

Kentucky Virtual High School

2008-2009

Prerequisite and Course Materials List



www.kyvs.org

Or call 866.432.0008 for more information

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Studying Online with KVHS

Student Qualifications

In general, students registering for Kentucky Virtual High School (KVHS) courses should be self-motivated and strong independent learners. To succeed in KVHS web-based courses, students should have basic keyboarding skills and be knowledgeable accessing the internet, sending and receiving email including adding attachments, and utilizing basic word processing software. Specific content knowledge prerequisites are found in each course description.

Most KVHS courses are structured for grades 9 -12, but are made available to qualified middle school students with the recommendation of their school and approval of the course instructor.

Who Is “Most Likely to Succeed?”

Students who are successful in online courses generally have the following characteristics:

- **Solid academic preparation** - The student should have successfully completed the prerequisite coursework. All courses contain essay and open response components, therefore students should have basic mastery of writing and analytical skills as well.
- **Access to technology** – The student should have regularly scheduled access to an Internet-connected computer that meets KVHS's minimum technical requirements. Students should run the browser test available on the Kentucky Virtual School's blackboard system on their computer to confirm they meet the minimum technical requirements. (See the help tab for the browser test at: <http://kvhs.blackboard.com>). Students may also access their courses from home computers and any other Internet-connected computer to which they have regular access, such as those in public libraries. Changes in the local school calendar will not alter the KVHS calendar, therefore students need access to technology in case of absences due to weather, illness, or other local school related or personal absences.
- **Time and opportunity to study** – To be successful, students must have regularly scheduled time and opportunity to study and the self-discipline to stick to the schedule they establish. This often requires balancing competing priorities between the online course and extra-curricular activities. We strongly recommend that students have a specific class period during the day assigned for the KVHS course and additional time set aside for study at home. Students in Advanced Placement courses, especially, will need to schedule at least 12 hours per week for their course (about six hours online and six hours of offline study). Non-AP students should plan to spend at least as much time in their online course as in a face to face course, including homework time.
- **Students who value success** – Successful students in online courses have strong motivation and commitment. There is no “back row” in online classes, a student must be an active participant in all course activities, participating in class discussions and getting small group work done on time. Successful online students are generally very determined students who like to set their own goals and challenge themselves to meet them. Even students who come into a course not fully prepared academically are able to succeed through determination and pride in their work.
- **Strong support from school and home** – Students taking online courses are usually doing something “new;” that is, they may be the only online learner, or among a small group of students who are learning in a different way for the first time. In many cases, the online course may be the most rigorous course in the student's schedule. Support from the school and from home will be very important as students balance competing priorities for time and face frequent deadlines. Students are far more likely to succeed if they have encouragement from adults who acknowledge the challenge and support the effort.

The Role of the School Contact

Schools make it possible for students to take Kentucky Virtual High School courses because the school is the final approval point in the registration process. However, registration is only the first part of the process of learning online. Schools have important roles to play throughout the course; the role most crucial to student success is that of the school contact.

Identifying the School Contact – After a student has been approved for a course, the Kentucky Virtual High School will ask that a school contact be named. Schools may identify the same individual for all KVHS students or name more than one individual if there are several students enrolled in different courses. The contact has no responsibilities for grading and so does not have to be a teacher, but should be someone who will take responsibility for supporting the student throughout the course and communicating with the KVHS teacher.

KVHS will need the name, title, mailing address, phone and email of the school contact(s). The school contact will have KVHS login credentials so that they may familiarize themselves with the course and log in to check student progress and activity logs.

The responsibilities of the school contact are:

- Making sure that the student has regularly scheduled access to an Internet computer
- Ensuring that the student has the Required Materials or other instructional materials before class begins. This includes:
 - Ensuring that the school procures any texts or other required materials that are needed and provides them to the student
 - Receiving any instructional materials that are mailed by KVHS to the school to be provides them to the student
- Receiving midterm progress reports and final grades from KVHS Administration
- Advising KVHS Administration of any withdrawals and changes in enrollment
- Communicating with the KVHS teacher on an as-needed basis (email and phone)
- Proctoring certain assessments (usually only the final exam)
- Being KVHS's first point of contact for any online disciplinary issues
- Encouraging, coaching and generally being a caring advocate for the online student

Material and Textbook Procurement Policy

Required materials and textbooks specified in this catalog are not included in the course fee, unless otherwise noted. KVHS has contracted with Specialty Books, Inc. at <http://www.specialty-books.com/kvhs> to make KVHS course materials available to our students; however, course materials may be obtained from any textbook provider.

2008/2009 Materials List by Content Area & Subject

Advanced Placement*

All Advanced Placement courses offered by KVHS have been approved by the College Board and may bear the title Advanced Placement (AP).

Program of Studies

The College Board Advanced Placement (AP) courses provide avenues for motivated college-bound students to access challenging curricula that facilitate high-level attainment of Kentucky's learning goals. The College Board Advanced Placement Program provides high school students with an opportunity to earn college credit at nearly 3,000 universities and colleges. The College Board

Advanced Placement Program provides transition from secondary school to college through rigorous curricula.

Advanced Placement courses require use of standardized prescribed college level curriculum; textbooks are selected from among standard college texts in the appropriate content area. The College Board provides several sample basic syllabi. Special training for teachers available through The College Board AP training institutes is recommended but not required.

The College Board has no restrictions on the age/grade level of students who take Advanced Placement courses and/or Advanced Placement examinations; college credit is solely based on the level of performance on the examination.

AP Art History

Course Description: This course will provide students with college level instruction in the history of art. Students will examine major forms of artistic expression from the past and present and from a variety of cultures. Students will learn to look at these works of art critically, with intelligence and sensitivity, and to articulate what they see or experience.

The student will:

- Examine major forms of artistic expression from the past and present and from a variety of cultures.
- Earn university credit for successful completion of this course and the AP Art History Exam in early May.
- Look at works of art critically, with intelligence and sensitivity, and to articulate what they see.

Prerequisites

Suggested prerequisites are at least a B in English Honors II, and/or at least a B in World History Honors.

Credit value: 1

Required Textbooks and Materials - <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- *Gardner's Art Through the Ages (13th Edition)*. Kleiner, Mamiya, and Tansey, 2000. Wadsworth Publishing, ISBN #0-4950-9307-6. (This includes a printed access card with Art Study and Timeline features.)

AP Biology

Course Description: AP Biology is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. It aims to provide students with the conceptual framework, factual knowledge and analytical skills necessary to deal critically with the rapidly changing science of biology. The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process. The ongoing information explosion in biology makes these goals even more challenging. Primary emphasis in an Advanced Placement Biology course should be on developing an understanding of concepts rather than on memorizing terms and technical details. Essential to this conceptual understanding are the following: a grasp of science as a process rather than as an accumulation of facts; personal experience in scientific inquiry; recognition of unifying themes that integrate the major topics of biology; and application of biological knowledge and critical thinking to environmental and social concerns.

AP Biology is representative of the topics covered by the AP exam. Accordingly, goals have been set for percentage coverage of three general areas:

- Molecules and Cells, 25%
- Heredity and Evolution, 25%
- Organisms and Populations, 50%

Prerequisites

Students should have successfully completed Biology and Chemistry.

Credit value: 1

Required Textbooks and Materials - <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- *Biology, 8th Edition with CD-ROM*. Campbell and Reece, Prentice Hall, 2005. ISBN 0 3215 4325 4.
- Biology Concepts and Connections Pincode Packet (free online resource with the purchase of the book.)
- On-Line FlyLab (Lab Manual for Biology Labs), Michael A. Palladino. ISBN 0 8053 6527 3.
- On-Line LeafLab (Lab Manual for Biology Labs). Michael A. Palladino. ISBN 0 8053 6534 6.
- On-Line EvolutionLab (Lab Manual for Biology Labs). Michael A. Palladino. ISBN 0 8053 6528 1.
- Glucose tablets (3) – NOT available from Specialty Books, may be purchased from local drug store
- Diastix Strips (3) – NOT available for Specialty Books, may be purchased from local drug store
- Lab Equipment Kit (includes items below) – AVAILABLE from <http://www.specialty-books.com/kvhs>
 - Dialysis Tubing 1 ¾ inch X 50 feet – student receives 18 inches.
 - Dual Calibration Spring Scale 250g/2.5N Student receives 1
 - Test tube 250 mL Student receives 2
 - Plastic tubing Tygon Bore 1/8 wall 1/16 – Student receives 18 inches
 - Glass Pipette 0.1 mL in 0.01 divisions – Student receives 1
 - Filter paper 33 mm – Student receives 1
 - Graduated Cylinder 50 mL – Student receives 1
 - Plastic Pipette 3.0 mL microchemistry – Student receives 1

AP Calculus AB

Course Description: Advanced Placement Calculus AB is designed as college-level Calculus I. It is a course in single-variable calculus that includes techniques and applications of the derivative, techniques and applications of the definite integral, and the Fundamental Theorem of Calculus. Algebraic, numerical, and graphical representations are emphasized throughout the course. An Advanced Placement course in calculus consists of a full academic year of work in calculus comparable to that of a university or college.

Calculus AB teaches students to understand change geometrically and visually (by studying graphs of curves), analytically (by studying and working with mathematical formulas), numerically (by seeing patterns in sets of numbers) and verbally. They learn more than how to calculate right answers. They learn to use and clearly communicate mathematical reasoning and to translate between the English language and the language of math. Students often will be called upon to evaluate the soundness of proposed solutions rather than simply get the right answer. They will focus on developing a deep understanding of mathematical ideas instead of simply memorizing procedures and rules.

The AP Calculus AB course consists of 5 chapters in the first semester and 5 chapters in the second semester. Each chapter has 6-10 lessons with an online interactive homework enhanced by multimedia and a lesson quiz in each lesson. Each chapter contains a practice test, test, and Free Response practice. The course uses multimedia online text containing interactive exercises, simulations, video

lectures, and tutorials. Algebraic, numerical, and graphical representations are emphasized throughout the course. The content features comprehensive AP exam review at the end which is based on AP-style Free Response and Multiple Choice problems. This course is approved by The College Board as providing adequate preparation for the students for an AP Exam in Calculus AB.

Prerequisites

Students should have successfully completed Pre-Calculus.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- MyMathLab Student Stand Alone Access Kit, Prentice Hall, 4th Edition. ISBN 0 321 19991 X
- In addition, students will need a TI-83 or higher graphing calculator

AP Calculus BC

Course Description: Advanced Placement Calculus BC is a continuation of Advanced Placement Calculus AB. Concepts in AP Calculus AB (techniques and applications of the derivative, techniques and applications of the definite integral, and the Fundamental Theorem of Calculus) are reviewed and extended. Topics of study in Advanced Placement Calculus BC also include vectors, parametric equations, polar coordinates, advanced integration techniques, and sequences and series. An Advanced Placement course in calculus consists of a full academic year of work in calculus comparable to that of a university or college. This course consists of 9 chapters in the first semester and 6 in the second. Each chapter has 6-10 lessons with an online interactive homework enhanced by multimedia and lesson quiz in each lesson. Each chapter contains a practice test, test, and Free response practice. The course uses multimedia online text containing interactive exercises, simulations, video lectures, and tutorials. Algebraic, numerical, and graphical representations are emphasized throughout the course. The content features comprehensive AP exam review at the end which is based on AP-style Free response and Multiple Choice problems.

This course is designed to comply with The College Board's recommendations to prepare students for an AP Exam in Calculus BC.

