

USD 248



Girard High School

2005-2006

Course Guide

COURSE GUIDE

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NOTE: All classes are two semesters in length and worth one credit unless stated otherwise.

GRADUATION REQUIREMENTS

Total Units of Credit are Required = 24 units of credit/Specific Education Requirements

- English:** Four (4) units of credit, one must be taken each year to meet the minimum requirements. English I; II; III or English III (honors); plus one of the following: English IV, English IV-AP (honors), or Modern Literature.
- Social Science:** Three (3) units of credit are required, one credit of World History/Geography, one credit of American History, and one credit of American Government.
- Mathematics:** Two (2) units of math credit are required for the classes of 2005-2007. The class of 2008 is required to have (3) units of math from the following curriculum offerings: Applied Math I, Applied Math II, Algebra I, Geometry, Algebra II, Pre calculus, Calculus, and Elementary Statistics. Course selection will depend upon factors such as the student's math abilities, past achievement, post secondary plans, and the student's motivation toward learning.
- Natural Science:** Two (2) units of science credit are required for the classes of 2005-2007. The class of 2008 is required to have (3) units of science from the following curriculum offerings: General Science, Applied Science, Biology, Advanced Biology, Chemistry, Principles of Technology I & II, Physics, and Anatomy & Physiology. Course selections vary with factors such as student abilities, achievement, and interest in the science area.
- Computer:** One credit in Information Processing is required. (Transfer students with a typing credit MUST obtain a computer credit.)
- Physical Education & Health:** One unit of credit is required.
- Fine Arts:** One unit of credit is required (beginning class of 2008.)
[Exceptions may be approved by the Principal].

Comparison of GHS Requirements & Qualified Admissions

Girard HS Graduation Requirements 24 total units of credit	Qualified Admissions Requirements to attend a Kansas Regents University (A 2.0 minimum is required in the following pre college curriculum)	Kansas Scholar Curriculum (KSC), Ethnic Minority and/or Kansas Teachers Scholarship Program Re- quirements
English - 4 units	English - 4 units One unit must be taken each year. In addition students are encouraged to take courses in Drama and/or Debate.	English - 4 units One unit must be taken each year. In addition students are encouraged to take courses in Drama and/or Debate.
Math - 2 units class of 2008 3 units	Math - 3 units during high school Algebra I, Geometry, Algebra II & Pre-calculus (if Alg I is taken in the 8th grade- must take 3 more during high school years). Applied Math I and II can be substituted for Algebra I.	Math - 4 units Algebra I, Geometry, Algebra II, and one unit beyond Algebra II.
Natural Science - 2 units class of 2008 3 units	Natural Science - 3 units chosen from Biology , Advanced Biology, Chemistry, and/or Physics. Applied Science or Principles of Technology may constitute two units of Biology but not substitute for the Chemistry or Physics.	Natural Science - 3 units Biology, Chemistry and Physics
Social Science - 3 units	Social Science - 3 units 1 unit of World History/Geography 1 unit of American History 1 unit of American Government	Social Science - 3 units 1 unit of World History/Geography 1 unit of American History 1 unit of American Government
Information Processing- 1 unit	Computer Technology - 1 unit 1 unit of Computer Applications,	Computer Technology - 1 unit 1 unit of Computer Applications
Physical Education & Health - 1 unit	The Kansas Board of Regents strongly encourages students to take 2 units of one foreign language.	Foreign Language - 2 units of one language
Fine Arts - 1 unit (class of 2008)	The Board also recommends that students take one unit of the fine or performing arts. OR The student must have not less than a 21 on the ACT. OR The student must rank in the top 1/3 of his/her high school class	

FRESHMAN YEAR

Ag Tech Exploration
Algebra I (QA)
Applied Math I
Applied Science
Art I
Band
Choralation
Chorus
Debate & Forensics
Drama & Forensics
English I (QA)
Family & Consumer Science
General/Physical Science
Geometry (QA)
Industrial Drafting
Information Processing
Introduction to Drama
P E & Health
Principles of Tech. I (QA)
Technology Investigations
World History/Geo. (QA)

SOPHOMORE YEAR

2-Dimensional Art
3-Dimensional Art
Ag Construction (Shop)
Ag Project Construction
Algebra II (QA)
Animal Science (Ag Ed II)
Applied Math II
Architectural Drafting
Band
Biology (QA)
Choralation
Chorus
Computer App. I-II (QA)
Debate & Forensics
Drama & Forensics
English II (QA)
Lifetime Sports
Nutrition & Wellness/Parenting
Principles of Tech. II (QA)
Spanish I
Sports Fitness
Strength & Conditioning
Technology Investigations

