KHS
GRADUATION
AND
COURSE GUIDE
2021-2022
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(309) 289-2324
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MINIMUM GRADUATION REQUIREMENTS

Students graduating from Knoxville High School are required to have twenty-four (24) credits. Students are required to take a class load that will generate 6 credits per year. It is possible to earn 7 credits per year by carrying an extra class and not having a study hall during the course of the regular school day.

**Class Standing**—The following credit schedule must be met in order to be classified in a specific class. Student lockers, class meetings, and certain programs are organized by classes. Students will attend the class activities that they are so classified. Students will only be classified at the beginning of each school year. **Reclassification may be done at mid-year in certain cases.**

**Sophomores**—Must have a minimum of 5 credits earned by the start of the fall semester.

**Juniors**—Must have a minimum of 11 credits earned by the start of the fall semester and must have passed two full credits of English, and one full credit of mathematics, science and history. This promotion gate enables KHS to ensure a minimum academic performance threshold prior to grade promotion.

**Seniors**—Must have a minimum of 17 credits earned by the start of the fall semester. (A senior with only 17 credits would have to carry 7 classes in order to graduate with their class).

**Course Requirements**—The following courses are specifically required as part of the 24 total hours required to graduate:

<table>
<thead>
<tr>
<th>Credits</th>
<th>Department/Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>English I, II, III, and IV</td>
</tr>
<tr>
<td>3</td>
<td>Math</td>
</tr>
<tr>
<td>3</td>
<td>Government/Civics (1), U.S. History (1), &amp; Electives (1)</td>
</tr>
<tr>
<td>3</td>
<td>Science</td>
</tr>
<tr>
<td>1</td>
<td>Art, Music, Foreign Language, or Vocational</td>
</tr>
<tr>
<td>1/2</td>
<td>Drivers' Education</td>
</tr>
<tr>
<td>1/2</td>
<td>Resource Management</td>
</tr>
<tr>
<td>1/2</td>
<td>Health</td>
</tr>
<tr>
<td>3 1/2</td>
<td>Physical Education or qualify for a P.E. waiver</td>
</tr>
</tbody>
</table>

The above graduation requirements are the minimum requirements needed to graduate from Knoxville High School. Most students graduate with significantly more credits than these minimum standards. Students are encouraged to plan a course of study that will prepare them for college, a technical school, or a career.

In order to meet the educational needs of students and provide opportunities for students to reach their fullest potential they must be scheduled in appropriate courses. Therefore, Knoxville High School will use individual student data to build appropriate student schedules. KHS will place the courses for students in the following required courses: English, Mathematics, Science, Social Studies, PE, Health, Driver's Education, and Consumer Education. Placement will be based on students' standardized test scores, previous grades, teacher referral/recommendation and/or student's post secondary goals.

Students will be able to choose electives each year as described below. Most students find it helpful to plan a sequential course of study for all four years of high school. Students who complete their registration request form by the yearly deadline will have priority over other students. To allow for effective scheduling, students are expected to remain in their requested courses for the entire year. **Regretfully, we are unable to change student schedules because the student "changed their mind."** The KHS Student Handbook outlines this policy and it is reinforced by administration. Parents should be involved throughout this process. **Plan carefully!**
**Grade Level Requirements**—All students must be enrolled in a minimum of six courses each year. Each student will be assigned to a 30-minute homeroom period, which will allow for supervised study time. If desired, students may elect to take one study hall in addition to their required homeroom period. Certain individual courses are specifically required of all students during each year of high school; however, some of these courses may be taken out of sequence. For instance, there will be students who take Driver’s Education as freshmen and this will take up one of their electives. These grade level requirements are listed below:

<table>
<thead>
<tr>
<th>FRESHMEN</th>
<th>SOPHOMORES</th>
<th>JUNIORS</th>
<th>SENIORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>English I</td>
<td>English II</td>
<td>English III</td>
<td>English IV</td>
</tr>
<tr>
<td>Math</td>
<td>Math</td>
<td>Math</td>
<td>PE</td>
</tr>
<tr>
<td>Science</td>
<td>Science</td>
<td>Science</td>
<td>Electives (4.5)</td>
</tr>
<tr>
<td>Government</td>
<td>Driver’s Education (1/2)</td>
<td>U.S. History</td>
<td>Resource Mgt. (1/2)</td>
</tr>
<tr>
<td>PE</td>
<td>PE</td>
<td>PE</td>
<td>Electives (2)</td>
</tr>
<tr>
<td>Electives (2)</td>
<td>Health (1/2)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ILLINOIS VIRTUAL SCHOOL**

Illinois Virtual School courses are available to students as either an enrichment opportunity or credit recovery option. This option serves as a means of developing flexibility in their daily schedule and as a means of helping students use and develop technologically-based learning skills. IVS classes may be taken by junior and senior students (others may be allowed at the discretion of the administration). Courses taken for credit recovery will be taken Pass/Fail and **elective enrichment courses will be graded.**

IVS courses are offered only for elective courses which are not a part of the school's core curriculum, unless there is a special circumstance or conflict for the student in which case the administration will intervene. Juniors and seniors may not carry any more than two (2) courses per semester. **Students may not apply more than four (4) IVS or other online credits toward graduation requirements unless specifically approved by KHS administration and the school board.**

To initiate IVS coursework the student must complete the entire course registration process and indicate to the counselor the desire to take an IVS course. The appropriate personnel will evaluate the student's ability to work independently as well as the appropriateness of the class in their course of study before recommending the course. Administrative approval is required.

If a student chooses to withdraw after the IVS non-refundable deadline or the student fails the course, he/she will be responsible for reimbursement of the fees paid by Knoxville High School on their behalf.
DUAL CREDIT COURSES

These classes are available to students at KHS through Carl Sandburg College and require placement through the ACCUPLACER test as well as paid tuition to Carl Sandburg College. Dual credit classes to be awarded for high school credit other than the English and math courses offered by KHS must be approved by KHS administration prior to the start of each semester. Schedule these courses with the school counselor.

ACADEMIC HALL OF FAME

To be inducted into the KHS Academic Hall of Fame, a student must meet the minimum following criteria at the completion of the 8th semester: GPA – 3.9, SAT Score – 1310 (Grad Year 2020-beyond); and have 18 Carnegie credits in college preparatory classes. KHS classes that qualify as Carnegie credits in preparatory classes are:

A. Minimum Four credits of English
   - English I
   - English II
   - English III
   - English IV
   - English I H
   - English II H
   - English III H
   - AP Literature & Composition
   - English Composition 101 (1/2)
   - English Composition 102 (1/2)

B. ** Minimum Three credits of Mathematics
   - Algebra I
   - Geometry
   - Algebra II
   - Pre-Calculus
   - Calculus
   - AP Calculus

C. ** Minimum Three credits of Laboratory Science
   - Biology
   - Chemistry I
   - Physics I
   - Anatomy/Physiology
   - Earth Science

D. Minimum of Three credits of Social Studies
   - U.S. History (Regular & AP)
   - Government/Civics
   - Psychology I & II
   - World History I & I
   - Cultures I & II
   - Military History
   - Illinois History
   - Social Concerns
   - Genocide/Holocaust

E. Minimum Two credits of foreign language
   - Spanish I
   - Spanish II
   - Spanish III
   - Spanish IV

F. Other Carnegie Credit Courses
   - Accounting I
   - Accounting II
   - Computer Science-PYTHON
   - AP Computer Science Principles
   - Introduction to Engineering Design
   - Principles of Engineering

** Note: Students must have a minimum of seven (7) credits between section B. Mathematics and section C. Laboratory Science.