Prerequisites

Students should have successfully completed Pre-Calculus.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- MyMathLab Student Stand Alone Access Kit, Prentice Hall, 4th Edition. ISBN 0 321 19991 X
- In addition, students will need a TI-83 or higher graphing calculator.

AP Chemistry

Course Description: Chemistry is a 36-week Advanced Placement course and is the equivalent to a general Chemistry course usually taken in the first year of college. It is designed to comply with The College Board's recommendations to prepare students for an AP Exam in Chemistry. The course helps build students' understanding of the nature and reactivity of matter. The course begins with the structure of atoms, molecules and ions; then students explore how that structure lets us predict and quantify the chemical reactions that substances undergo.

AP Chemistry will enable the student to develop an understanding of chemical concepts and become skilled at solving quantitative chemical problems through a combination of instructional activities. This course will be valuable to all students planning to continue in science, health sciences or engineering courses in college.

Prerequisites

Suggested prerequisites are Introduction to Chemistry and Algebra II.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- *Inquiries Into Chemistry*, 3rd Edition. Michael R. Abraham and Michael J. Pavelich. Waveland Press, 2003. ISBN 1 5776 6061 7
- APEX Laboratory Kit, cost and ordering information is available inside the AP Chemistry course.
- In addition, students will need a graphing calculator such as a TI-83 or TI-84

Optional Textbooks (NOT REQUIRED-students may choose to purchase one of the textbooks listed below to use as an additional resource for this course)

- *Peterson's AP Chemistry*. Brett Barker. Arco, Thomson Learning, 2004. ISBN 0 7689 1828 6.
- *Chemistry and Chemical Reactivity*, 7th Edition. John C. Kotz and Paul Treichel, Jr. Brooks/Cole Thomson Learning, ISBN 0 4956 3323 2. Alternate edition also acceptable: 5th edition, 2003. ISBN: 0 0303 3604 X
- *Chemistry*, 7th Edition. Steven S. Zumdahl and Susan A. Zumdahl. Houghton Mifflin Company, 2007. ISBN 061852844X. Alternate editions also acceptable: 6th edition, 2003 ISBN: 0 6182 2156 5 OR 5th edition, 2000 ISBN: 0 6180 3591 5.

Labs: Students will learn experimental lab methodology through a variety of computer-based learning activities. These activities are designed to incorporate the learning goals of the laboratory activities recommended by The College Board. Successful completion of these activities will prepare a student to answer the laboratory questions on the AP Science Exams. Because wet laboratory experience is an important component of college science courses, the College Board recommends that AP science courses include wet laboratory activities. This course includes an optional wet laboratory component that schools or teachers can provide for their students. Wet labs require a lab supervisor, specified lab materials and the lab manual. To find a list of materials for the labs, go to <http://support.apexlearning.com>, choose the product you are using and click on Get Started, then click on Course and Lab Materials.

AP Computer Science

Course Description: AP Computer Science is a college level computer course covering the applications of computing within the context of programming methodology, algorithms, and data structures. This is a one year course and students will be able to take The College Board Computer Science examination in May (see

http://www.collegeboard.com/student/testing/ap/sub_compscia.html for more information)

Prerequisites

Students should have successfully completed Computer Basic I & II, Algebra II or currently be taking Algebra II.

Credit value: 1

Required Textbooks and Materials

There are no required textbooks or materials for this course.

The computer language that will be used is Java which is a free download for either a Macintosh or a Windows platform.

AP English Language and Composition

Course Description: English Language and Composition is a 36-week Advanced Placement course and is the equivalent of a one-semester, college-level, English Language and Composition survey course. It is designed to comply with The College Board's recommendations to prepare students for an AP Exam in English Language and Composition.

AP English Language and Composition helps students become critical readers and flexible, skilled writers. Through a varied curriculum from classical literature to popular prose students learn the process of writing and how to tailor it to communicate effectively in academic, personal, and professional contexts.

Students learn to understand and analyze complex styles of writing by reading the works of a variety of authors, including other students. The richness of language is explored through study of syntax, imitation, word choice and tone. Students learn about their own composition style and process, focusing on exploration, planning, writing, editing, rewriting and polishing of text.

Mastery of the English language is key to a student's success in high school, college and professional settings. This course will be valuable to all students looking to become skillful readers and effective written communicators.

Prerequisites

Student should have received a grade of at least a B in the student's most recent English course.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- *The Norton Reader*. 11th Edition. John C. Brereton, Joan E. Hartman, and Linda H. Peterson. W.W. Norton & Company, 2004. ISBN: 0 3939 7887 7. (10th Edition, 1996, is also acceptable, ISBN: 0 3939 7383 2)
- *Writing, A College Handbook*. 5th Edition. James Heffernan, John E. Lincoln and Janet Atwill. W.W. Norton & Company, 2000. ISBN: 0 3939 7426 X.

Required Readings

Students will be assigned additional readings throughout the course. These texts should be available in libraries and will not be required to be purchased.

AP English Literature and Composition

Course Description: English Literature and Composition is a 36-week Advanced Placement course and is the equivalent of a one-semester, college-level, English Literature and Composition survey course. It is designed to comply with The College Board's recommendations to prepare students for an AP Exam in English Literature and Composition.

In addition to preparing students for the AP Exam, this course prepares students for university courses in literature, composition and creative writing. A variety of multimedia and interactive activities, interpretive writing assignments and discussions with peers and instructors help students assess and improve their skills and knowledge. Special emphasis is placed on reading comprehension, structural and critical analysis of written works and the recognition and understanding of literary devices. Students also gain insight through exposure to historical and cultural information about the authors and works they read. This course will be valuable to all students looking to become skillful readers and effective written communicators.

Prerequisites

The suggested prerequisite is at least a B in your most recent English course.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- *The Norton Anthology of Poetry*. 5th ed. Ferguson, Salter et al, eds. C2005, W.W. Norton & Co. ISBN 0 3939 7920 2 (4th Edition, 1996, is also acceptable, ISBN: 0 3939 6820 0)
- *The Story and Its Writer: An Introduction to Short Fiction*. Compact 7th ed. Ann Charters, ed. C2007, Bedford/St. Martins. ISBN: 0 3124 4271 8 (6th Edition c2002 ISBN:0312397313, or 5th edition c1998 ISBN: 0 3121 7164 1 also acceptable)

Required Readings

Students will be assigned additional readings throughout the course. These books should be available in libraries and will **not** be required to be purchased.

First semester

readings:

- *Their Eyes Were Watching God*, Zora Neale Hurston
- *Hedda Gabler*. Henrik Ibsen
- *A Streetcar Named Desire*, Tennessee Williams
- *Twelfth Night*, William Shakespeare

Second semester

readings:

- *The Great Gatsby*. F. Scott Fitzgerald
- *Annie John*. Jamaica Kincaid
- *Jane Eyre*, Charlotte Bronte

AP Environmental Science

Course Description: This course is designed to acquaint you with the physical, ecological, social, and political principles of environmental science. The scientific method is used to analyze and understand the interrelationships between humans and the natural environment. The course shows how ecological realities and the material desires of humans often clash, leading environmental degradation and pollution. The course consists of six chapters covering the following topics: Earth's Systems, Human Population Dynamics, Natural Resources, Environmental Quality, Global Changes and Environment and Society. Chapters are divided into several subsections, each of which contains text, animations, laboratory simulations and video presentations by experts.

The student will:

- Know and understand the levels of the ecological hierarchy;
- Appreciate the integration of natural processes that govern the natural world;
- Appreciate the importance of maintaining a sustaining biosphere for the continued presence of a human population on the earth;
- Understand the pragmatic and realistic difficulties of integrating human societal needs without further compromising ecological processes
- Become familiar with the ecological background to global environmental problems
- Realize the consequences of our individual and joint actions upon the biosphere.

Prerequisites

Students should have successfully completed Biology, Chemistry and Algebra II.

Credit value: 1

Required Textbooks and Materials

There are no required textbooks or materials for this course.

Optional Textbooks (NOT REQUIRED-students may choose to purchase one of the textbooks listed below to use as an additional resource for this course)

- *Living in the Environment: Principles, Connections, and Solutions*. 14th Edition, G. Tyler Miller, Jr. Brooks Cole Publishing Company, ISBN: 0 5349 9729 5, <http://www.brookscole.com>

AP European History

Course Description: This course is a study of the social, economic, cultural, intellectual, political and diplomatic history of Modern Europe and its place in the history of the world from the fall of Constantinople to the fall of the Berlin wall and the Soviet Union. The course will be taught at a level and rigor equivalent to that required of students in a college freshman or sophomore Modern European History course.

The course objective is to develop an understanding of the major periods, ideas, movements, trends, and themes that characterize European history from approximately 1450-the high Renaissance-to the present. Students develop the ability to analyze historical evidence and express understanding and analysis in writing.

The course will correspond to recent trends in history curricula at the undergraduate level and will prepare students for the College Board examination in European History given in the spring. A primary goal for the scholars in the course will be to achieve a high score on the Advanced Placement Exam in mid May. It is understood that all students electing this course will take the Advanced Placement Exam in Modern European History.

Prerequisites

Suggested prerequisites are at least a B in your most recent Social Studies course and good writing skills. World Civilization is recommended but not required.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- *The Western Heritage: Since 1300*, 9th Edition Kagan, Ozment, Turner, 2003. Prentice Hall: Upper Saddle River, NJ. ISBN: 0 1317 3348 6

AP French Language

Course Description: The AP French Language course is designed around the The College Board curriculum for the AP French Language exam. The course focuses on listening, speaking, reading and writing at a proficient level in French.

The learning objectives for this course are:

- The ability to understand spoken French in various contexts
- A French vocabulary sufficiently ample for reading newspaper and magazine articles, literary texts, and other non-technical writings without dependence on a dictionary
- The ability to express oneself coherently, resourcefully, and with reasonable fluency and accuracy in both written and spoken French

Prerequisites

Students should have knowledge of the French language and familiarity with French cultures. Additionally, students must be able to speak, read, write, and comprehend auditory French passages. It is recommended students complete a minimum of three French credits before enrolling in this course.

Credit value: 1

Required Textbooks

There are no required textbooks for this course.

Recommended Materials:

The cost of the required course materials is not included in the course fee.

- French-English/English-French dictionary of choice.
- Headset, or microphone and speakers for computer.

AP German Language

Course Description: The AP German Language course is designed around The College Board's curriculum for the AP German Language exam. The course focuses on active communication including listening, speaking, reading and writing at a proficient level in German.

The learning objectives for this course are:

- Develop a strong command of vocabulary and structure
- Understand spoken German in various conversational situations
- Read newspaper and magazine articles, contemporary fiction, and non-technical writings without the use of a dictionary
- Fluently and accurate expressions of ideas orally and in writing

Prerequisites

Students should have knowledge of the German language and familiarity with German speaking cultures. Additionally, students must be able to speak, read, write and comprehend auditory German passages. It is recommended students complete a minimum of three German credits before enrolling in this course.

Credit value: 1

Required Textbooks - <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

From McDougal Littell

- *Kaleidoskop*, 7th edition. Moeller, Berger, Adolph, & Mabee. ISBN: 0 618 71460 X
- *Kaleidoskop*, 7th edition Student Activities Manual ISBN: 0 618 71015 9
- *Kaleidoskop*, 7th edition Video Program ISBN: 0 618 71020 5
- *Kaleidoskop*, 7th edition CD Program ISBN: 0 618 71022 1

Students need listening exercises to accompany the text and may choose from the following formats:

- Audiocassettes to accompany text (ISBN: 0 618 10327 9)
- CDs to accompany text (ISBN: 0 618 10329 5)

Required Materials:

- German-English/English-German dictionary of choice.
- Headset, or microphone/ speakers for computer.