JUNIOR YEAR

Accounting
Adult Living
Advanced Art
Advanced Biology (QA)
Ag Business Management
American History (QA)
Anatomy & Physiology
Band
Building Trades (3)
Chemistry (QA)
Choralation
Chorus
Crop & Soil Science (Ag Ed III)
Debate & Forensics
Desktop Publishing I (Yearbook)
Drama & Forensics
English III (QA)
English III [honors] (QA)
GHS Mentor
Health Career Science I (2)
Horticulture
Lifetime Sports
Mechanical Engineering
Multimedia
Pre Calculus (QA)
Physics (QA)
Small Engines Technology
Spanish II
Sports Fitness
Strength & Conditioning
Student Aide
Technology Investigations
Welding/Electricity

SENIOR YEAR

Advanced Art
Advanced Topics-Chemistry
American Government (QA)
American Government AP (QA)
Automated Accounting
Band
Building Trades (3)
Calculus (QA)
Choralation
Chorus
Communications
Debate & Forensics
Desktop Publishing II (Yearbook)
Drama & Forensics
English IV (QA)
English IV-AP [honors] (QA)
GHS Mentor
Health Career Science II (2)
In-House Training
Modern Literature (QA)
Probability & Statistics AP (QA)
Sports Fitness
Strength & Conditioning
Student Aide
Technology Investigations

Interactive Distance Learning (IDL) Courses:

FSCC college courses -
(College Credit only)
Health Career Sciences (2) -
(College Credit Optional)

(3)— 3 credits

(QA) -- Qualified Admission course

COURSE DESCRIPTIONS

FINE ARTS: (1 unit required beginning class of 2008)

Art I - An introduction to art as a process and form of communication. Students will learn composition through the elements and principles of design. Class projects will include but not limited to intensive drawing, painting, sculpture/ceramics & printmaking.

2-Dimensional Art - Semester one will concentrate on the study of 2-dimensional art forms. Projects will include but will not be limited to drawing, painting, and printmaking. Students will be responsible for an active sketchbook and research projects. Semester two concentrate on improving technique and skill levels in drawing and painting. Students will be dealt with on more of an individual basis focusing on a higher level of achievement in drawing, painting, and printmaking.
PREREQUISITE: Art 1

3-Dimensional Art - Semester one will involve intermediate clay projects, beginning assignments in wood carving, sculpture through wire, paper mache, plaster of paris and found objects. Although the primary focus for this class is on building sculptures, sketchbooks and research reports will be incorporated into the grade. Semester two will have further involvement into the hands on experience of sculpture making. Students will be given choices of carving materials, jewelry techniques, furniture designing and advanced clay projects.
PREREQUISITE: Art 1

Advanced Art - For serious art students willing to work more intensely on improving their artistic skill and personal style. Students will be expected to display their work publicly and to have an involvement with the art world around them. The focus will be to create a strong portfolio that may be used in the future.
PREREQUISITES: Art II with a C or above and instructors permission.

Band - A performance class combining concert, pep, and marching band with emphasis on daily participation and performance participation. Students must be able and willing to play, a woodwind, brass, or percussion instrument. Progress is projected through performances (football games, basketball games, parades, marching festivals, concerts, and contests). Accommodations are made for students participating in athletic events at which the band performs. *Special Note:* Twirling & Flag members are assigned to squads during marching season, afterwards required to play an instrument.

Choralation - Select chorus group for student who audition. This is a course that meets outside of the regular school day. It is for pass/fail credit.

Chorus - Open to student who enjoy singing. The class provides opportunities to improve singing technique, work one-on-one with the director on vocal skills, perform in a group ensemble, and learn basic music reading skills. A few before/after school rehearsals may occur for performance preparation. Most music will be learned in class.

Introduction to Drama - This class provides the student with the basic fundamentals of the theater and acting. Students will develop skills to overcome stage fright and learn how to perform in front of an audience. To do so, they will learn acting techniques including improvisation, characterization, stage movement, verbal and nonverbal delivery skills, and auditioning tips. Students will also learn about the history of theater, technical theater (lights, sound, scenery), types and genres of drama, and how to critique dramatic performances. Students will attend plays and assist with Girard High School theater productions. This is an introductory course for students who are hesitant about speaking or performing in front of others and would like to learn about drama without performing in competitions.

This class could serve as the one-year fine arts credit required for graduation.

Drama and Forensics - Fall semester focuses on the basics of theater including improvisation, characterization, movement, history of the theater and dramatic criticism. This class will focus on competitive public speaking, acting, interpretation, and debate. Forensics students use critical thinking skills and their creative abilities to polish performances for interscholastic competition. Participants must have a strong desire to perform before a group and be judged. Students are required to compete in Friday and/or Saturday forensics tournaments in the spring, attend practice work times, help host the local tournament, and prepare at least two different competitive events: one memorized and one non-memorized event. (This class may be repeated with credit by permission of the instructor.)