Any student wishing to achieve this extremely high academic honor must keep in close touch with the school counselor relative to course selections made over the eight semesters. The courses selected by students during their high school career are an integral component in achieving this goal. Visit your school counselor frequently.
COLLEGE ENTRANCE REQUIREMENTS

Since 1993, the Illinois Board of Higher Education have required all state-supported Illinois universities and colleges to only admit students who have completed specific high school courses. While these mandates continue to change slightly each year due to new legislation, most colleges have already instituted these requirements and will keep them whether or not the Board of Higher Education or state legislature makes future changes.

The minimum course requirements for students entering state colleges or universities in 1993 and beyond are:

a. Four years of English emphasizing written and oral communications and literature.
   b. Three years of Social Studies emphasizing history and government.
   c. Three years of Mathematics including Algebra I, Geometry, Algebra II, and Trigonometry recommended.
   d. Three years of laboratory sciences; biology and chemistry recommended.
   e. Two years in electives in the same foreign language, music or art. Schools also have the authority to accept vocational education courses in place of language, music or art.

Students planning to attend college after graduation must do more than simply meet the course requirements listed above. Most colleges will not accept students who do not rank in the upper one-half of their high school class. The ACT test is part of the PSAE test given to juniors in April. Additional opportunities to take the ACT are available the following June, September or October of the senior year.

Many colleges have their own specific requirements that may vary by major. At the University of Illinois, for example, students must complete two years (preferably three years) of the same foreign language to be accepted in most programs. To be accepted in Carl Sandburg College's nursing program, students must have earned a "C" or better in biology, algebra, and chemistry along with satisfying other requirements. Students are encouraged to contact the Counselor's office for information specific to their post-high school plans.

EARLY GRADUATION OPTION

The Board of Education authorizes graduation for students who meet the following criteria:
1. Have satisfied course requirements for graduation,
2. Have demonstrated how an alternative to continuing their high school education would be more profitable to them,
3. Have parental/legal guardian permission for early graduation,
4. Have submitted this application no later than the last week of September prior to graduation.

Requests for early graduation are granted only if approved by the Counselor, Principal and School Board.

As four full years English are required by both the district and state; students interested in early graduation must qualify and enroll in the Dual Credit English Composition 101 offered by Carl Sandburg College or an English IV equivalent.

A student who has received prior approval for mid-year graduation and who has completed all graduation requirements by the end of his/her seventh semester may participate in graduation ceremonies offered in May.

However, the student is NOT allowed to participate in:
The Knoxville Academic Hall of Fame
Top 10 Senior List
Second Semester Sports & Extracurricular Activities
Prom (unless invited as a guest)

Any student who has received approval for mid-year graduation but fails to meet all graduation requirements by the end of his/her seventh semester, or who fails to meet any other requirement set forth in his/her individual early graduation agreement, must re-enroll for a full semester program of courses.
ENGLISH

ENGLISH I BASIC 101 Grade 9 Year
This course is designed for the student with below average reading and writing skills. Teacher and counselor approval is required for enrollment in the English I Basic course.

ENGLISH II BASIC 102 Grade 10 Year
This course is designed for the student with below average reading and writing skills. Teacher and counselor approval is required for enrollment in the English II Basic course. (Prerequisite: One year of English)

ENGLISH III BASIC 103 Grade 11 Year
This course is designed for the student with below average reading and writing skills. Teacher and counselor approval is required for enrollment in the English III Basic course. (Prerequisite: Two years of English)

ENGLISH IV BASIC 104 Grade 12 Year
This course is designed for the student with below average reading and writing skills. Students will study contemporary literature and will receive further instruction to help improve their practical reading and writing skills. Teacher and counselor approval is required for enrollment in the English IV Basic course. (Prerequisite: Three years of English)

ENGLISH I 105 Grade 9 Year
In this fundamental course, work will be concentrated on short stories, novels, drama, poetry, speech, composition, and usage. The communication of ideas, thoughts, and feelings are the underlying connective threads of this course. The students will be expected to develop the skills of the instigator and the receiver in communication. Various reading and writing projects are required, including book reports and a research project.

ENGLISH II 106 Grade 10 Year
English II continues the survey type of course that started in English I. Oral and written skills will be used to respond to and interpret different forms of communication and used to convey the students’ own ideas. (Prerequisite: One year of English)

ENGLISH III 107 Grade 11 Year
This course is a comprehensive study of the English language, its structure, its composition, and its use in interpreting, reflecting, and understanding the culture of America. This course will consist of a review of English grammar, a refresher in reading for comprehension, and will emphasize American literature. (Prerequisite: Two years of English)

ENGLISH IV 108 Grade 12 Year
This course is designed for the average and above average reader and writer. Reading and interpreting literature to determine the main ideas and concepts are central in this course, with a main emphasis on British Literature. Various kinds of writing concerned with literature are emphasized throughout the year. Higher education writing skills are also emphasized. A research paper is a course requirement during the first semester. (Prerequisite: Three years of English)

BUSINESS ENGLISH IV 108 A Grade 12 Year
This course is designed to focus on reading, writing and interpersonal skills for students who are going to enter the workforce immediately after high school. Students will be placed into this by ASVAB test scores and teacher or counselor recommendations. Writing will focus on business letter writing, specific
career research and writing, and editing professional documents. Reading will focus on career choice, interpersonal skill development, and real life reading (insurance forms, contracts, etc.). The class will also work on interpersonal and etiquette skills required in the work force.

**ENGLISH I HONORS**  109  Grade 9  Year
This course is designed for the accelerated reader and writer. English I Honors offers an enriched look at the freshman curriculum. Critical thinking and analyzing skills are emphasized and required in written assignments and projects. Independent reading and research projects are required along with grammar and vocabulary work. A “B” average must be maintained along with teacher and counselor approval in order to enter this class.

**ENGLISH II HONORS**  110  Grade 10  Year
This course is designed for the accelerated reader and writer. English II Honors provides a more in-depth study of short stories, poetry, drama, and novels. Critical thinking and analyzing skills are emphasized in written assignments. A research paper and portfolio are both required. A “B” average must be maintained along with teacher and counselor approval in order to enter this class. (Prerequisite: One year of English)

**ENGLISH III HONORS**  111  Grade 11  Year
This course is designed for the accelerated reader and writer. A survey of American literature including poetry, essays, short stories, and novels are central to this course. College Preparatory writing skills are stressed throughout the course. An intensive review of English grammar is stressed in preparation for college entrance tests. A research paper and portfolio are both required. A “B” average must be maintained along with teacher and counselor approval in order to enter this class. (Prerequisite: Two years of English)

**AP ENGLISH Literature & Composition**  112 A  Grade 12  Year
The Advanced Placement English Literature and Composition course focuses on the careful reading and written analysis of fiction. Through the close reading of selected texts, one can deepen understanding of the ways writers use language to create meaning. This course focuses on a variety of genres, time periods, and cultures. It is expected to take the AP exam course in May. If a score of 3 or higher is achieved on the A.P. test, college credit is likely to be awarded at most colleges nationwide. If you have any questions about this course, or any of the senior English courses, then please talk with Mrs. Hise.

**SPEECH AND COMMUNICATION**  113  Grades 11 & 12  Semester
This course is a study of communication and public speaking. Communication and interpersonal skills are covered through class discussions and group activities. Public speaking techniques, preparation and delivery of the major types of speeches, group communication, and interpersonal communication form the basis of this semester course, which is open to juniors and seniors. Students learn the basic procedures of research, organization, and the presentation of speeches.

**CREATIVE WRITING & THE ARTISTIC WORLD**  114  Grades 10-12  Semester
Creative Writing and the Artistic World is designed for students to create original forms of descriptive writing, poetry, drama and fiction. Examples of each genre will be examined as students consider their own approach to the model. The class will consider the creative impulse throughout history in its various forms for inspiration and philosophical insight. Students will have the opportunity to submit their work to publications. Students will journal and create an end of semester portfolio of polished writing and illustrations.