AP Human Geography

Course Description: This purpose of this course is to immerse students in the study of Human Geography. Geography is a fascinating and practical science, which studies the location of people and their activities across the Earth's surface, and the reasons for their diffusion. This class has been designed to meet the guidelines set down by the College Board and will prepare students to take and pass the AP Human Geography exam given in May.

Prerequisites

The suggested prerequisite is the successful completion of an introductory course in Geography or Survey of Social Sciences.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- Barron's *AP Human Geography (2008)*, Marsh, Barron's Educational, Marsh, 2nd Edition, ISBN 0 7641 3817 0
- Barron's *How to Prepare for the AP Human Geography Exam*, 2nd Ed., Peter S. Alagona and Meredith Marsh, 0 7641 2094 8.
- *Human Geography*, Prentice Hill, Knox, 3rd Edition, ISBN 0 1310 1518 4
- Hammond Citation World Atlas (with CD ROM), Hammond World Atlas Corporation Publishers, ISBN 0-8437-1446-8

AP Latin Literature (KET)

Course Description: Latin Literature is designed to allow students to read Latin authors, analyze their writings and discuss them with other students and the teacher. Students read selections from Latin authors, Caesar, Cicero, Augustus, Pliny, Trajan and Eutropius. Grammatical concepts and Latin vocabulary are reinforced in the context of these works. Upon completion of this segment, students read from Catullus and Horace to prepare them for the Advanced Placement Latin Literature exam.

During this course, students:

- Gain introspective into the life of the late Republic and early Empire through selected writings of Roman authors such as Caesar, Cicero, Augustus, Pliny, Trajan and Eutropius
- Become familiar with about 1,200 lines of poetry of Catullus and Horace
- Write literal translations of sight passages.
- Identify and analyze the individual characteristics of different authors such as uses of imagery, figures of speech, metrical effects, and onomatopoeic significance.
- Scan poetry and appreciate the metrical sound effects.

Prerequisites

Successful completion of KET Latin III or teacher recommendation. Call KET at 1-800-333-9764 for approval.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials are is not included in the course fee.

- *The New College Latin & English Dictionary*, AMSCO School Publications, Inc. ISBN #978-0-877-20561-6, Order No.: R617P (optional for classroom)
- Students must have access to Perseus Literature website for Catullus and Horace poems.

The student materials fee is \$10 for a student guide notebook which is invoiced from KET. Visit <http://www.dl.ket.org/kvhs/> for additional information.

AP Macroeconomics

Course Description: Macroeconomics is an 18-week Advanced Placement course and is the equivalent of an introductory, one-semester, college-level Macroeconomics course. It is designed to comply with The College Board recommendations for preparing students for an AP Exam in Macroeconomics.

Macroeconomics explains how to identify trends in our economy and how to use those trends to develop performance measures and predictors of how our economy will grow or decline. Students will examine how individuals, institutions and influences affect economic status, and how these factors can impact life through employment rates, inflation, government spending, taxes and production. The equivalent of an introductory college-level course, AP Macroeconomics prepares students for the AP Exam and for further study in business, history and political science.

Prerequisites

Students should have successfully completed Algebra II.

Credit value: .5

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- *Macroeconomics for Today* (5th Edition), ed. Irvin B. Tucker, South-Western/Thomson Learning, 2005. ISBN 0324407998 **OR** 4th Edition, 2005 ISBN 0324301979 **OR** 3rd Edition, 2003. ISBN 0324114761

AP Microeconomics

Course Description: Microeconomics is an 18-week Advanced Placement course and is the equivalent of an introductory, one-semester, college-level Microeconomics course. It is designed to comply with The College Board's recommendations for preparing students for an AP Exam in Microeconomics.

AP Microeconomics teaches students how economists look for patterns in economic behavior and how they use these patterns to explain and help predict how buyers and sellers behave under different economic conditions. Topics covered in the course include the economic way of thinking, on understanding the nature and function of markets, on the role of scarcity and competition, on the influence of factors such as interest rates on business decisions and the role of government in promoting a healthy economy.

Prerequisites

Students should have successfully completed Algebra I.

Credit value: .5

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- *Microeconomics for Today* (5th Edition). Ed. Irvin B. Tucker, South-Western/Thomson Learning, 2007. ISBN 0324408005 **OR** 4th Edition, 2005, ISBN 0324301928 **OR** 3rd Edition, 2003 ISBN #032411477X

AP Physics B (KET)

Course Description: AP Physics B is a rigorous preparation for the AP Physics B exam and the medical College Aptitude Test. This course uses college-level syllabi, homework and tests while following the College Board's guidelines for AP Physics B. A virtual lab is included in this course.

Prerequisites

Students should have successfully completed Algebra II, Geometry and Trigonometry. A previous Physics course is also recommended.

Credit value: 1

Required Textbooks and Materials - <http://www.dl.ket.org/kvhs/>

The cost of the required course textbooks or materials is not included in the course fee.

AP Physics C: Electricity and Magnetism

Course Description: This is a calculus-based, college level physics course. Methods of calculus are used wherever appropriate in formulating physical principles and in applying them to physical problems. This course forms the second part of the college sequence that serves as the foundation in physics for students majoring in the physical sciences or engineering. The principal course objectives are:

- to give students a firm foundation in the branch of physics known as Electricity and Magnetism,
- to give students an excellent grounding in physics laboratory techniques,
- to prepare students to successfully take the College Board Advanced Placement Exam for Physics C: Electricity and Magnetism.

The content features comprehensive AP exam review at the end which is based on AP-style Free response and Multiple Choice problems. This course is approved by The College Board as providing adequate preparation for the students for an AP Exam in Physics C: Electricity and Magnetism. Students should have mastered the concepts of Algebra II, Geometry, Trigonometry and Calculus. (Calculus may be taken concurrently).

Prerequisites

The prerequisites are Physics (AP Physics B, AP Physics C: Mechanics, Physics II or Honors Physics) and Calculus (may be taken concurrently.)

Credit value: .5

Required Textbooks and Materials

No text is required. All content is in the course in digital format.

- Students will need a scientific calculator

AP Physics C: Mechanics

Course Description: This is a calculus-based, college level physics course. Methods of calculus are used wherever appropriate in formulating physical principles and in applying them to physical problems. This course forms the first part of the college sequence that serves as the foundation in physics for students majoring in the physical sciences or engineering. The principal course objectives are:

- To give students a firm foundation in the branch of physics known as Mechanics,
- To give students an excellent grounding in physics laboratory techniques,
- To prepare students to successfully take the College Board Advanced Placement Exam for Physics C: Mechanics.

The content features comprehensive AP exam review at the end which is based on AP-style Free response and multiple choice problems. This course is approved by The College Board as providing adequate preparation for the students for an AP Exam in Physics C: Mechanics.

Prerequisites

Students should have mastered the concepts of Algebra II, Geometry, Pre-Calculus, and Calculus (Calculus may be taken concurrently). It is recommended, but not required, that students take this course as a follow-up to a general high school physics course with a lab component.

Credit value: .5

Required Textbooks and Materials

No text is required. All content is in the course in digital format.

- Students will need a scientific calculator

AP Psychology

Course Description: AP Psychology is a one-semester course providing an overview of current psychological research methods and theories. Students will explore the therapies used by professional counselors and clinical psychologists and examine the reasons for normal human reactions: how people learn and think, the process of human development and human aggression, altruism, intimacy and self-reflection. They will study core psychological concepts, such as the brain and sense functions, and learn to gauge human reactions, gather information and form meaningful syntheses.

Along the way, students will also investigate relevant concepts like study skills and information retention. The equivalent of a 100-level college survey course, AP Psychology prepares students for the AP Exam and for further studies in psychology and life sciences.

Prerequisites

Students should have successfully completed Biology or Intro-level Psychology course.

Credit value: .5

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the course textbooks or materials is not included in the course fee.

- *Psychology*, 8th Edition. David G. Myers (2006), Worth Publishing. ISBN 0-7167-64288
- Barron's *How to Prepare for the AP Psychology Exam*, 3rd Edition, Barron's Educational, Robert McEntarffer and Allyson Weseley, 0 7641 3665 8.

AP Spanish Language

Course Description: The AP Spanish Language course is designed around the College Board curriculum for the AP Spanish Language exam. The course focuses on listening, speaking, reading and writing at a proficient level in Spanish.

The learning objectives for this course are:

- The ability to comprehend formal and informal spoken Spanish
- The acquisition of vocabulary and a grasp of structure to allow the easy, accurate reading of newspaper and magazine articles, as well as of modern literature in Spanish
- The ability to compose expository passages
- The ability to express ideas orally with accuracy and fluency

Prerequisites

Students should have knowledge of the Spanish language and familiarity with Spanish speaking cultures. Additionally, students must be able to speak, read, write and comprehend auditory Spanish passages. It is recommended students complete a minimum of three Spanish credits before enrolling in this course.

Credit value: 1

Required Textbooks- <http://www.specialty-books.com/kvhs>

The cost of the course textbooks or materials is not included in the course fee.

From Wayside Publishing (<http://www.waysidepublishing.com> or email wayside@sprintmail.com), 129 Commonwealth Avenue, Concord, MA 01742, Telephone 888.302.2519

- *Triangulo: Aplicaciones Practicas de la Lengua Espanola*, 4th Edition, Student text, ISBN 1-877653-89-6
- CDs to accompany text, ISBN 1-877653-91-8
- *Una Vez Mas, Student Text* (ISBN 0-8013-0971-9)
- *Una Vez Mas Student Test Book* (ISBN 0-8013-0973-5)

Recommended Materials:

The students must have access to:

- Spanish-English/English-Spanish dictionary of choice.
- Headset, or microphone and speakers for computer.

AP Statistics

Course Description: Statistics is a 36-week Advanced Placement course and is the equivalent of a non-calculus-based introductory college course. It is designed to comply with The College Board's recommendations to prepare students for an AP Exam in Statistics.

AP Statistics gives students hands-on experience collecting, analyzing, graphing and interpreting real-world data. Through online discussions and assignments, students will develop skills in effectively designing and analyzing research.

Prerequisites

Students should have successfully completed Algebra II.

Credit value: 1

Required Textbooks

There is not a textbook required for this course.

Required Materials- <http://www.specialty-books.com/kvhs>

All students will need a Texas Instruments TI-83 or TI-84 graphing calculator. A TI-86 or TI-89 is acceptable but the course is written around the TI 83/4 family of calculators.

Though the activities in your course provide all of the information you need to get a great score in the course and on the AP Exam, sometimes it's nice to have a text-based resource to help you. We recommend the following; please remember, these are NOT required, these are OPTIONAL.

- *The Practice of Statistics*: TI-83/89 Graphing Calculator Enhanced Second Edition. Daniel S. Yates, David S. Moore and Daren S. Starnes. W.H. Freeman & Co. Publishers, 2003. ISBN: 0-7167-9743-7.
- *Barron's How to Prepare for the AP Statistics: Advanced Placement Test in Statistics*. 3rd Edition. Martin Sternstein, Barron's. ISBN 0-7641-2193-6.

