="list-style-type: none"> <li>• 210222 Engineering Design II</li> <li>• 210109 Technological Issues and Impacts</li> <li>• 210117 Advanced Design Applications</li> <li>• 210290 Special Topics in Engineering</li> <li>• 210224 Principles of Engineering &amp; Technology</li> <li>• 210330 Engineering &amp; Technology Co-op <u>OR</u></li> </ul>	

**Business Education Career Pathways**  
**ACCOUNTING**  
**52.0301.00**

**Pathway Description:** A program that prepares individuals to practice the profession of accounting and to perform related business functions. Includes instruction in accounting principles and theory, financial accounting, managerial accounting, cost accounting, budget control, tax accounting, legal aspects of accounting, auditing, reporting procedures, statement analysis, planning and consulting, business information systems, accounting research methods, professional standards and ethics, and applications to specific for profit, public, and non-profit organizations.

<b>BEST PRACTICE COURSES</b>	<b>EXAMPLE ILP-RELATED CAREER TITLES</b>
<p><i>Foundational Skills Necessary for Career-Ready Measure: (KOSSA/Industry Certification)</i></p>	<p>Accountant Forensic Accountant Planner Tax Preparer Auditor Auditing Clerk Budget Analyst Tax Examiner</p>
<p><i>Complete (2-3) TWO-THREE CREDITS from the following:</i></p> <ul style="list-style-type: none"> <li>• 060112 Digital Literacy <u>OR</u> 110110 Computer Literacy (IT) <u>OR</u> 060111 Business Principles and Applications</li> <li>• 060122 Accounting &amp; Finance Foundations</li> <li>• 070125 Advanced Accounting (Requires Special Teacher Training)</li> </ul>	
<p><i>Choose (1-2) ONE-TWO CREDITS from the following:</i></p> <ul style="list-style-type: none"> <li>• 060170 Financial Literacy (Interdisciplinary)*</li> <li>• 060411 Business Management*</li> <li>• 070743 Advanced Computer &amp; Technology Applications <u>OR</u> 070750 Microsoft Office (MOS)</li> <li>• 060108 Business Education Internship <u>OR</u> 06107 Business Education C0-op</li> </ul>	