**FILM AS LITERATURE**  Grades 10-12  Semester
This is a semester course for grades 10, 11, or 12. Television, movies, and other cinematic creations are the physical adaptations of stories, songs, and poems brought to life. Each film attempts to visually
capture the emotions, descriptions, and details of the human experiences all around us. Within this course students will be guided through the study and analysis of various elements of literature and applying those ideas to the story behind each film. This class will involve watching both clips and entire productions, reading and researching for discovery about true stories and also connecting themes and ideas that transcend from one film to another. This is a student led course, which means it continues to change from year to year depending upon each class's interests.

DRAMA AND THEATER

Grades 10-12 Semester

This is a semester course for grades 10, 11, and 12. Within this course, students will discover the layers to producing a play or even a musical by watching, reading about, researching or when available, even attending stage productions. Students will study various types of plays and musicals, as well as learn about acting form, how to create set designs, costume and even have some fun learning some hair and makeup techniques and stage fighting. This course is an English elective, but will be more hands on in nature, where students can take things from the page to the stage.

DUAL CREDIT ENGLISH CLASSES

These classes are available to students at KHS through Carl Sandburg College and require placement through the ACCUPLACER test as well as paid tuition to Carl Sandburg College.

ENGLISH COMPOSITION 101 114 Grade 12 Semester

This course is the first in a sequence of two freshman composition and rhetoric courses. It is designed for individuals planning to pursue a bachelor’s degree as well as those who wish to develop proficiency in writing. Emphasis is on critical reading, organization, logical thought, paragraphing, development, sentence structure, grammar and punctuation. Also studied will be argumentation and inductive/deductive reasoning. (Prerequisite: Three years of English)

ENGLISH COMPOSITION 102 115 Grade 12 Semester

This course is the second in a sequence of two freshman composition and rhetoric courses. Emphasis is on reading and writing about various types of prose, especially short fiction and the novel. A research paper that demonstrates analysis of the novel is the primary writing activity. (Prerequisite: Freshman Comp 101 with a C or better)

MATH COURSES

APPLIED ALGEBRA I 204A Grades 9-10 Year

Applied Algebra covers all topics in Algebra I necessary to prepare the student for Geometry and Algebra II. This course integrates geometry, statistics, and probability. Several dimensions of understanding are emphasized. Skill in carrying out various algorithms, developing and using mathematical properties and relationships and applying mathematics in realistic situations is emphasized. Scientific calculator is required. (Prerequisite: Placement by teacher/counselor.)

ALGEBRA I 204 Grades 9-12 Year

Algebra I is the typical Freshman course. It covers all topics in Algebra I necessary to prepare the student for Geometry and Algebra II. This course integrates geometry, statistics, and probability. Several dimensions of understanding are emphasized. Skill in carrying out various algorithms, developing and using mathematical properties and relationships and applying mathematics in realistic situations is emphasized. Topics covered include: linear equations and inequalities, linear functions, system of linear functions, properties of exponents, and quadratic functions. Scientific calculator is required. Graphic calculator recommended for extension activities. (Prerequisite: 8th grade math)
APPLIED GEOMETRY 205A Grades 10-11 Year
Students will explore basic geometric concepts including, but not limited to, transformations, coordinate geometry, congruence, similarity, right triangle trigonometry, circles and polygons, surface area, and volume. Focus will be on using Algebra skills to master Geometric concepts. A variety of instructional methods will be used to introduce concepts. A scientific calculator is required. (Prerequisite: Placement by teacher/counselor.)

GEOMETRY 205 Grades 9-12 Year
Geometry is the typical sophomore course. It covers all Geometry topics necessary to prepare the student for the SAT and future math courses. Students will use Algebra to justify Geometric concepts and learn to reason deductively. Students will use construction tools and dynamic geometry software. A scientific calculator is required. (Prerequisite: Successful completion of Algebra I)

HONORS GEOMETRY 205B Grades 9-12 Year
This course is intended for advanced math students. All geometric concepts will be studied with emphasis on discussion and application of postulates and theorems. Construction tools and dynamic geometry software will be used to justify reasoning. Students will be placed by teacher recommendation and student interest. (Prerequisite: Placement by teacher/counselor)

APPLIED ALGEBRA II 206A Grades 11-12 Year
Intended for students who would like a review of Algebra and Geometry. Focus is on building a strong foundation in the fundamental math concepts. A scientific calculator is required. (Prerequisite: Algebra I, Geometry, and teacher recommendation)

ALGEBRA II 206 Grades 10-12 Year
This course is the average junior course. Algebra II covers all basic Algebra topics necessary to prepare the student for the SAT and future math courses. This course is an extension of Algebra 1 and Geometry. The course studies lines, logarithms, quadratic equations, sequences, systems, statistics, matrices, and trigonometry. The properties of numbers, graphs, expressions, equations, inequalities, functions, and geometry are integrated throughout the course. Many of the extensions are done with the aid of a scientific calculator with capability to calculate statistics and to automatically graph functions. A scientific calculator is required. (Prerequisite: Geometry or Algebra I & taking Geometry)

HONORS ALGEBRA II 206B Grades 9-11 Year
Sophomores and juniors who excelled in both Algebra 1 and Geometry. This course is intended for advanced math students. Students should be placed by teacher recommendation and student interest. Course will move at a pace so that all topics in Algebra 2 are discussed. A scientific calculator is required. (Placement by teacher/counselor)

PRE-CALCULUS 207 Grades 11-12 Year
Intended for juniors and seniors with a desire to take a 4th year of college-preparatory math. This college preparatory course gives strong attention to ideas of functions and trigonometry. This course will review and extend ideas about linear, quadratic, exponential, logarithmic, trigonometric, and circular functions. Many of the extensions are done with the aid of a graphing calculator with the capability to calculate statistics and automatically graph functions. (Prerequisite: Algebra 2)

AP CALCULUS 208 Grade: 12 Year
This is an Advanced Placement Calculus course. The course will be comparable to a course taught at a college level. The class will prepare you for the AP exam at the end of the year. The exam will be optional. Emphasis is placed on a review of all high school math and its application to the discipline of calculus. Definitions, fundamental operations, and their uses are stressed. The understanding of basic
integration and differentiation are major areas of concentration. **Online AP Calculus will not be offered.** (Prerequisite: PreCalculus)

**NUMBERS & STATISTICS**

This course will be a college prep course. The course is for seniors who have completed three years of math successfully. If you receive a C or above in the course you will be admitted to Math 109, Math 110, SSC 120, at Carl Sandburg College without taking the placement test. The following topics will be covered; personal finance, using statistics in everyday life, using mathematic ideas in everyday living, making decisions using math, and business math. Each unit will contain a project. (Prerequisite: 3 years of math)

**SCIENCE COURSES**

**General Science 300 Grade 9 Year**

The specific content of General Science courses varies, but they draw upon the principles of several scientific specialties – earth science, physical science, biology, chemistry, and physics – and organize the material around thematic units. Common themes covered include systems, models, energy, patterns, change, and constancy. This course uses appropriate aspects from each specialty to investigate applications of the theme. (Prerequisite: Placement will be determined by teacher/counselor recommendation).

**Biology 304 Grades 9-10 Year**

Biology courses are designed to provide information regarding the fundamental concepts of life and life processes. Topics in the course include cell structure and function, plant and animal physiology, genetics, and taxonomy. (Prerequisite: Placement will be determined by teacher/counselor recommendation).

**Honors Biology 304B Grade 9 Year**

Honors Biology courses are designed to provide more in-depth study of the fundamental concepts of life and life processes. Students will explore cell structure, cell function, plant and animal physiology, taxonomy, and genetics. Students will explore the concepts through a variety of laboratory experiments and projects. (Prerequisite: Placement will be determined by teacher/counselor recommendation).