AP United States Government and Politics

Course Description: U.S. Government and Politics is an 18-week Advanced Placement course and is the equivalent to an introductory, one-semester, college-level U.S. Government course. It is designed to comply with The College Board's recommendations for preparing students for an AP Exam in U.S. Government and Politics.

U.S. Government and Politics course covers the "nuts and bolts" of the American political system and shows students how to gather and analyze data about political behavior and form theories about how and why our political system acts as it does. The course focuses on the structure and operations of the U.S. government and the behavior of the electorate and politicians.

This course will be valuable to students interested in politics, considering a major in a social science field or contemplating a career in law, politics or education. Students will gain an analytic perspective, enabling them to critically evaluate political information, hypotheses, concepts, opinions and processes. Through online discussions and essay assignments, students will develop the skills they need to examine general propositions about government and politics and to analyze the specific relationships between political, social and economic institutions.

Prerequisites

Students should have successfully completed U.S. History and have strong writing skills.

Credit value: .5

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks and materials is not included in the course fee.

- *Government in America: People, Politics, and Policy*, 13th Edition. George C. Edwards III, Martin P. Wattenberg, and Robert Lineberry. Longman Publishers, 2005. ISBN: 0 3214 1100 5.
- *American Government: Readings and Cases*. 17th Edition. Woll, Peter, ed. Longman Publishing. ISBN: 0 3214 7314 0.

AP United States History

Course Description: U.S. History is a 36-week Advanced Placement course and is the equivalent of a one-semester, college-level, U.S. History survey course. It is designed to comply with College Board recommendations to prepare students for an AP Exam in U.S. History. Through analysis and exploration, students in AP U.S. History build an understanding of the economic, political, and social changes that have occurred in America since Columbus. Students learn how decisions and events of the past continue to have profound effects on the world today and how knowledge of the causes behind past events can influence future decisions. Students put their factual knowledge to work by weighing evidence and interpreting problems presented by historians. Mastery of historical knowledge and skill in critical analysis are the cornerstones of this course. Through a variety of individual and collaborative activities, students focus on building reading, writing, and communication skills they'll use throughout their academic and professional careers.

Prerequisites

Students should possess a B in the most recent Social Studies course and good writing skills.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks and materials is not included in the course fee.

- *The American Pageant, A History of the Republic.* 12th Edition. David Kennedy, Lizabeth Cohen, and Thomas Bailey. Houghton Mifflin Company College Division, 2002. ISBN: 061810349X
- *After the Fact: The Art of Historical Detection.* 5th Edition. James West Davidson and Mark Hamilton Lytle. McGraw Hill Higher Education, 2005. ISBN: 0072818522.

Career and Technical Education

Program of Studies

Vocational Education is an essential component of the high school curriculum. For many students, Vocational Education represents as much as one third of their high school experience. Successful transition to postsecondary education, the workplace or the military is one of the goals of Kentucky's educational system, and the percentage of students making successful transition is a component of the high school accountability index.

A well-planned sequence of courses, which is focused on a career cluster, impacts students' achievement during high school and student success following high school graduation. When high-quality vocational programs are integrated with high-quality academic programs, students understand the relevance of curriculum in preparation for their futures. Employers are demanding that their future employees have the ability to apply their academic and technical skills to real-world problems that are encountered in the workplace. Occupational data indicate that a significant percentage of jobs will require some level of postsecondary education in a technical field. Vocational Education at the secondary level assists in meeting this demand.

Principles of Health Science

Course Description: Health Science Introduction is an orientation and foundation for occupations in the health care cluster. The course includes broad health care core standards, which specify the knowledge and skills that the vast majority of workers should possess if pursuing a career in health care. The student will learn about the health care industry, health care economics, legal and ethical issues, and the career opportunities available. Leadership development, employability skills and medical terminology will be integrated throughout the course. This introductory course may be a prerequisite for additional courses in the Health Science Program. All core content for Vocational Studies is included in this course.

Prerequisites

No prerequisites are required for this course at this time.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- *Diversified Health Occupations,* 7th Edition. (2004) Louise Simmers. Delmar Learning, ISBN 1 4180 3021 X.
- *Workbook to Accompany Diversified Health Occupations,* 7th Edition (Paperback), Louise Simmers. ISBN 1 4180 3022 8.

Electives

Business and Consumer Math

Course Description: Students are introduced to such everyday life skills as balancing a checkbook, calculating net pay, budgeting expenses, making cost comparisons, buying and renting a home, and finding the cost of operating a motor vehicle. Basic business matters, including borrowing money, investing, and calculating business profits and losses are also included. The goal of this course is to guide students in building a strong foundation in logical thinking and problem solving that will enable them to make good decisions concerning matters of money and finance in their daily lives. Several projects and activities will allow them to use the skills and knowledge they gain from this course and apply them to real-life situations. Basic computer skills are recommended.

Prerequisites

No prerequisites are required for this course at this time.

Credit value: .5

Required Textbooks and Materials

There are no required textbooks or materials for this course.

Required Materials

The cost of the required course textbooks or materials is not included in the course fee.

- Students will need a scientific calculator for this course.

Business and Personal Protocol

Course Description: In this entry-level protocol course offered via the Web, students learn valuable information and guidelines necessary to function in today's global and multiethnic environment. This course teaches students skills in cultural awareness, positive self-concept, leadership, and communication, which are essential to maintaining successful business and personal relationships. Basic computer skills are recommended

Prerequisites

No prerequisites are required for this course at this time.

Credit value: .5

Required Textbooks and Materials

There are no required textbooks or materials for this course.

Career Planning

Course Description: This is a comprehensive course, offered via the Web, where students first learn about themselves and how that knowledge contributes to career success. They use various career resources to investigate careers and discover how goal setting and decision making are integral to career planning. They also master job-finding techniques and learn how to make the transition from school to work. Basic computer skills are recommended.

Prerequisites

No prerequisites are required for this course.

Credit value: .5

Required Textbooks and Materials - <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- *"You and Your Career"* by John L. Holland, PhD
- *"The Occupations Finder"* by John L. Holland, PhD
- *"Assessment Booklet—A Guide to Educational and Career Planning"* by John L. Holland, PhD

English/Language Arts

Prerequisites

Recent revisions to the Program of Studies (704 KAR 3:303) allows courses to be taken out of sequence, as long as students have the opportunity to master all defined content prior to graduation.

English I

Course Description: This course follows the traditional model for English I as articulated in the *Kentucky Program of Studies*. English I uses an overview of all types of literary genres, as well as informational reading, such as biographies, autobiographies, periodicals, and essays. Instruction correlates to the five required areas of the language arts: reading; writing; inquiry; speaking, listening, observing; and using technology for communication.

Guiding questions include:

- What roles do heroes play in our society?
- What are the dreams of youth and what happens as a result of those dreams?
- What makes people and cultures unique?

In addition to readings from the required text, there will be outside reading assigned in the form of novels that students may find at the local library or through the Kentucky Virtual Library (www.kyvl.org). Students may be asked to view a movie or video that complements the text work. Along with the literature, there will be grammar and mechanics work, vocabulary and writing, writing, writing. The writing and reading requirements of the *Kentucky Program of Studies* are aligned to this course. Most major writing assignments will be suitable and appropriate for the Kentucky Writing Program.

Credit value: 1

Required Textbooks and Materials - <http://www.specialty-books.com/kvhs>

Students are not required to purchase books for this course. They may be borrowed from a public library. Students must have access to the following:

- *To Kill a Mockingbird*, by Harper Lee. ISBN 0446310786
- *The House on Mango Street*, by Sandra Cisneros. ISBN 0679734775
- *The Bean Trees*, by Barbara Kingsolver. ISBN 0061097314

English II

Course Description: English II continues the study and development of skills in literature, composition and grammar through active reading and ongoing writing. Students read essays, short stories, biographies, drama and poetry. Study of the parts of speech, sentence structure, and standard usage are integrated into writing assignments. This course is 1 unit of credit.

The student will:

- Read with more skill and more confidence.
- Recognize more vocabulary words and know where to find the meaning of words the student does not understand.
- Name the characteristics of various types of literature and give examples of each.
- Recognize some basic elements of literary genres.
- Identify the basic rules of grammar.
- Identify the steps in clear, logical writing.
- Use the rules of good grammar and logical writing to produce written opinions about the literature read.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

Students are not required to purchase books or videos for this course. They may be borrowed from a public library.

- *Midsummer Nights Dream* (print copy) – William Shakespeare

Select one of the following:

- *The Pearl/The Red Pony* – John Steinbeck
- *Of Mice and Men* – John Steinbeck

Select one of the following:

- *Jane Eyre* – Charlotte Bronte
- *Great Expectations* – Charles Dickens
- *The Hot Zone* – Richard Preston
- *A Separate Peace* – John Knowles
- *Their Eyes Were Watching God* – Zora Neale Hurston

Students may rent this video from their local video store or borrow from their public library:

Midsummer Night's Dream video

English III

Course Description: English III covers American literary movements from the Native American Oral Tradition through the 20th century. Students study different genres of writing, including prose and poetry, short stories, novels, American drama and non-fiction. The readings include several classics selected by the student and teacher. During the course students study the elements of literature in the virtual classroom with other students and write and emulate the many elements of the literature studied. This includes the writing style, choice of words/semantics and the story itself.

Students will:

- Read and analyze multiple pieces of American literature.
- Respond to reading/viewing/listening experiences with written, visual and oral responses that demonstrate deliberate thought.
- Demonstrate an understanding of the focus of major writers of each time period.
- Demonstrate effective writing skills using correct grammar and proper spelling.

The writing and reading requirements of the Kentucky Program of Studies are aligned to this course. Most major writing assignments will be suitable and appropriate for the Kentucky Writing Program.

Credit value: 1

Required Textbooks and Materials

Students are not required to purchase books or videos for this course. They may be borrowed from a public library.

Required Readings

Students will be assigned additional readings throughout the course. These texts should be available in libraries and will not be required to be purchased.

English IV

Course Description: Senior English is an integrated study of literature and language arts skills. This course emphasizes British literature in both a chronological and a thematic manner. The units move ahead from the early Anglo-Saxons to the romanticism of the 18th century. Along with the British selections, students read world literature relating to the individual themes outlined in the text.

Kentucky's *Program of Studies* requires that students not only demonstrate skill in reading literary forms, but also skills of informational and practical workplace reading. Students may be asked to read articles in a current magazine or newspaper, along with demonstrating skills in reading graphs, charts and diagrams. The writing component of this course includes personal and reflective writing, literary writing, writing critical analyses, writing to learn, writing to demonstrate learning and transactive writing. Writing pieces will be assigned that will be suitable for inclusion in the Kentucky Writing Portfolio, 12th grade level. Because this is an integrated course, skills in mechanics, grammar and usage will be taught in conjunction with this component. Outside reading will take the form of choosing additional selections from the text for a good part of the semester. This text offers a wide selection of multi-cultural writers, current best sellers, contemporary non-fiction, poetry, book reviews, etc. You will be asked to share your outside reading with us through a variety of technological ways.

Credit value: 1

Required Textbooks and Materials - Students are not required to purchase books or videos for this course. Both may be borrowed from a public library.