Debate and Forensics - Fall semester debate is equivalent to an “HONORS” speech class. Students who enroll should feel confident in their abilities to speak in front of an audience. Students will gain library and computer research skills and critical thinking skills as they search for evidence and argue *both* sides of the **national debate topic**. This activity takes dedication and challenges students’ higher level thinking skills. In Forensics (spring semester), students will study and perform a variety of speaking, acting, interpretation, and debate events. Participants must have a strong desire to perform before a group and be judged. Debate and forensics students must attend some weekend tournaments, participate in practice work times, and assist at the local tournament. (This class may be repeated with credit by permission of the instructor.)

FOREIGN LANGUAGE: (two units recommended not required for QA)

Foreign language is recommended, not required, for Qualified Admission. Due to scheduling, students are advised to enroll during the sophomore year or above assuming students will study through the second year, wanting this to be current for college.

Spanish I - This full year class is designed to meet the needs of students who have had little or no experience in learning Spanish as a foreign language. Students comprehend, read, write, and memorize vocabulary dealing with daily experiences. Students participate in basic conversations in Spanish and respond to classroom instruction in Spanish. Students study the organizational structure of language, identify relationships between cultures and demonstrate an increasing awareness of civilization and customs of the target culture. Most of the instruction is in Spanish.

Spanish II - This full year class is designed for students who have successfully completed Spanish I. Students expand their language skills, vocabulary and knowledge of culture. Greater emphasis is placed on exposure to authentic materials found in the target culture and building vocabulary. Student's knowledge of grammar concepts in the target language includes more verb tenses and complex sentence structures. Geography, civilization and current events of the target cultures are included in this class. Students can expect homework daily and quizzes weekly. Most of the instruction is in Spanish.

TECHNOLOGY EDUCATION:

Technology Investigations- Open to grades 9-12. Technology Investigations is a class that engages students in a variety of simulated business and real world, career—oriented experiences using computers, video instruction and hands-on tools. The student experiences internet web page design, graphics editing, power point presentations, auto cad design, CNC mill programming, materials testing, stock market speculation, business management, and team problem solving using technology. Crossland Construction curriculum will be included and students will receive the introductory NCCER certification.

Industrial Drafting- Introductory course designed to provide basic drafting skills along with the knowledge necessary for understanding the principal ideas behind drafting communication. It presents basic instruction in preparing industrial working drawings using both traditional and computer-based methods. Will gain technical skills to communicate ideas in an understandable, efficient, and accurate manner. Learning activities include experimentation with designing, constructing, and testing industrial ideas.

PREREQUISITE: Geometry (previous or concurrent enrollment)

Architectural Drafting (CADD)- A second-year drafting course providing basic drafting skills along with information necessary for planning and designing various types of structures and dwellings. It presents basic instruction in preparing architectural working drawings using both traditional and computer-based methods. Learning activities include experimentation with designing, constructing, and testing architectural ideas.

PREREQUISITE: Industrial Drafting.

Mechanical Engineering (CADD) - A third-year drafting course designed to teach advanced drafting skills along with the knowledge necessary for understanding the more complex ideas behind drafting communication. Drawings are of mechanical parts, including gears, pulleys, shafts, bolts, and mechanical drive trains, in three-dimensional and exploded views. **PREREQUISITE:** Industrial and Architectural Drafting

LANGUAGE ARTS: (4 Units Required - 1 course each year)

English I and II are required of all freshmen and sophomores. Either English III or English III (Honors) is required of all juniors. Exception: if a student is being served with an IEP that precludes enrollment in these courses.

English I (QA) - Students will concentrate in literature for a semester and oral communications, grammar, and writing for a semester. Vocabulary will also be studied throughout the year. During the literature segment, students will thoroughly study, analyze, and write about William Shakespeare's *Romeo and Juliet* and selected classic short stories in terms of literary techniques to gain an appreciation of literary classics. During the oral communications, grammar, and writing semester, students will work on the principles of research, organization, use of language (mechanics and grammar), and composition writing.

English II (QA) - Students will study writing and literature in a integrated program directed toward their understanding and appreciation of both, developing their writing skills and enhancing their vocabulary usage. Because of the literature involved, reading and discussing are essential to the learning. Class participation is vital. Students will also study spelling which will involve analogy and reading comprehension.

English III (QA) - By design, it is an integrated English course with study directed toward students understanding and appreciating literature; developing descriptive, expository, narrative, persuasive, and technical writing skills, and enhancing vocabulary.