**Applied Chemistry 305A Grades 10-11 Year**

Applied Chemistry courses provide students with an understanding of chemical principles and application to everyday life. Students will explore chemistry through a variety of formats including projects and laboratory experiments. Topics include, but not limited to: measurement, atomic structure, the periodic table, electron configuration, bonding, reactions, stoichiometry, gas laws, acids and bases, and solutions. (Prerequisites: Completion of Biology and teacher/counselor recommendation).

**Chemistry 305 Grades 10-11 Year**

Chemistry courses provide students with an understanding of chemical principles and skills that are needed for college. Students will explore the concepts through a variety of formats. Laboratory experiments are a reoccurring theme throughout the year that will help students to analyze and draw conclusion both qualitative and quantitative about the concepts. Topics include, but are not limited to: measurement, atomic structure, electron configuration, bonding, gas laws, solutions, stoichiometry, reactions, kinetics, equilibrium, acids and bases, and nuclear chemistry. (Prerequisites: Completion of Biology, satisfactory completion of Algebra I, and teacher/counselor recommendation).
Honors Chemistry courses provide students with an understanding of chemical principles and skills that are needed for college. Students will explore the concepts through a variety of formats. Laboratory experiments are a necessity in the learning process to improve students' ability to analyze and draw conclusions both qualitative and quantitative about the concepts. Students will also learn how to develop an experiment and perform it independently. Topics include, but are not limited to: measurement, atomic structure, electron configuration, bonding, gas laws, solutions, stoichiometry, reactions, kinetics, equilibrium, acids and bases, organic chemistry, biochemistry, and nuclear chemistry. (Prerequisites: Completion of Biology with at least a B, satisfactory completion of Algebra I, and teacher/counselor approval)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grades</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physics</strong></td>
<td>306</td>
<td>11-12</td>
<td>Year</td>
</tr>
<tr>
<td>Physics courses involve the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of Physics includes examination of sound, light, and magnetic and electric phenomena. (Prerequisites: Completion of Applied Chemistry or Chemistry)</td>
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<tr>
<td><strong>Earth Science</strong></td>
<td>303</td>
<td>11-12</td>
<td>Year</td>
</tr>
<tr>
<td>Earth Science courses are designed around the natural curiosity of the students in regard to the real world. Topics in the course include geological history, landforms, oceans, atmosphere, rocks and minerals, plate tectonics, and the solar system.</td>
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<tr>
<td><strong>Anatomy/Physiology</strong></td>
<td>309</td>
<td>11-12</td>
<td>Year</td>
</tr>
<tr>
<td>Anatomy and Physiology courses present the human body and biological systems in more detail. In order to understand the structure of the human body and its functions, students learn anatomical terminology, study cells and tissues, explore functional systems (skeletal, muscular, circulatory, respiratory, digestive, reproductive, nervous, and so on), and may dissect mammals. (Prerequisites: Completion of Applied Chemistry or Chemistry)</td>
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<tr>
<td><strong>AG II: PLANT &amp; ANIMAL SCIENCE (Science Credit)</strong></td>
<td>715</td>
<td>Grades: 10-12</td>
<td>Year</td>
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<td>First semester will focus on agronomy. Students will gain knowledge and skills necessary for future employment in agronomy or related industries. Major units include scientific method, cellular biology, genetics, biotechnology, soil classifications, soil erosion and management, soil fertility, plant classification, plant anatomy and physiology, plant propagation, plant growth, IPM, gain, oil, forage, sugar, and fiber crop production methods, and grain quality, storage and transportation. Applied science and math skills and concepts will be stressed throughout the course as they relate to each area. Participation in FFA student organization and activities and Supervised Agricultural Experience projects as an integral course component for leadership development, career exploration, and reinforcement of academic concepts. Second semester will focus on animal science. Students will develop an understanding of livestock (beef, dairy, sheep, goats, and swine), poultry, and large (equine) animal industry. Topics of instruction include scientific investigations, genetics, animal anatomy and physiology, animal nutrition and reproduction, animal health and meat science. Participation in FFA student organization and activities and Supervised Agricultural Experience projects as an integral course component for leadership development, career exploration, and reinforcement of academic concepts. (Prerequisite: Ag I or an A or B in Biology)</td>
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<td><strong>VETERINARY TECHNOLOGY (Science Credit + Dual Credit)</strong></td>
<td>716</td>
<td>Grades: 11-12</td>
<td>Year</td>
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practices, and animal services to humans. Topics to be discussed include: veterinary terminology, anatomy and physiology, pathology, genetics, handling and restraint, first aid, and physical examinations along with common surgical skills. Career exploration will focus on veterinarian, veterinary lab technicians, office lab assistant, small animal production, research lab assistant, and animal nutrition lab technician. Participation in FFA student organization and activities and Supervised Agricultural Experience projects as an integral course component for leadership development, career exploration, and reinforcement of academic concepts. (Prerequisite: Ag I and II, or 2 years of Science + teacher approval)

SOCIAL STUDIES

American Government & Civics  408  Grade 9  Year
This course will focus on the government of the United States and the civil rights and responsibilities of U.S. citizens. Special emphasis will be placed on the U.S. Constitution, the three branches of government, current and controversial issues in the news, and educating students to be productive, engaged members of society. Students will learn through a variety of means, including readings, in-class activities, videos, simulations and class discussions. (Required)

HISTORY IN READING  415  Grades 9-12  1st Semester
This course is an analysis and comprehension course focusing on studying history through primary sources, biographies and other works of nonfiction. Content for this course is driven by student choice.

GENOCIDE AND THE HOLOCAUST  417  Grades 11-12  2nd Semester
This semester-long course is an examination of hate and prejudice, the history of anti-Semitism and the Holocaust, and genocide studied through primary and secondary resources, literature, and film. Students will examine the definition of genocide, the Holocaust and genocides in Armenia, Asia, Bosnia, Rwanda and Darfur.

WORLD HISTORY I  402  Grades 9-12  Semester
A study of world history beginning at the fall of Rome, topics include: Byzantine Empire, Middle Ages, Renaissance, Reformation, and the Scientific Revolution.

WORLD HISTORY II  403  Grades 9-12  Semester
A study of world history beginning with the World at 1500, topics include: Exploration, Absolute Monarchs, Revolutions, Imperialism and the Industrial Revolution.

CULTURES I  404  Grades 9-12  Semester
A study of cultures in the world with a special focus on Europe, Russia, and Latin America.

CULTURES II  405  Grades 9-12  Semester
A study of cultures in the world with a special focus on Africa, Asia, the Middle East, and other remote areas in the world.

ILLINOIS HISTORY  416  Grades 9-12  Semester
This course is a study of our state's history. Subjects will include Native Americans, the pioneer days, famous Illinoisans, history of Knoxville, Galesburg and East Galesburg, and modern leaders and events of the state.

SOCIAL CONCERNS 409 Grades 9-12 Semester
A study of current events with a focus on world and local issues that affect economics, government, and conflict. This course uses newspapers, online media, newcasts, and political cartoons to support class discussion.

U.S. HISTORY 401 Grade 11 Year
This is the study of the main political, social, economic, and cultural factors of the United States from colonialism to the present. The course is chronologically arranged. (Required)

AP U.S. HISTORY 401AP Grades 11 & 12 Year
AP U.S. History is designed to be the equivalent of a two-semester introductory college U.S. history course. In AP U.S. History students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills, practices, and methods employed by historians. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places. It is expected to take the AP exam in May. If a score of 3 or higher is achieved, it is likely to be granted college credit. Prerequisites: B or higher in Government and in English

MILITARY HISTORY 414 Grades 11-12 Semester/Year
This course will delve into both a tragic and fascinating recurring theme in the human story: armed conflict. From a primarily western civilization perspective, students will learn to think critically about war as it has occurred across time and continents. They will analyze how cultural, political, and social institutions have been causal agents of war as well as how they have been shaped by war.