Select one of the following:

- *Angela's Ashes* – Frank McCourt
- *West with the Night* – Beryl Markham
- *Into Thin Air* – Jon Krakauer
- *The Perfect Storm* – Sebastian Junger
- *Ben & Jerry's Double Dip* – Ben Cohen, Jerry Greenfield

And one of the following books:

- *Brave New World* – Aldous Huxley
- *20,000 Leagues Under the Sea* – Jules Verne
- *1984* – George Orwell
- *Fahrenheit 451* – Ray Bradbury
- *Space Merchants* – Frederik Pohl, C. M. Kornbush
- *Anthem* – Ayn Rand

Students may rent these videos from their local video store or borrow from their public library:

- *Hamlet* (video)
- *The Importance of Being Earnest* (video and script of play)

Introduction to Creative Writing

Course Description: Introduction to Creative Writing is an elective course that engages students in a variety of writing activities: vignettes; short stories; poems; and final folio. This course is designed for those individuals who want to learn not only new ways to write, but also new ways to think about writing.

In this class, students will write at least one vignette, two 5 - 8 page short stories, and approximately 5-10 poems during the semester. These writings will be subject to both instructor and peer evaluation. Of these pieces, one short story and two other pieces of writing (student's choice) will be submitted in the final folio. Students will be responsible for completing a series of smaller preliminary writing exercises in both fiction and poetry. All exercises will be done either through email or threaded discussion in order to simulate in-class writing exercises. Students will critique the short stories and poems of other students in the class. Students will submit threaded discussion responses on weekly readings. Students will submit an end-of-semester folio containing the three entries listed above and a one-page reflective letter.

Prerequisites

While there are no course prerequisites, students should have demonstrated interest in improving their abilities to write in a variety of forms and for multiple audiences and purposes.

Credit value: 1

Required Textbooks and Materials

There are no required textbooks for this course. Instead, students will use specific websites, the school library and the Kentucky Virtual Library (www.kyvl.org) to access course readings and other materials.

Health/Personal Fitness

Program of Studies

A one-half credit course is required in physical education for high school graduation. A local board of education may substitute an integrated, applied, interdisciplinary, or higher level course for a required course if the alternative course provides rigorous content and addresses the same academic expectations.

The purpose of this physical education course is to make a lasting difference in the physical, mental, emotional, and social well-being of students. Therefore, students learn to use the decision-making process to make informed choices regarding lifetime physical activities that meet their personal needs. Physical activities provide students opportunities to develop efficient movement patterns and learn concepts of body awareness, space, and effort. The development of body systems that operate efficiently and the application of interpersonal skills to solve problems provide the basis for students to become capable, fit adults.

Health

Course Description: Health is a unique course that focuses on the impact of life style choices on wellness and health. Topics within the course include: exercise, nutrition, mental and emotional well-being, drugs, alcohol, and the environment.

The students will:

- Develop an appreciation for the importance of well-being in all aspects of health
- Know how to use the proper steps in responsible decision-making
- Recognize risk behaviors that could jeopardize their well-being

- Understand the importance of a positive self-esteem

Prerequisites

Students enrolled in this course should have successfully completed middle school Health.

Credit value: .5

Required Textbooks and Materials

There are no required textbooks or materials for this course.

Personal Fitness

Course Description: In this Personal Fitness course, students are required to participate in weekly cardiovascular, flexibility and strength and endurance activities. Students who are unable to participate in such physical exercises will be unable to complete the requirements of this course. Students who have an Individualized Educational Plan (IEP) or some other physical limitation that prevents them from participating in physical activity should seek to enroll in an Adaptive Physical Education course.

Prerequisites

No prerequisites are required for this course.

Credit value: .5

Required Textbooks and Materials

There are no required textbooks or materials required for this course.

Mathematics

Program of Studies

High school graduation requirements include three mathematics credits: Algebra I, geometry and a mathematics elective. The minimum content for Algebra I and geometry is based on Kentucky's academic expectations. Although the Kentucky Board of Education has not specified the elective course, the content of that course should extend beyond middle level mathematics concepts. Together the three courses, Algebra I, geometry and an elective, address Kentucky's Academic Expectations 1.5-1.9, 2.7, 2.8, 2.9, 2.10, 2.11, 2.12, and 2.13.

Schools may configure the mathematics content in multiple ways. For example, schools could require Algebra I and geometry, as specified in the *Kentucky Program of Studies*, and a third mathematics course designed by the school. Or, schools could require Integrated Math I, II and III using all the content from both the Algebra I and geometry charts and additional mathematics such as data analysis. In addition, a local board of education may substitute an integrated, applied, interdisciplinary or higher level course for a required course if the alternative course provides rigorous content and addresses the same academic expectations.

Algebra I

Course Description: As students study algebra, they are introduced to: linear equations, inequalities & functions; non-linear functions; proportional reasoning, sequences; and, probability. Throughout this course, assignments illustrate how to use algebra as a tool in everyday life using problems solving, mathematical communications, reasoning and connections. Students will:

- Define, analyze, write and apply algebra concepts to real world problems.
- Use and discuss appropriate technology in the study and application of Algebra.
- Illustrate, graph, diagram and compare Algebra concepts and principles.
- Calculate and compute solutions to algebraic problems.
- Determine the best method for solving problems and list or order the steps to take to find solutions.

According to the *Kentucky Program of Studies*, districts may offer middle school students the opportunity to earn high school credit. Middle school students are admitted to this course if the student has demonstrated mastery of the middle level content as specified in the *Kentucky Program of Studies*.

Prerequisites

The student must have mastered middle level content as outlined in the *Kentucky Program of Studies*.

Credit value: 1

Required Textbooks and Materials

The cost of the required course materials is not included in the course fee.

- MyMathLab Student Stand Alone Access Kit, Prentice Hall, 4th Edition. ISBN 0 321 19991 X
- Graphing calculator

Algebra I Credit Recovery Access 6 Weeks

Required Textbooks and Materials

- MyMathTest Online Placement and Readiness Student Access Code Card
Addison-Wesley/2008/Addison-Wesley/Access Code Card/ISBN-10:0321557077/
ISBN13:9780321557070 **\$10.25 for 6 weeks of access**

Algebra II

Course Description: Algebra II includes the study of equations, systems of equations and inequalities, polynomial expressions and operations, exponential and logarithmic functions, quadratics, sequences and series, radical and rational expressions.

Students will:

- Identify and apply algebra concepts to real themes and activities.
- Use appropriate technology in the study and application of algebra.
- Demonstrate mastery of advanced algebra concepts and principles and discuss the concepts in the virtual classroom.
- Create, diagram and solve problems using algebra concepts.
- Evaluate and integrate learning from the algebra course into other subjects and learning.

The course consists of 12 chapters with 5-8 lessons in each chapter. There is an online interactive homework enhanced by multimedia and a lesson quiz in each lesson. Each chapter contains a practice test, test, and Open Response Question.

This course uses multimedia online text containing interactive exercises, simulations, video lectures, and tutorials. This Algebra II course emphasizes applications of the material in the real world.

Prerequisites

The student must have successfully completed Algebra I.

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

- MyMathLab Digital Student Stand Alone Access Kit, Prentice Hall, 4th Edition. ISBN 0 321 19991 X
- In addition, students will need a Texas Instruments TI-83 or TI 84 graphing calculator.

Calculus

Course Description: KVHS Calculus is a full credit course that can be taken in full year or block format. It provides an introduction to differential and integral calculus with emphasis placed on applications from business, economics, life, and the social sciences.

The course incorporates review of Algebra concepts and comprehensive coverage of Pre-calculus concepts essential to study of Calculus.

Topics covered are functions and their limits, derivatives, applications of derivatives, exponential and logarithmic functions, trigonometric functions, antiderivatives, definite integrals with applications, and numerical techniques with applications.

Prerequisites

Students should have mastered the concepts of Algebra II and Geometry. It is recommended, but not required that the students have taken Pre-Calculus (may be taken concurrently).

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

- MyMathLab Digital Student Stand Alone Access Kit, Prentice Hall, 4th Edition. ISBN-0-321-19991-X
- Students will need a TI-83+, TI-84+ or TI-86 graphing calculator

Geometry

Course Description: Students study the different components of geometry including: general relationships; relationships in triangles; quadrilateral relationships; other polygons and circles; congruence and similarities; measurements; and coordinate geometry. Students will:

- Define key geometry terms.
- Apply geometry concepts to real world problems.
- Illustrate geometry concepts.
- Use appropriate technology in the study and application of geometry.
- Demonstrate mastery of geometry concepts and principles.
- Diagram and compare geometrical shapes.
- Construct geometrical figures using geometry concepts.
- Evaluate proper strategies for solving geometry problems.
- Discuss geometry concepts in the virtual classroom.

Prerequisites

The student must have successfully completed Algebra I.

Credit value: 1

Required Textbooks and Materials

There are no required textbooks or materials required for this course.

Pre-Algebra

Course Description: This Pre-Algebra course provides an excellent opportunity to review basic mathematical skills and to develop new foundational skills that will help you to be successful in an algebra course.

In this course, we have tried to recreate the enjoyment of math that occurred in the early elementary grades. Throughout the course, you will be encouraged to become more actively involved in the concepts being introduced. Use your imagination to visualize the examples for each new concept as it is introduced. Do your best to relate these examples to those that may have happened in your own life. This connection will only make learning the new mathematical concepts even easier.

Success will come easily when you begin to understand the steps taken to complete this course. Learning the new concepts requires a lot of practice but it is important to remember the new focus of mathematics. As a young individual, it is important to develop conceptual understanding, the ability to reason and communicate through mathematics, and the ability to solve problems.

You may have already learned many of the concepts presented in this course. It is important to remember that the skills learned in math build on one another. The skills learned in the third grade are still being used in classes taught in high school, but the concepts are more complex, or more developed. The skills learned in Pre-Algebra are foundational skills that you will need in order to succeed in any courses to follow. Practice those that you already know to ensure your understanding and spend extra time on new concepts to develop those skills that are necessary to succeed in other classes as well as in your future out of the classroom.

Prerequisites

There are no prerequisites for this course.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course materials is not included in the course fee.

- MyMathLab Student Stand Alone Access Kit, 4rd Edition, Martin-Gay © 2005 | Prentice Hall. ISBN: 0-321-19991-X.

Pre-Calculus

Course Description: PreCalculus is a full-credit course developing knowledge and understanding of mathematical concepts in preparation for taking calculus. This course consists of 12 chapters with 5-8 lessons in each chapter. There is an online interactive homework enhanced by multimedia and a lesson quiz in each lesson. Each chapter contains a practice test, test, and Open Response Questions.

This course includes the study of functions, polynomial functions, rational expressions, equations, and functions, radical expressions, equations, and functions, exponential equations and functions, logarithmic equations and functions, and trigonometric functions. Students investigate vectors, complex numbers, and sequences and series.

Interactive exercises, video lectures, and tutorials are used throughout the course. The course emphasizes applications of the material in the real world.

Prerequisites

Students should have mastered the content for Algebra I and Algebra 2.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course materials is not included in the course fee.

- MyMathLab Student Stand Alone Access Kit, Prentice Hall, 4th Edition. ISBN-0-321-19991-X
- In addition, students will need a TI 83 or higher graphing calculator

Science

Program of Studies

High school students will continue concrete hands-on science experiences that require a minds-on approach. These concrete experiences will be developed into abstract concepts appropriate for high school students. For example, the properties of substances that students directly observed in grades P-8 can now be related to the structure of substances that cannot be directly observed (e.g., atomic and molecular structure). Another example is that the study of astronomy moves from the solar system to the universe. High school students' use of scientific inquiry will become more extensive (e.g., the study of the universe will be based on observational evidence, science concepts, and logic). They will develop a conceptual understanding of science rather than knowing a number of unrelated facts. They also will gain knowledge and abilities in applying and connecting scientific concepts to real-life.