Psychology I 411 Grade 11-12 Semester
This course provides an introduction to the study of psychology. Topics covered include a brief history of psychology, including major psychological approaches, understanding the human brain, why optical illusions fool us, discussing states of consciousness and why we dream, how your environment and observing others affects your behavior, determining intelligence through testing and more. Well-known psychological experiments, videos, discussions, projects and in-class activities will help students understand real world applications of the material.

Psychology II 412 Grade 11-12 Semester
This course is a continuation of the study of psychology. Completion of Psychology I is not a prerequisite for Psychology II. Topics covered include physical and mental development from birth to death, how our society, peers, and authority figures can affect behaviors and thought processes, understanding psychological disorders and treatments, the psychological differences between men and women, and more. Well-known psychological experiments, videos, discussions, projects and in-class activities will help students understand real world applications of the material.
SPANISH

SPANISH I
501
Grades 9-12
Year
Spanish I will provide a foundation for students, who want to understand spoken Spanish as well as speak, read and write it. This class is taught using the TPRS® method. TPRS® stands for Teaching Proficiency through Reading and Storytelling. Our class activities are designed to provide students with many opportunities to be involved in the Spanish language. Various aspects of Hispanic life and culture will also be covered, including songs, videos, and novels. (Prerequisite: Enrollment in classes above Basic English.)

SPANISH II
502
Grade 10-12
Year
Spanish II is a review and continuation of Spanish I. Students will learn to express what they did in the past and what they will do in the future. They will continue to learn about the Hispanic lifestyle and culture through novels, music, videos, storytelling and podcasts. (Prerequisite: Spanish I.)

SPANISH III
503
Grades 11-12
Year
Spanish III offers the opportunity to use previously learned knowledge while acquiring more vocabulary and grammar. Telling stories, reading novels & short stories, listening to music, watching videos in Spanish, and discussing art are a core part of the curriculum. (Prerequisite: Spanish II.)

SPANISH IV
504
Grade 12
Year
In this advanced course, students will review grammar and read more advanced stories and novels in the first semester. The second semester will focus on movies and class discussion, which relate to history and current events in the Spanish-speaking world. (Prerequisite: Spanish III.)

ART COURSES

VISUAL ART
The KHS Visual Arts program develops a student's capacity for expression through a correlation between the visual arts and an awareness of the student’s broader environment. This program develops a student’s technical and conceptual abilities through a curriculum that fosters connections between traditional and contemporary art and art media. Creative practices, including flexible thinking, creative problem-solving, inquisitiveness, and perseverance through a broad range of experiences build the foundation for deeper understanding of the arts and innovation. Regular individual and group critiques develop and refine the student artist's personal vision. Through an understanding of a wide-range of applications within the visual arts, students gain confidence and an understanding of empathy that prepares them to become artistic citizens and leaders in our constantly changing society.

All art courses are a semester long, some being offered on a rotating basis. Students are required to first take each of the two core visual arts courses, Art Foundations 1 and Art Foundations 2. Art Foundations 1 and 2 are designed for students with little to no art experience and are the prerequisites for all Art Techniques Courses which include:
Drawing
Painting
Ceramics
Sculpture

These four courses are not sequential, any past Art Foundations I & II student may sign up for any of these courses any semester.
Advanced Studio Art is reserved for junior and seniors who have passed Art I and Art II prior to the change in KHS Art Course offerings and to 2018 - 2019 students and beyond, who have passed Art Foundations and at least two Design classes.

**ART FOUNDATIONS 1 & ART FOUNDATIONS 2**

Art Foundations 1 and Art Foundations 2 are introductory art courses that provide a foundation for all other KHS art courses. Emphasis is placed on understanding the Elements of Art and Principles of Design as a basis for composition. Each element is a unit with projects/assignments to practice and to apply the concepts of the Art Theory. In these courses, students will explore a variety of artists, art processes and materials such as drawing, painting, printmaking, two & three-dimensional design, and graphic art. Student artwork will reflect aesthetics & cultural and historical contexts. Willingness to get involved in the creative process is more important than the student’s talent or previous experience.

**ART FOUNDATIONS 1  601  Open to grades 9-12  Semester**

This course is a beginning art course that introduces students to the Elements and Principles of Art. The Art Elements of Line, Shape, Space and Value are explored through projects that include drawing, collage, printmaking, and sculpture.

**ART FOUNDATIONS 2  601 A  Open to grades 9-12  Semester**

This course is a beginning art course that introduces students to the Elements and Principles of Art. The Art Elements of Color, Texture and Form are explored through projects that include drawing, painting, metal and fiber arts, ceramics and sculpture.

**DRAWING  602  Grades: 10-12  Semester**

Drawing investigates the foundations of drawing and encourages proficiency in a wide range of approaches to various drawing media. Students will strengthen basic drawing abilities and knowledge through practice and progressive exploration. Study of perspective, visual measurement, portraiture, mark and value making, and a wide range of materials will occur. In addition to learning to draw, the elements and principles of art and design will be reinforced and conceptual development will be promoted. *(Prerequisite: Art Foundations 1 and Art Foundations 2)*

**PAINTING  602B  Grades 10-12  Semester**

This course emphasizes the technical and logistical aspects of painting, in order to give each student the tools to be able to explore their personal thematic approach. The beginning of the semester emphasizes color theory and basic technical aspects of painting (use of medium, emphasis on palette work, mark making). The remainder of the semester emphasizes instruction in more sophisticated methods of development of the painting, preparatory drawings completed in a larger format that help expand how to use subject matter from various sources, and presentations on both historical and contemporary artists that inform and empower each students towards recognizing the myriad ways that painting can be used to communicate an idea or philosophy. *(Prerequisite: Art Foundations 1 and Art Foundations 2)*

**CERAMICS  603  Grades 10-12  Semester**

This course is an introduction to ceramics that includes hand-building, tile-making, and wheel-throwing. Students learn to create ceramic objects and are introduced to a variety of surface treatments such as glazing, under-glazing, sgraffito, slip-trailing, sponging, and decal application. Students will be exposed to weekly demonstrations and lectures on both historical and contemporary ceramic works. *(Prerequisite: Art Foundations 1 and Art Foundations 2)*
SCULPTURE 603B Grades 10-12 Semester
Sculpture students will explore visual and physical concepts and processes such as form, volume, plane, line, space, texture, surface, etc. Students will gain experience with a diverse selection of sculptural processes including addition (construction or fabrication), subtraction (carving), manipulation (modeling) and substitution (casting). Students will also be exposed to innovative methods such as working with found objects, kinetics, and installation. Contemporary and traditional issues related to sculpture will be explored.

Advanced Studio Art 604 Open to juniors and seniors that have passed Art Foundations and at least 2 Design Courses Semester/Year And Teacher approval
This course is reserved for students who are truly interested in developing mastery in a variety of media, formal composition, as well as the pictorial expression of ideation. Students should have a deep interest in creating substantial pieces, students will be required to build a portfolio of sophisticated artwork.

MUSIC COURSES

Band and Orchestra students are required to be present for performances and rehearsals scheduled outside the normal school day. A schedule of events will be distributed early in the year to all band students.

BAND 606 Grades 9-12 Year
The emphasis in instrumental music at KHS is not only on top performance, but also on a full music education. Included in the course is: Marching Band, Concert Band, Pep Band, and Jazz Band. Band meets daily during the school day. The marching band begins the year with a three day camp before all athletic practices begin in August. Performances will include: school concerts, area parades, home football games, IHSA events, KHS graduation, and other community events. Students will learn and reinforce intermediate and advanced wind and percussion techniques, and perform quality literature. Although a high degree of musical proficiency is developed, more important are the non-musical skills that come from participation in band. These include self-confidence, a respect for the talents of others, teamwork, pride in the group’s achievement (esprit de corps), and a willingness to accept responsibility. Band members are able to participate in all extracurricular athletics and organizations.

ORCHESTRA 607 Grades 9-12 Year
The Knoxville High School Orchestra is an organization that emphasizes all aspects of good musicianship through performance. The orchestra performs several styles of music including classical, jazz, rock, country, and bluegrass. The orchestra performs at the Quad Cities Festival of Trees in November, as well as the Knoxville High School Christmas Concert, March Concert, and the Fine Arts Fair in May. Students also perform at the IHSA Solo and Ensemble Contest as a string choir, as well as performing solos or duets if interested. Orchestra members are able to participate in all extracurricular athletics and organizations.

CHORUS 608 Grades: 9-12 Year
Choir is open to students who are interested in performing with others and learning about the different elements of music. No audition is required to be in the Choir. There will be a concert held in the Fall and Spring semester to perform a wide selection of music for friends and family. Music ranges from the 1700s to today's hits! There will also be opportunities to learn about music technology, sight reading, and how to read music more efficiently. Just a fair warning that there's a chance you will make lifelong friends as well!
VOCATIONAL PROGRAMS

TECHNOLOGY COURSES

COMPUTER APPLICATIONS  700A  Grades 9-12  Semester
This course will introduce students to the most common productivity software applications found in employment and education. Emphasis will be placed on word processing, spreadsheets, database management, and presentation software through the use of Microsoft Office® and Google Apps.

PHOTO EDITING  701B  Grades 9-12  Semester
This course will introduce students to the skills and concepts of basic digital editing. Emphasis will be placed on the basic tools and techniques of image editing through the use of Adobe Photoshop®. Camera and image editing projects will provide students with opportunities for creative expression and technical growth resulting in a project-based portfolio showcasing more than 25 projects—created through effective use of the principles of design and the fundamental categories of symbolic, observational and expressive art.

COMPUTER SCIENCE-PYTHON  Grades 10-12  Year
Introduction to Computer Science is an introductory-level course for students brand new to programming and computer science. In this course, you will learn problem-solving strategies, software design, and the foundations of computer science. Not only will this course prepare you for continuing your studies in computer science (for example, by taking AP Computer Science A and AP Computer Science Principles), but it will also teach you how to think like a scientist and solve real-world problems, skills that are important to every 21st-century citizen.
There are no prerequisites for this course, although you should have basic familiarity with how to operate a computer and use applications. It's also recommended that you have familiarity with basic algebra principles before starting this course.

ADVANCED PLACEMENT (AP) COMPUTER SCIENCE PRINCIPLES  Grades 11-12  Year
AP Computer Science Principles (AP CSP) is a full-year, rigorous course that introduces students to the foundational concepts of computer science and explores the impact computing and technology have on our society. The course covers a broad range of foundational topics including: programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. This is an AMAZON Future Engineering class. Prerequisites: Algebra I & Computer Science-Python

BUSINESS COURSES

ACCOUNTING I  704  Grades 10-12  Semester 1
This course will introduce students to accounting skills and concepts for businesses organized as a proprietorship, and partnership. Students will have an opportunity to complete the accounting cycle process through a sequence of activities beginning with the occurrence of a transaction and ending with the post-closing trial balance. Students will use spreadsheet software and formula functions to facilitate the processing of accounting data and experience the use of computers in accounting.

ACCOUNTING II  705  Grades 10-12  Semester 2
This course supports skills learned in Accounting I and introduces the accounting skills and concepts for businesses organized as a corporation. Students will continue to exercise their use of the accounting
cycle process and use spreadsheet software and formula functions to facilitate the processing of accounting data and experience the use of computers in accounting. (Prerequisite: Accounting I)

INTRO TO BUSINESS  706A  Grades 10-12  Semester 1
This course presents the everyday business activities that the student will experience in his or her own personal life. It is a general orientation course in the business field, including such topics for exploration as business careers, money management, investing, banking services, consumerism, and types of insurance. The course contributes to a better understanding of American business and where we as consumers and business persons will fit into this social and economic environment.

MARKETING & MANAGEMENT  706B  Grades 10-12  Semester 2
This class prepares individuals to undertake and manage the process of developing consumer audiences and moving products from producers to consumers. Includes instruction in buyer behavior and dynamics, principle of marketing research, demand analysis, cost-volume and profit relationships, pricing theory, marketing campaigns and strategic planning, market segments, advertising methods, sales operations and management, consumer relations, retailing, and applications to specific products and markets.

FAMILY AND CONSUMER SCIENCES

F.C.S ORIENTATION  707A/707B  Grades 9-12  Semester
This course provides students opportunities to explore and develop knowledge and skills in understanding themselves and their roles in today's society. The course content should present basic subject matter in the following areas: clothing and textiles, resource management, foods and nutrition, housing, furnishing and equipment, human development, interpersonal and family relationships, and introduction to the world of work. As knowledge and skills are taught in each of these units, students will be introduced to related career opportunities. F.C.S. Orientation provides many lab and hands on opportunities to students.

FOODS AND NUTRITION I  709  Grades 11-12  Year
This course includes basic classroom and laboratory experiences needed to develop knowledge and understanding of basic food principles and applied nutrition for people of all ages. Information related to careers in food and nutrition is incorporated throughout the course. Laboratory sessions are devoted to preparation of foods with specific characteristics. This course provides an introduction to commercial food service, preparation, and management.

CULINARY OCCUPATIONS I  729  Grades 11-12  Year
This year long course will introduce the concepts of food preparation at the institutional level for practical application in the foodservice industry. Salad preparations, creative menu planning, simple desserts, and sanitation control will be implemented. This is an entrepreneur-style course where products will be sold to consumers. The students will learn budgeting, billing and work ethics through this course.(Prerequisite: FCS Foods and/or Foods & Nutrition)

CHILD DEVELOPMENT & PARENTING  708  Grades 11-12 Semester 1
CARE & LEARNING  713  Grades 11-12  Semester 2
This year long course will focus on how children grow and develop physically, emotionally, socially, and intellectually from toddlerhood through school age. Students will have the opportunity to have hands on experiences by helping with MWES students one day a week during the second quarter and four days a week second semester. This class is an excellent opportunity to see if working with children is what you would like to do in the future.

**SEWING II** 710 Grades 9-12 Semester

Offered during the second semester only, this course provides students with opportunities to expand on the skills learned during Sewing I. Students will learn to select patterns and fabrics to construct clothing items per their choice and ability level. The class will include a field trip to Joann Fabrics in Galesburg to help assist students in getting starting on their first sewing project. Prerequisite: FCS Sewing I

**AGRICULTURE COURSES**

**AG I: INTRODUCTION TO AG INDUSTRY** 714 Grades 9-12 Year

Ag I is a beginning course open to all students. Some of the areas covered in this course are the aims and purpose of the FFA Organization, along with developing leadership skills, proper etiquette, and the ability to start and establish a supervised agricultural experience program and participate in the Agriculture Science activities of the FFA organization. Parliamentary Procedure is also learned and practiced as it relates to running a meeting effectively and demonstrating knowledge on how to participate in a meeting using parliamentary procedure. Also covered are the basic areas of plant and animal sciences such as identifying various agriculture commodities and evaluating crops and livestock common to this area. Major emphasis is focused on judging beef, dairy, sheep, and swine. Learning specific terms associated with the agriculture industry and discussing proper care and handling of animals will be covered. This class is designed to give all students whether they live on a farm or in town, basic knowledge and experience in raising and caring for animals. Some of the topics covered are many times determined to be the specific interests and needs of the students in the class.