All students are required to take three credits of science in order to graduate from high school. The three science credits shall contain the physical, earth/space and life science concepts.

Biology

Course Description: During the course students study humans and how they interact with their environment. They also discover the elements of the environment, animals, plants, vertebrates and invertebrates that make up this world. Students start at a global level and progress to the molecular level. The course outline encompasses the following: the total environment; human growth and heredity; plant adaptations; natural resource conservation; viruses; mitosis; and different types of animals.

Biology students will:

- Identify, explain, describe and apply biology concepts to real themes and activities.
- Use appropriate technology in the study and application of biology.
- Demonstrate mastery of biology concepts and principles.
- Integrate learning from other subjects and courses into their biology learning.
- Investigate and analyze biological phenomena in the world around them.

Credit value: 1

Required Textbooks

There are no required prerequisites or textbooks for this course.

Required Materials

There are some required lab items that will be needed; however, these items will be easily obtained at a grocery store, a pharmacy or a hardware store. A list of these lab items will be available from the instructor at the beginning of the course.

Chemistry

Course Description: Chemistry is designed for high school students who are preparing for college and need a strong basis in chemistry. The course emphasizes chemical reactions in the earlier chapters and more abstract material on orbitals in later chapters. Students discuss the chemical nature of matter and theoretical intricacies of atoms and orbitals. Students also use the virtual classroom to discuss and view classroom demonstrations and laboratory experiments.

Problem solving is strongly emphasized during the course and students spend considerable time guiding themselves to an understanding of the importance of learning chemistry and its relationship to everyday life. Required laboratory Internet-based Activities are included with each lesson, taking about 1 hour to complete. Additional laboratory assignments are included for enrichment.

Chemistry students will:

- Define and apply chemistry concepts to real world problems.
- Describe and discuss chemistry concepts in the virtual classroom.
- Use appropriate technology in the study and application of chemistry.
- Construct, observe and participate in experiments using chemistry concepts.
- Compare and contrast different chemistry concepts and propose and analyze their application to real-life situations.
- Demonstrate mastery of chemistry concepts and principles.

Prerequisites

It is recommended that students complete Algebra I before participating in this course.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course materials is not included in the course fee.

- Students will need a scientific calculator
- Chemistry materials:
 - Chemistry Lab Kit includes
 - Adult Safety Goggles (plastic)
 - Cylinder (100mL, plastic)
 - Immersion Thermometer

Students should have access to:

- Microsoft Excel
- Be capable of submitting their work in *.rtf format to the instructor

Labs: Students will learn experimental lab methodology through a variety of computer-based learning activities. These activities are designed to incorporate the learning goals of the laboratory activities recommended by The College Board. Successful completion of these activities will prepare a student to answer the laboratory questions on the AP Science Exams. Because wet laboratory experience is an important component of college science courses, The College Board recommends that AP science courses include wet laboratory activities. This course includes an optional wet laboratory component that schools or teachers can provide for their students. Wet labs require a lab supervisor, specified lab materials and the lab manual. To find a list of materials for the labs, go to <http://support.apexlearning.com>, choose the product you are using and click on Get Started, then click on Course and Lab Materials.

Earth and Space Science

Course Description: This course examines the nature of science and uses different strategies to explore topics from the earth's interior to the outermost regions of the universe. Students will investigate the fundamental processes of the earth and space. Information derived from the disciplines of astronomy, geology, meteorology and oceanography are examined and applied to the understanding of natural phenomena and their impact to society and the environment. Each new lesson will build from previous material to portray how the different deep space and earth systems work together to influence all life.

The course is divided into five sections:

- Unit 1 - Nature Of Science
- Unit 2 - Energy In Earth Systems
- Unit 3 - Biogeochemical Cycles
- Unit 4 - Formation and Ongoing Changes of the Universe
- Unit 5 - Formation and Ongoing Changes of the Earth System
- Unit 6 - Geologic Processes
- Unit 7 - The Ocean and Atmosphere
- Unit 8 - Astronomy

The course is offered with three options. Note that if the student is placed in either the Earth Science or Space Science B half-credit class, the course will contain the Unit on the Nature of Science:

Credit value: 1

Required Textbooks and Materials

There are no required prerequisites, textbooks or materials for this course.

Honors Physics (KET)

Course Description: Honors Physics is a one-year high school course for students with career plans in science, math, engineering, medicine, and similar fields. This course provides a track for students who want to learn physics at a high level, but who are not interested in the full AP Physics B program.

The course uses the same college textbooks as the AP course, but features a shortened syllabus, as well as somewhat less demanding homework, and tests. It would be an excellent choice for students interested in medical careers.

The course provides full instruction on all topics on a subset of the 27 CD-ROMs used in the AP course. Nearly every phenomenon studied is illustrated by animation and/or video. In all cases, the student has complete control of the flow of the instruction. The student can take a second look at a difficult passage in the lecture and fast-forward past another. All the tools used in the lessons are available for use during review or while doing homework. Lectures and demonstrations are integrated with lessons in problem solving.

Students may work independently, with minimal need for supervision at their school. However, schools with several interested students might consider having the students work as a group. Such a group would require some supervision. The teacher is available via e-mail and phone when help is needed. Tests are graded by the teacher. Homework is graded by computer. Students may re-try missed homework until they are successful.

Prerequisites

The suggested prerequisites for this course are Algebra II, Geometry, Trigonometry. A previous Physics course is recommended.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course materials is not included in the course fee.

- *Physics 5th Edition*, Peoples Education, ISBN 978-0-471-32146-0, Phone: (800) 822-1080 **OR** 6th Edition, ISBN 978-0-471-15183-8 **OR** *Physics 7th Edition*: ISBN #978-0-471-66315-7, **OR** *Essentials of Physics*: ISBN #978-0-471-71398-2 (one per student)

The instructional CDs (\$50) or DVDs (\$20) are invoiced from KET. Visit <http://www.dl.ket.org/kvhs> for additional information.

Oceanography

Course Description: In this introductory laboratory course offered via the Web, students construct an applied knowledge of the characteristics of aquatic systems. Students study ocean structure and marine ecology through hands-on exploration of coastal waters, open ocean waters, deep ocean waters, coral reefs, kelp forests, deep ocean vents, and tide pools. Through guided practice of the scientific model and with household instruments, the student conducts a field study of a local aquatic structure for the final project. Basic computer skills are recommended.

Students will learn about:

- Abiotic and biotic factors
- Effects of currents, waves, light, temperature, salinity, pressure, and oxygen on the biotic factors living in an aquatic ecosystem
- Marine ecology in the coastal waters, coral reefs, open ocean, and deep ocean environments
- Ecosystems of the tidepools and antarctic seas
- Field studies in an aquatic environment

Credit value: .5

Required Textbooks and Materials

There are no prerequisites, textbooks, or materials required for this course.

Physics I (KET)

Course Description: This course will offer students a general preparation in Physics. While the appropriate use of mathematics is employed to most efficiently describe natural phenomena, a considerable effort is made to apply physical principles to everyday phenomena. In this way the course serves a dual role in that it will prepare students for a more mathematically intensive college physics course while making the principles learned more meaningful and useful in everyday life.

Prerequisites

Students should have successfully completed Algebra II.

Credit Value: 1

Required Textbooks and Materials -<http://www.specialty-books.com/kvhs>

- *Physics Principles & Problems* (Student Ed.), Glencoe/McGraw-Hill, Phone: 800.334.7344, ISBN #0-02-825-4732 **OR** (2002 Ed.) ISBN #978-0-078-23896-3 **OR** (2005 Ed.) ISBN #978-0-078-45813-2.

- *Physics Laboratory Kit*, Arbor Scientific, Phone: 800.367.6695, FAX: 313.973.6258, Part KE-1000 Lab Kit **(one per 3 students)**, \$144.00 plus shipping, and Part KE-1001 Lab Kit **(one per school)** \$45.00
- The student materials fee (\$10) and instructional videotapes (\$198) are invoiced from KET, 1-800-333-9764. Visit <http://www.dl.ket.org/kvhs> for additional information.

Introductory Physics

Course Description: This Introductory Physics course introduces fundamental topics in classical and modern physics. The course covers two semesters. The first semester discusses topics in Newtonian mechanics, oscillatory motion, waves, sound, fluids, heat, and Thermodynamics. The second semester discusses the topics of static electricity, current electricity, electric circuits, magnetism, physical optics, geometric optics and selected topics in modern physics. This course includes a variety of multimedia resources with videos, simulations, and interactive activities. The students will develop conceptual understanding of basic physics principles and learn elementary problem solving skills. There are interactive conceptual and basic problem-solving exercises throughout the lessons. The students will also gain laboratory experience through virtual labs and simulations.

Prerequisites

Students should have successfully completed Algebra I and Algebra II.

Credit value: 1

Required Textbooks and Materials

No text is required. All content is in the course in digital format.

Social Studies

Program of Studies

Three credits in social studies are required for high school graduation. These credits must incorporate the five social studies disciplines of U.S. history, economics, government, world geography and world civilization. Districts and schools can arrange the essential content within the three-credit requirement to best meet their needs. A local board of education may substitute an integrated, applied, interdisciplinary or higher level course for a required course if the alternative course provides rigorous content and addresses the same academic expectations. The high school social studies program is designed to provide an integrated and comprehensive course of study. Each discipline description contains connections to other areas of the social studies. Because of this design, students will experience the richness and complexity of the social studies.

Anthropology

Course Description: In this interactive course offered via the Web, students become familiar with their own culture, and they are introduced to cultures from around the world and from different periods in history. The course uses five Roots of Culture: Family, Land, Death, Identity, and Power to explore the similarities and differences in cultural roles in various times and places. Basic computer skills are recommended.

Credit value: 1

Required Textbooks and Materials

There are no prerequisites, textbooks, or materials required for this course.

Consumer Economics

Course Description: Developed by the Kentucky Council on Economic Education with the Kentucky Virtual High School, "Living, Learning, and Earning: Consumer Economics" is an interactive one-half credit course that will prepare students with the information and decision making skills they need to be successful consumers, business people, entrepreneurs, workers, citizens, and members of the global economy.

This course is built around real-life, practical issues, such as career choice and credit cards and the stock markets. Economics concepts are integrated into the materials to aid in understanding real-life issues. Students will practice using economic decision-making to solve real-life problems they will likely face in their future. This course also integrates the vast educational resources of the Internet and represents a technology education opportunity for students.

Credit value: .5

Required Textbooks and Materials

There are no required prerequisites, textbooks or materials for this course.

World Geography

Course Description: The study of World Geography allows students to understand the world around them. Through focused learning activities students will discover how they fit into this constantly changing world. Students will explore the world, and Geography, in ways that are not normally done in a classroom-based course.

Credit value: 1

Required Textbooks and Materials

There are no required prerequisites, textbooks or materials for this course.

Psychology

Course Description: In this interactive course offered via the Web, students explore concepts of psychology through life-like scenarios focusing on aggression, addictive behavior, memory, interpersonal relations, and self-care. Students explore scientific methods of research as well as the major schools of psychology as they relate to issues in the five primary focus areas. Basic computer skills are recommended.

Credit value: .5

Required Textbooks and Materials

There are no required textbooks or materials for this course.

United States History

This course follows the Kentucky Program of Studies and related core content beginning with an in-depth review of the Constitution and the Civil War. The course focus is on 1880 to the 21st century.