**AG II: PLANT & ANIMAL SCIENCE (Science Credit)** 715 Grades: 10-12 Year

First semester will focus on agronomy. Students will gain knowledge and skills necessary for future employment in agronomy or related industries. Major units include scientific method, cellular biology, genetics, biotechnology, soil classifications, soil erosion and management, soil fertility, plant classification, plant anatomy and physiology, plant propagation, plant growth, IPM, gain, oil, forage, sugar, and fiber crop production methods, and grain quality, storage and transportation. Applied science and math skills and concepts will be stressed throughout the course as they relate to each area. Participation in FFA student organization and activities and Supervised Agricultural Experience projects as an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

Second semester will focus on animal science. Students will develop an understanding of livestock (beef, dairy, sheep, goats, and swine), poultry, and large (equine) animal industry. Topics of instruction include scientific investigations, genetics, animal anatomy and physiology, animal nutrition and reproduction, animal health and meat science. Participation in FFA student organization and activities and Supervised Agricultural Experience projects as an integral course component for leadership development, career exploration, and reinforcement of academic concepts. (Prerequisite: Ag I or an A or B in Biology)

**VETERINARY TECHNOLOGY (Science Credit + Dual Credit)** 716 Grades 11-12 Year

This course will develop students’ understanding of the small and companion animal industry, animal anatomy and physiology, animal ethics and welfare issues, animal health, veterinary medicine, veterinary office
practices, and animal services to humans. Topics to be discussed include: veterinary terminology, anatomy and physiology, pathology, genetics, handling and restraint, first aid, and physical examinations along with common surgical skills. Career exploration will focus on veterinarian, veterinary lab technicians, office lab assistant, small animal production, research lab assistant, and animal nutrition lab technician. Participation in FFA student organization and activities and Supervised Agricultural Experience projects as an integral course component for leadership development, career exploration, and reinforcement of academic concepts. (Prerequisite: Ag I and II, or 2 years of Science + teacher approval)

**AGRICULTURAL MECHANICS & TECHNOLOGY 716B**  
**Grades 11-12**  
**Semester**  
Students in this course are expected to develop an understanding of greenhouse management and plant growth as it relates to lighting, watering, humidity control, fertilizing, and temperature, which are necessary for plant growth. Also covered is the identification and use of foliage, flowering and bedding plants common to this area, along with the control and identification of plant pests, disease, and other disorders, which are common to horticultural plants. Further study includes the occupational areas related to the horticultural industry and the variety of jobs available leading to the introduction of merchandising, advertising, displaying, and selling of horticultural products and various topics in botany and agronomy.

**AG BUSINESS MANAGEMENT (Resource Mgt. Credit)**  
**Grades 11-12**  
**Semester**  
This course will develop students’ understanding of the agricultural industry relating to the United states and World marketplace. Instructional units include: business ownership types, planning and organizing the agribusiness, financing the agribusiness, keeping and using records in an agribusiness, operating the agribusiness, ag law, taxes, and developing employability skills. Student skills will be enhanced in math, reading comprehension and writing through agribusiness applications. Participation in FFA student organization and activities and Supervised Agricultural Experience projects as an integral course component for leadership development, career exploration, and reinforcement of academic concepts.  
(No prerequisites)

**AG WELDING**  
**Grades 11-12**  
**Semester**  
This course will emphasize the development of basic welding and metalworking skills necessary to succeed in agricultural careers in the agricultural metal fabrication industry. Topics of instruction include: welding safety, metal identification and properties, joint design and terminology, metal preparation, use of plasma cutter and plasma cam machine, stick metal arc welding (SMAW) focusing on flat and horizontal position, MIG welding, and project design and construction. Suggested electrodes for this course are E6013 and E6011. Participation in FFA student organization and activities and Supervised Agricultural Experience projects as an integral course component for leadership development, career exploration, and reinforcement of academic concepts. (No prerequisites)

**AG FOOD SCIENCE**  
**Grades 11-12**  
**Semester**  
This course provides learning experiences in food science and safety which allow students to apply scientific knowledge and processes to practices used in the development and preservation of food products. Issues of food science and safety are examined from a scientific and technological perspective. Students critically analyze information to evaluate and draw conclusions on the appropriate use of technology to implement food science and safety practices. Units of instruction include: principles of food preservation, food processing, biochemistry of foods, and food selection and consumer health. Careers to be examined include meat inspector, quality control technician, food processor, and sanitation supervisor. Students will use scientific and technological information about food science and safety as a part of developing career plans and personal viewpoints on societal issues concerning the development and preservation of food products. Participation in FFA student organization and activities and Supervised Agricultural Experience projects as an integral course component for leadership development, career exploration, and reinforcement of academic concepts. (Prerequisites: Ag Science or 2 science courses)
GREENHOUSE PRODUCTION  Grades 11-12  Semester
This course provides advanced agriculture students a technical understanding and working knowledge of the greenhouse industry. Topics include safety, plant physiology, plant identification, growing media, plant nutrition, IPM, propagation, growing greenhouse crops and greenhouse business concepts. Students will gain knowledge and skill related to the care and management of gardens and greenhouses. Agribusiness units will be introduced in merchandising, advertising, sales, and operating a greenhouse business. Participation in FFA student organization and activities and Supervised Agricultural Experience projects as an integral course component for leadership development, career exploration, and reinforcement of academic concepts. (Prerequisites: Ag Science or 2 science courses)

INDUSTRIAL TECHNOLOGY COURSES

Introduction to Technology and Engineering  Grades:9-12  Year
State Course ID: 21052A002
Introduction to Technology & Engineering is comprised of the following areas: Production, Transportation, Communication, Energy Utilization and Engineering Design but is not limited to these areas only. This course will cover the resources, technical processes, industrial applications, material sciences, technological impact and occupations encompassed by that system.

PRODUCTION TECHNOLOGY  718  Grades 9-12  Year
Production Technology is a course designed to foster an awareness and understanding of manufacturing and construction technology. Through a variety of learning activities, students are exposed to many career opportunities in the production field. Experiences in manufacturing include product design, materials and processes, tools and equipment including computers, safety procedures, corporate structure, management, research and development, production planning, mass production, marketing and servicing. In construction, students are exposed to site preparation, foundations, building structures, installing utilities, and finishing and servicing structures. Lab and material fees are required.

Principles of Technology I  Grades:10-12  Year
State Course ID: 21001A001
This course provides learning experiences related to the principles that underlie today's high technology: force, work, rate, resistance, energy, power, and force transformers. The course deals with these principles as they apply in each of the four systems that make up both the simplest and the most complex technological devices and equipment: mechanical systems, fluid systems, electrical systems, and thermal systems. Learning experiences are designed to allow students to acquire knowledge and skills which are transferable to postsecondary technical programs. Prerequisite: Intro to Technology & Engineering and/or Production Technology

CARPENTRY 1  719  Grades 10-12  Year
This course is designed to introduce students to the Carpentry/Carpenter occupation. Students are instructed in areas of safety, including hand tool, power tool, ladder, scaffolding and the use of safety harnesses. Students are introduced to the theoretical knowledge needed to lay out rafter, stairs, and basic framing techniques. Students demonstrate knowledge of blueprint reading, including foundations, concrete, floor plans, specification schedules, and electrical, plumbing and mechanical symbols. Students demonstrate entry-level skills in all facets of residential construction. Technology-related mathematics, reading, writing, vocabulary, blueprint reading, and science are integrated throughout the curriculum. (Prerequisite: Production Technology)*Lab and material fees are required.
CONSTRUCTION TRADES 1  720  Grades 11-12  Year
This course provides experiences related to the erection, installation, and maintenance of residential buildings and related fixtures. Planned learning activities allow students to understand fundamental principles and methods, and develop technical skills related to masonry, carpentry, and finish work. Instruction includes safety principles and practices, recognition of standard lumber sizes, foundation layout methods, building concepts and procedures, local, state, and national codes, cost estimating, and blueprint reading.*Lab and material fees are required.

OTHER VOCATIONAL COURSES

DELABAR/GALESBURG AREA VOCATIONAL CENTER  Grades: 11-12
Students earn two credits per year in courses offered at the Galesburg Area Vocational Center. The student is transported to and from the center in a Knoxville school bus. Current courses include: Electronics, Machine Shop, Auto Tech I & II, Building Trades, Food Services, Child Care, CAD Drafting, CiscoNet.Tech, Welding, Manufacturing, Exploration, Law Enforcement, and Health Occupations. To enroll in any of these courses, a Delabar Vocational Center registration form must be completed. Students must maintain at least a C average each semester to be eligible to continue in Delabar Courses.

OTHER COURSES REQUIRED FOR GRADUATION

HEALTH  800  Grade 10  Semester
Health is a required semester course. Topics discussed may include: lifestyles for wellness, stress management, mental/emotional health, promoting safe/healthy relationships, drugs, alcohol, tobacco, human sexuality, AIDS, CPR, environmental health issues, and major health issues of today.

DRIVER'S EDUCATION  801  Grades 9-10  Semester
In 18 weeks the student will study the means and methods of performing the driving task in a safe and efficient manner with emphasis on the knowledge of traffic laws, safe driving procedures, and vehicle maintenance. The behind the wheel (BTW) portion of the course is not required for graduation. On selected days of the week, the student receives actual instruction and practice in driving a motor vehicle under the direction and supervision of the teacher. The cost for BTW is currently $50.00. Illinois House Bill 418 requires the following prerequisite: Each student must receive a passing grade on at least eight courses of the previous two semesters prior to enrolling in this class.

RESOURCE MANAGEMENT  803  Grade: 12  Semester
This 9 week course meets the requirements of Senate Bill 977, which states that all pupils in public schools, grade 9-12, shall be taught and required to study areas of instruction including installment purchasing, budgeting, comparison of prices, and understanding of the goals of consumers interacting in a free enterprise system. Other topics studied will be saving and investing, research of careers and credit fundamentals. The remaining 9 weeks of the semester will transition to a study hall period.
PHYSICAL EDUCATION

P.E. 805 Grades 9-12 Year
This course is designed for students who wish to engage in a variety of individual and team sports along with fitness workouts. The emphasis of the class will be on learning the skills and strategies needed to be competitive in various games and sports. Examples of the individual sports that may be covered include badminton, pickleball, and shuffleboard. Examples of team sports that may be covered include flag football, soccer, speedball, softball, volleyball, basketball, and hockey. The students will be evaluated on participation, skill and written tests. The Presidential Physical Fitness Battery of Tests will also be administered each semester.

FITNESS P.E. 806 Grades 10-12 Year
This class is for students who enjoy fitness activities. Units of instruction will include: muscular strength/endurance, flexibility, cardiovascular endurance, body fat composition, nutrition, exercise and wellness, weight management and physical activities for life. Methods of instruction will include: use of the fitness room, aspects of cross-fit, station work, weight training, aerobics, fitness oriented activities/sports and discussions. Students will be evaluated by means of written tests, worksheets, participation, improvement, and develop a personal fitness program to use for life.

INTERMEDIATE WEIGHTLIFTING 807 Grades 10-12 Year
This course is designed to help students learn the proper techniques and safety used in strength and conditioning. The focus will be gaining strength and getting fit. This course will allow students to learn various weight lifting exercises as well as agility, flexibility, and plyometrics designed to assist them in their overall development. Students will learn the benefits of each type of training along with the muscles used during the lifts being completed. (Prerequisite: Grade of C or higher in prior PE classes)

ATHLETIC WEIGHTS 807A Grades 10-12 Year
This class is for athletes that have played and finished a sport within the last year. Students will focus on developing into better, all-around athletes by getting bigger, faster and stronger. This class is a more advanced level than Intermediate Weights.

ADVANCED HEALTH 800B Grades 11-12 Semester
Advanced Health is a semester long elective course for juniors and seniors. It is for students who want to further pursue health education for personal and/or professional goals and may be interested in pursuing a career in a health related industry. A variety of health topics will be discussed including current health issues, aging and your health, health career opportunities, chronic health issues and environmental health. Students will be able to apply what they have learned to their everyday lives.

PHYSICAL EDUCATION EXEMPTIONS

ATHLETIC WAIVER Grade: 11-12
A Junior or Senior may request a waiver from physical education for a semester if the student participates in an interscholastic sport during that semester and replaces the physical education course with an academic course. The student must remain in the 6 courses for the duration of the semester and complete the interscholastic sport season. Sport Seasons defined as follows:

Fall Semester P.E. Exemption: Spring Semester P.E. Exemption:
Golf Basketball
Cross Country Cheerleading (Basketball Season)
Football Poms (Basketball Season)
Volleyball Baseball
Cheerleading (Football Season) Softball
**NOTE:** Students requesting P.E. exemption based on Interscholastic Sport participation MUST complete the interscholastic season. Failure to do so will result in cancellation of waiver and reinstatement of P.E. requirement.

**COLLEGE BOUND WAIVER**
Grades: 11-12
A Junior or Senior may be exempt from P.E. if “enrolled in academic classes which are required for admission to an institution of higher learning, provided that failure to take such classes will result in the pupil being denied to the institution of his or her choice.” **Students must carry seven classes for the year (no study hall, Teacher’s Aide or Office Aide positions); FIVE of the seven must be college preparatory classes from the following departments: English, Foreign Language, Math, Science, or Social Studies. Permission from Counselor is required.**

**MEDICAL P.E. WAIVER**
Grades: 9-12
Any student presenting a medical excuse from a physician is not required to take Physical Education. Students are expected to enroll in an alternate course if they are excused from P.E. for the entire year. A Doctor’s note is required each year.

**SPECIAL EDUCATION**
Grades: 9-12
Special Education courses are available for learning disabled and mildly mentally handicapped students. Only those students with a special education Individualized Education Program (IEP) may be in these courses. Selection of courses will be determined at students’ I.E.P. meetings. The following courses may be offered: ENGLISH S.T.E.P. MATH SCIENCE READING STUDY HALL
## Tentative Four Year Plan for Knoxville High School

**Educational Plans (Check one):** 2-Year College ___ 4-Year College ___ Technical School ___ Military ___ Tech Prep ___

**Career Plans/Goals:** _____________________________________________________________________________________

**Course Requirements for Graduation (24 credits):**
4 credits in English, 3 credits in Math, 3 credits in Science, 3 credits in Social Studies, 3.5 credits in PE, .5 credit in Health, .5 credit in Resource Mgt., 0.5 credit in Driver’s Education, 1 credit in Art, Music, Foreign Language, or Vocational, and 5 additional verified elective credits.

**Course Requirements for College Entrance:** 4 years of English, 3 years of Social Science (World History, U.S. History, Government/Civics), 3 years or more of Math (completed at least Algebra II), 3 years of Science (Lab Science include Biology, Chemistry, Earth Science, Physics), *Foreign Language (2 years or more of the same language), and 1 year Art, Music, Foreign Language, Vocational. *School specific requirement (i.e. University of Illinois, Northern Illinois University, and University of Illinois Chicago to name a few)

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<thead>
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<th>9th Grade</th>
<th>10th Grade</th>
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<tbody>
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<td><strong>Subject</strong></td>
<td><strong>Courses</strong></td>
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<tr>
<td>English</td>
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**Total Credits**

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<th>12th Grade</th>
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<tbody>
<tr>
<td><strong>Subject</strong></td>
<td><strong>Courses</strong></td>
</tr>
<tr>
<td>English</td>
<td>1.</td>
</tr>
</tbody>
</table>

**Total Credits**

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Student's Signature __________________________________________ Date __________________

Parent's Signature __________________________________________ Date __________________