Prerequisites

Students should have successfully completed English I.

Credit value: 1

Required Textbooks and Materials

There are no required textbooks or materials for this course.

Geography/Social Sciences

The Geography Social Sciences course is a social studies elective. The course is organized into 10 major topics:

<u>Topic 1-The Five Themes in Geography</u>	<i>Location, Place, Human-Environment Interaction, Movement, Region</i>
<u>Topic 2-The Geography of Earth</u>	<i>Atmosphere-Climate-Landforms</i>
<u>Topic 3-Online Geography Resources</u>	<i>Reference Materials-Databases-Mapping Tools</i>
<u>Topic 4-Interpreting Data</u>	<i>Statistics-Maps-Charts-Diagrams-Tables</i>
<u>Topic 5-Regions of the World</u>	<i>Continents-Countries-Cultural Regions</i>
<u>Topic 6-World Populations</u>	<i>Demographics-Regional Growth-Global Growth-The Future</i>
<u>Topic 7-Economic Geography</u>	<i>Global Economics-Regional Economics-Imports and Exports</i>
<u>Topic 8-The Environment and World Resources</u>	<i>Land-Water-Air-Energy-Exploration-Conservation-Recycling</i>
<u>Topic 9-Current Issues in Geography</u>	
<u>Topic 10-State and Local Issues</u>	

Credit Value: 1

Required Textbooks and Materials

There are no required textbooks or materials for this course.

World Civilization

This course covers information about Early and Classical Civilizations. The first half of the course covers the birth of civilizations, Mesopotamian Civilizations, Ancient Egypt, Hebrew Civilization, Ancient Civilizations of Europe, and Civilizations of Early India and China. The second half of the course covers Classical Civilizations including the rise of new empires around the world, Europe in the Middle Ages, and the early Modern Era in Europe.

Credit value: 1

Required Textbooks and Materials

There are no required prerequisites, textbooks or materials for this course.

World Language

Program of Studies

In an increasingly interdependent world, dealing with the international market and developing cross-cultural understanding are paramount. Second language study plays a vital role in preparing students for living in a global society. Academic Expectations 2.27 and 2.28 state that students will recognize and understand the similarities and differences among languages, and understand and communicate in a second language. Elementary and middle school second language programs, particularly full or partial immersion programs, capitalize on the natural capacities of children to imitate and assimilate the sound and structural system of a language. Although single or multi-language exploration programs of short or long duration do not stress language skills, they do build cultural awareness. Secondary programs may either build on previous learning or initiate new knowledge.

The curricular framework of a second language program encompasses five organizing principles: communication, cultures, connections, comparisons and communities.

- Communicating in a language other than English is central to second language study, whether that communication is in the form of conversation, writing or through the reading of literature.
- Mastery of the language cannot be achieved without a knowledge and understanding of the cultures in which it is used. The understanding of the perspectives and beliefs of other cultures greatly improves students' abilities to function in a global environment.
- The study of second languages offers connections to other content areas, thus allowing students opportunities to reinforce their learning and skills in other disciplines.
- Second language study provides insights into students' native languages and culture. Through comparisons of other cultural and linguistic systems, the study of second languages helps students develop critical thinking skills.
- Knowledge of other languages and cultures prepares students for life and work in multilingual and multicultural communities.

French I

Course Description: Using a variety of audio, reading, pictorial, and written exercises, students quickly learn to recognize targeted vocabulary and start incorporating basic grammatical concepts: articles, plurals, and noun/adjective gender agreement; vowel and consonant pronunciation; sentence patterns; numbers and counting; introductions and greetings, directional symbols, body parts, geography, and other vocabulary. In every lesson, students practice reading and comprehending French text, and then use the vocabulary from those readings to increase their speaking fluency. Written tests and projects will be mailed for grading.

Credit value: 1

Required Textbooks

There is no text required for this course.

Recommended Materials

Students must have access to:

- French-English/English-French dictionary of choice
- Headset or microphone/ speakers for computer

French II

Course Description: Building on what they learned during the first year, students will increase their speaking confidence, vocabulary, reading comprehension, sentence construction skills, cultural knowledge, and their grammar, including: object and reflexive pronouns, natural vs. arbitrary gender, and past and present verb tenses. By the end of the course, they should be able to rewrite the ending to a story, use simple phrases to expand conversations, and follow a story line with full comprehension.

Prerequisites

Students should have successfully completed French I or be able to demonstrate competency equivalent to content and skills in French I.

Credit value: 1

Required Textbooks

There is no text required for this course.

Recommended Materials

Students must have access to:

- French-English/English-French dictionary of choice
- Headset or microphone/ speakers for computer

French III

Course Description: French III draws on a variety of themes to promote extensive development of reading and writing skills and to reinforce oral communication skills. Students will gain a greater understanding of French-speaking cultures in Canada and around the world through their readings of a variety of materials, including a short novel or a play. Students will produce various written assignments, including a formal essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.

Prerequisites

Students should have successfully completed French I and II or be able to demonstrate competency equivalent to content and skills in French I and II.

Credit value: 1

Required Textbooks

There is no text required for this course.

Optional Textbooks- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- *Allez, Viens!, Level 3 ©2006, Premier Online Edition with Student Edition CD-ROM (6 yr subscription)*. Holt, Rinehart and Winston. Product Code: H41192-0
ISBN: 0030411920

Recommended Materials

Students must have access to:

- French-English/English-French dictionary of choice.
- Headset, or microphone/ speakers for computer.

German I (KET)

Course Description: *Hallo!* Do you recognize these German words: *Auto, Kindergarten, Garten, Jeans?* German and English are related languages. Students in this course will use video, audio, telephone and the Internet to help them learn the basic skills of communicating in the German language.

The interactive, multi-media approach engages students in mastering the basic skills of listening, speaking, reading and writing. The course content is delivered via CD-ROM. The instructor integrates the Annenberg video series *Fokus Deutsch* and its accompanying textbook/workbook materials to present students with an authentic picture of the language and culture of the German-speaking countries. The goals of the course are aligned with the National Standards for Foreign Language Teaching.

Written tests and projects will be mailed for grading. Fifteen-minute conversation lessons, delivered via telephone, are required each week. These lessons are scheduled between the hours of 8:30 a.m. and 4 p.m. ET, Monday through Friday.

Prerequisites

A full course description can be found at <http://www.dl.ket.org/kvhs/faq/schedule.htm>

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- *Deutsch Aktuell I*, 5th Edition, Student Text, EMC/Paradigm Publishing, ISBN: 978-0-82192-537-9
- *Deutsch Aktuell I*, Workbook - Student Edition, EMC/Paradigm, ISBN: 978-0-82192-539-3
- *New College Dictionary German/English - English/German*, American Map-Langenscheidt Publishing Group, ISBN: 0 8872 9044 2. (one for classroom)

The student materials fee and the instructional CDs (\$50) or DVDs (\$198) are invoiced from KET. Visit <http://www.dl.ket.org/kvhs/> for additional information.

German II (KET)

Course Description: *Grüß Euch!* Did you know that many European countries use German as their primary language? In the German II course, students will maintain and build upon the concepts learned in German I to improve their communication skills. Using the multimedia approach established in German I, students will continue their study of the diverse German culture and its speakers.

The course content is delivered via CD-ROM. The instructor integrates the Annenberg video series *Fokus Deutsch* and its accompanying textbook / workbook materials to present students with an authentic picture of the language and culture of the German-speaking countries. The goals of the course are aligned with the National Standards for Foreign Language Teaching.

Written tests and projects will be mailed for grading. Fifteen-minute conversation lessons, delivered via telephone, are required each week. These lessons are scheduled between the hours of 8:30 a.m. and 4 p.m. ET, Monday through Friday.

Prerequisites

Successful completion of German I or approval of the KVHS teacher is required. Call KET at 1-800-333-9764 for approval.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- *Auf Deutsch!*, Level 2, Pupil's Edition, McDougal Littell, ISBN: #978-0-618-02962-4, Title Code: 2-91177
- *Auf Deutsch!*, Level 2, Workbook - Pupil's Edition, McDougal Littell, ISBN: #978-0-618-02968-6, Title Code: 2-91183
- *New College Dictionary German/English - English/German*, American Map-Langenscheidt Publishing Group, ISBN: #978-1-58573-518-1. (one for classroom)
- *Klett Political Map of Germany* - International Book Service, Inc., 161 Main Street, P.O. Box 8188, Lynchburg, TN 37352-8188, Phone: 800.277.4247, FAX: 866.277.2722, ISBN: #3-623-00282-8, \$7.79 (one for classroom)

The student materials fee and the instructional CDs (\$50) are invoiced from KET. Visit <http://www.dl.ket.org/kvhs/> for additional information.

German III (KET)

Course Description: *Was gibt's Neues?* Did you know Germany is the largest market in Europe and the third-largest market worldwide for telecommunication products? In the German III course, students continue to develop and expand their speaking, listening, reading and writing skills at a higher level of difficulty. They will review many of the language patterns learned in the first two levels of study. An understanding of the cultures of the German-speaking countries and their people continues to be an integral component of the content. This fosters a respect and appreciation for the diversity of cultures in general.

In this accelerated course, the instructor continues to integrate the Annenberg video series *Fokus Deutsch* and its accompanying textbook / workbook materials to present students with an authentic picture of the language and culture of the German-speaking countries. The interactive and multi-media approach is maintained at this level. The goals of the course are aligned with the National Standards for Foreign Language Teaching.

Written tests and projects will be mailed for grading. Fifteen-minute conversation lessons, delivered via telephone, are required each week. These lessons are scheduled between the hours of 8:30 a.m. and 4 p.m. ET, Monday through Friday.

Prerequisites

Successful completion of German II and teacher recommendation. Call KET at 1-800-333-9764 for approval.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- *Fokus Deutsch, Intermediate German* (Student Edition), McGraw-Hill, ISBN: #978-0-072-33660-3.
- *Workbook/Lab Manual FOKUS DEUTSCH Intermediate German*, McGraw-Hill, ISBN: #978-0-070-27602-4.
- *Sowieso Level 2 Lesevergnügen, Reader/Activity Book*, Langenscheidt Publishing, 4635 54th Road, Maspeth, NY 11378, Phone: (800) 432-6277, FAX: (718) 784-1216, ISBN: #978-3-468-47711-9. <http://langenscheidteduc.com> (one per student).

- *English Grammar for Students of German*, 4th Edition, The Olivia and Hill Press, 3460 E. Ellsworth, Ann Arbor, MI 48108, Phone: 734.971.0202, FAX: 734.971.0220, ISBN: #978-0-934034-31-9, \$16.95 (one for classroom)
- *New College Dictionary German/English - English/German*, American Map-Langenscheidt Publishing Group, Customer Service, 15 Tyger River Drive, Duncan, SC 29334, Phone: 800.432.6277, FAX: 888.773.7979, ISBN: #978-1-58573-518-1, \$49.95 (one for classroom)
- *Klett Political Map of Germany* - International Book Service, Inc., 161 Main Street, P.O. Box 8188, Lynchburg, TN 37352-8188, Phone: 800.277.4247, FAX: 866.277.2722, ISBN: #3-623-00282-8, \$7.79 (one for classroom)
- CD and student materials notebook from KET, 1-800-333-9764.

The student materials fee and the instructional CDs (\$50) are invoiced from KET. Visit <http://www.dl.ket.org/kvhs/> for additional information.

Latin I (KET)

Course Description: During the course, students will study the vocabulary and structures of Latin in a way that will improve their ability to decode English words and their understanding of the English language while preparing them to study other languages. Mythology and an overview of Roman contributions to Western civilization are stressed. This background often improves performance on achievement tests.

Students learn Latin by actually reading it and discovering for themselves the shapes of words, the structures of grammar and vocabularies. The story line follows the daily life and adventures of the Corneli, a typical Roman family in the years A.D. 80-81, and the readings familiarize students with Roman culture at the same time that they build rapid facility with the Latin language.

The course offers study of the Latin language, incorporating listening, speaking, reading and writing skills, word building, English derivatives, Roman culture and classical mythology.

Through taking this course, students will:

- Read aloud the Latin of ancient authors with confidence.
- Demonstrate comprehension of grammatical aspects of Latin and English.
- Develop listening skills and speaking for patterned Latin passages.
- Develop an appreciation of classical mythology of Greece and Rome.
- Develop an awareness of the culture of the ancient Romans, its historic significance and its contemporary relevance.
- Demonstrate an enhancement of general language skills.
- Increase vocabulary through a knowledge of the origin and derivation of words.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- *Ecce Romani Level I, Student Book*, (2nd Edition). Prentice Hall, School Division. ISBN #978-0-801-31201-4, Order No.: 79725 **OR** the 3rd Edition, ISBN #978-0-673-57585-2 **OR** *Ecce Romani Level I Student Book*, 2005 edition, ISBN #978-0-131-16370-6.
- *Ecce Romani Student Language Activity Book I-A*, Prentice-Hall, ISBN: #978-0-801-31209-0, Order No.: 79733
- *The New College Latin & English Dictionary*, AMSCO School Publications, Inc. ISBN #978-0-877-20561-6, Order No.: R617P (optional for classroom)
- CD and student materials folder from KET, 1-800-333-9764.

The student materials fee and the instructional CDs (\$50) are invoiced from KET. Visit <http://www.dl.ket.org/kvhs/> for additional information.

Latin II (KET)

Course Description: During this course, students will receive instruction via CDs prepared by the teacher and mailed with other pertinent materials at the beginning of the course.

The goal of this course is to build on the knowledge and skill acquired in Level I. Students apply deductive reasoning skills to learn new grammar and vocabulary, enhance their reading and writing skills and grow in their understanding of the Roman world, its culture, mythology and history.

Prerequisites

Successful completion of KET Latin I or teacher recommendation. Call KET at 1-800-333-9764 for approval.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- *Ecce Romani Level II Student Book*, (2nd Edition), Prentice Hall, ISBN#978-0-801-31202-1. Order No. 79726 **OR** the 3rd Edition, ISBN #978-0-673-57586-9 **OR** *Ecce Romani Level II Student Book*, 2005 edition, ISBN #978-0-131-16380-5.
- *The New College Latin & English Dictionary*, AMSCO School Publications, Inc. ISBN #978-0-877-20561-6, Order No.: R617P (optional for classroom)
- CD and student materials folder from KET, 1-800-333-9764.

The student materials fee and the instructional CDs (\$50) are invoiced from KET. Visit <http://www.dl.ket.org/kvhs/> for additional information.

Latin III (KET)

Course Description: Instruction for this course is delivered solely via Internet. Good connectivity is important. During this course students increase vocabulary and grammar skills and read many authentic Latin writings.

Students increase their understanding of the culture, history and mythology of the ancient world. By listening to poetry and narratives on the Internet, writing from dictation and responding to oral stimuli in Latin. Students also develop aural/oral skills that are a useful carry over to modern language study.

During this course students will:

- Finish the corpus of Latin grammar.
- Acquire proficiency in reading in Latin.
- Become acquainted with Latin authors.
- Learn more about the period of the republic.
- Perfect deductive reasoning skills.
- Develop writing skills in Latin.
- Appreciate rhetorical devices used in Latin and English.
- Have opportunities to create original works in Latin and English.
- Share their knowledge with others.
- Grow in abilities to learn from peers.
- Meet Latin III students in other schools electronically.
- Increase skills in working with the Internet.

Prerequisites

Successful completion of KET Latin II or teacher recommendation. Call KET at 1-800-333-9764 for approval.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- *Ecce Romani Book III Student Book* (softcover), Prentice Hall, ISBN: #978-0-801-31208-3. Order No.: 79734. **OR** *Ecce Romani Level III Student Book*, 3rd Edition (hardcover). ISBN: #978-0-673-57587-6 **OR** *Ecce Romani Level III Student Book*, 2005 Edition (hardcover), ISBN #978-0-131-16387-4
- *The New College Latin & English Dictionary*, AMSCO School Publications, Inc. ISBN #978-0-877-20561-6, Order No.: R617P (optional for classroom)

The student materials fee is \$10 for a student guide notebook which is invoiced from KET. Visit <http://www.dl.ket.org/kvhs/> for additional information.

AP Latin Literature (KET)

Course Description: Latin Literature is designed to allow students to read Latin authors, analyze their writings and discuss them with other students and the teacher. Students read selections from Latin authors, Caesar, Cicero, Augustus, Pliny, Trajan and Eutropius. Grammatical concepts and Latin vocabulary are reinforced in the context of these works. Upon completion of this segment, students read from Catullus and Horace to prepare them for the Advanced Placement Latin Literature exam.

During this course, students:

- Gain introspective into the life of the late Republic and early Empire through selected writings of Roman authors such as Caesar, Cicero, Augustus, Pliny, Trajan and Eutropius
- Become familiar with about 1,200 lines of poetry of Catullus and Horace
- Write literal translations of sight passages.
- Identify and analyze the individual characteristics of different authors such as uses of imagery, figures of speech, metrical effects, and onomatopoeic significance.
- Scan poetry and appreciate the metrical sound effects.

Prerequisites

Successful completion of KET Latin III or teacher recommendation. Call KET at 1-800-333-9764 for approval.

Credit value: 1

Required Textbooks and Materials- <http://www.specialty-books.com/kvhs>

The cost of the required course materials is not included in the course fee.

- *The New College Latin & English Dictionary*, AMSCO School Publications, Inc. ISBN #978-0-877-20561-6, Order No.: R617P (optional for classroom)
- Students must have access to Perseus Literature website for Catullus and Horace poems.

The student materials fee is \$10 for a student guide notebook which is invoiced from KET. Visit <http://www.dl.ket.org/kvhs/> for additional information.

Mandarin Chinese I

Course Description: In this course you will learn the basic Chinese language. After one semester, you will be able to greet people, introduce yourself to others, count from 1 to 100, ask

questions and express likes and dislikes in simple Chinese sentences. You will also learn 160 "magical" Chinese characters. As you walk through the units with us step by step, you will get to know not only the language itself, but also the culture where the language takes place and keeps developing.

At the very beginning, we will start by introducing you to a general knowledge of Pinyin, Mandarin Chinese, Chinese dialects, and Chinese characters.

Required Textbooks

There is no textbook required for this course.

Required Materials

- Chinese-English/English-Chinese dictionary of choice
- Headset, or microphone/speakers for computer

Credit value: 1

Mandarin Chinese II

In this course students will continue learning to use Chinese to read, write and converse. In-depth cultural topics will be covered.

Prerequisites

Students should have successfully completed Mandarin Chinese I or be able to demonstrate competency equivalent to content and skills in Mandarin Chinese I.

Credit value: 1

Required Textbooks

There is no textbook required for this course.

Required Materials

Students must have access to:

- Chinese-English/English-Chinese dictionary of choice
- Headset, or microphone/speakers for computer

Spanish I

Course Description: In this course, students will begin a journey toward Spanish acquisition in which the final goal is to communicate. The course is designed with thematic units that enable students to connect learning with real-life situations.

The goals of this course are:

- To enable students to understand spoken Spanish language in a variety of natural language settings
- To offer students the opportunity to practice listening, reading, speaking, and writing Spanish
- To offer students the opportunity to practice pronunciation by listening to audio clips, as well as recording and listening to their own voice
- To offer students the opportunity to optimize awareness of the different Spanish cultures and therefore to appreciate and respect their differences
- To offer students the opportunity to enhance study skills through management of language acquisition

Each week students are asked to do various reading and/or writing assignments in their journal for practice of reading and writing skills. Spelling, punctuation and correctness of expression are important in the journal. Each week students are given words, conversations or passages to read and record for the instructor. The threaded discussion area is the student's online Spanish chat area. Using what they have learned each week, students communicate in Spanish and respond to the postings of their classmates. Students submit a minimum number of webliography entries pertaining to the countries of Spain, Argentina and Peru or to Hispanic culture, language or history. Students have several exams during each semester.

Credit value: 1

Required Textbooks

There is no textbook required for this course.

Recommended Materials

Students must have access to:

- Spanish-English/English-Spanish dictionary of choice.
- Headset, or microphone/ speakers for computer.

Spanish II

Course Description: In this course, students continue their journey toward Spanish language acquisition in which the final goal is to communicate. The course is designed with thematic units that enable students to connect learning with real-life situations. Spanish II follows the format of KVHS Spanish I.

The goals of this course are:

- To enable students to understand spoken Spanish language in a variety of natural language settings
- To offer students the opportunity to practice listening, reading, speaking, and writing Spanish
- To offer students the opportunity to practice pronunciation by listening to audio clips, as well as recording and listening to their own voice
- To offer students the opportunity to optimize awareness of the different Spanish cultures and therefore to appreciate and respect their differences
- To offer students the opportunity to enhance study skills through management of language acquisition

Each week students are asked to do various reading and/or writing assignments in their journal for practice of reading and writing skills. Spelling, punctuation and correctness of expression are important in the journal. Each week students are given words, conversations or passages to read and record for the instructor. The threaded discussion area is the student's online Spanish chat area. Using what they have learned each week, students communicate in Spanish and respond to the postings of their classmates. Students submit a minimum number of webliography entries pertaining to the countries of Spain, Argentina and Peru or to Hispanic culture, language or history. Students have several exams during each semester

Prerequisites

Students should have successfully completed Spanish I or be able to demonstrate competency equivalent to content and skills in Spanish I.

Credit value: 1

Required Textbooks

There is no textbook required for this course.

Recommended Materials

Students must have access to:

- Spanish-English/English-Spanish dictionary of choice.
- Headset, or microphone/ speakers for computer.

Spanish III

Course Description: New for fall 2003, Spanish III continues a multimedia approach to the student's language acquisition and appreciation for the Spanish-speaking cultures. This course is designed to prepare students for Spanish IV and/or AP Spanish Language.

Following the format of Spanish I and II, the class is divided into weekly units. In each unit students have exercises, reading and listening comprehension activities, writing assignments, audio material and Power Point presentations to help learn the material contained in the unit.

Prerequisites

Students should have successfully completed Spanish I and II or be able to demonstrate competency equivalent to content and skills in Spanish I and II.

Credit value: 1

Required Textbooks- <http://www.specialty-books.com/kvhs>

The cost of the required course textbooks or materials is not included in the course fee.

- *¡Exprésate! Level 3, ©2008, Student Edition* and Interactive Online Edition with Live Ink® Online Reading Help (6 yr subscript). Holt, Rinehart, and Winston. Product Code: h94301-9
ISBN: 0030943019

Recommended Materials

In addition, students must have access to:

- Spanish-English/English-Spanish dictionary of choice.
- Headset, or microphone/ speakers for computer.