PREREQUISITE: Successful completion of English I and English II.

English III (Honors) (QA) - By design, it is an advanced, integrated English course for upper level language arts students with study directed toward students understanding and appreciating literature; developing descriptive, expository, narrative, persuasive, and technical writing skills; and enhancing vocabulary

PREREQUISITE: Successful completion of English I & II, with an 'A' in English II for at least one semester. Students enrolling in this course are also required to complete a writing assessment for composition skills evaluation to determine appropriateness of placement.

English IV (QA) - A class designed to prepare students for introductory college English courses. This course will focus on structural techniques for composition writing; research and reference skills necessary in writing a major research paper; basic mechanical and vocabulary skills necessary for developing narrative, expository, descriptive, and technical writing; and short assignments representing critical thinking and analysis skills used in examining literary works. Prerequisites: successful completion of English I, English II, and English III.

English IV -AP (QA) - An advanced class, designed to prepare the college-bound student for introductory college English. This course will focus on structural techniques for composition writing; research and reference skills necessary in writing a major research paper; basic mechanical and vocabulary skills necessary for developing narrative, expository, descriptive, and technical writing; and short assignments representing critical thinking and analysis skills used in examining literary works. Prerequisites: successful completion of English I, English II, and an 'A' for at least one semester of English III.

Modern Literature (QA) - Students will analyze significant modern literature with universal themes, including writings by women, ethnic minorities, young adults, and literature translated from foreign languages. Students will be challenged to write frequently on related topics in the form of analytical essays, creative writing, and short assignments representing critical thinking. Prerequisites: successful completion of English III for seniors or an 'A' average in English II if desiring enrollment as a junior.

Communication - Students enrolled in Communication will write and edit news for weekly publication on the Trojan Tribune page in the Girard Press and for publication online. Students should have strong writing skills, be self-directed, and be above average and college bound. Enrollment is limited, open to seniors only, and must have prior approval of the instructor.

BUSINESS AND COMPUTER TECHNOLOGY: (Information Processing Required)

Information Processing - A year long course continuing previously acquired keyboarding techniques. Introduces business formatting of letters, memos, reports, tables, desktop publishing, multi-media, and various software applications on word processors. Proofreading/editing documents, improving listening skills, reviewing basic grammar rules, following directions, word processing for speed & accuracy, and a career unit are included. **REQUIRED FOR ALL FRESHMEN.**

Computer Applications I (QA) - Students will learn to use the computer as a tool for many tasks. Areas to be taught include ethics, operating systems, word processing review, how to research on the Internet and e-mail. Concurrent enrollment in Computer Applications II required. **PREREQUISITE:** minimum "C" in Information Processing.

Computer Applications II (QA) - A second semester course preparing students to use advanced computer technology. Database, spreadsheets, graphs, desktop publishing, and multimedia are introduced. Concurrent enrollment in Computer Applications I required.

Multimedia - Designed to expand beyond the introductory level to create special projects. Concurrent enrollment in Advanced Multimedia and requires written permission from instructor. **PREREQUISITES:** minimum "B" in Computer Applications I & II.

Advanced Multimedia - A second semester course designed to expand beyond the beginning level of Multimedia and enhance features previously learned.

Concurrent enrollment in Multimedia.

Accounting I - Students will study entry level accounting, handle personal business applications, be introduced to accounting terms, and learn computerized accounting. PREREQUISITE: Junior status, minimum "C" in Algebra I. Workbook \$10-\$20 charge.

Computerized Accounting II - This course will prepare students to study accounting at a post secondary level or enter the job force in beginning levels. First semester, students will complete one review cycle of accounting by hand.

PREREQUISITE: Accounting. Workbook \$15 - \$20 charge.

Computerized Accounting III - The second semester will continue preparing students to study accounting at a post secondary level or enter the job force in beginning levels. Second semester will be devoted to automated activities.

Concurrent enrollment in Computerized Accounting II.

Desktop Publishing (Yearbook) I (Jr's) II (Sr's) - Students will learn and demonstrate desktop publishing techniques and complete a style manual and a senior memory book, complete with printouts, duplication and assembly. The high school yearbook will be sent to the Josten's plant for assembly. Scanning photos and negatives and placing them into professional layouts are a part of this class. Requires written permission from instructor.

PREREQUISITE: minimum "B" in Computer Applications and English III.

In-House Training - Designed to let the students perform duties as employees in live production work from community and school based projects in a company simulated setup within the classroom. Required written permission from Instructor.

PREREQUISITE: Computer Applications I & II and Accounting I.

CO-REQUISITE: Multimedia or Desktop Publishing.

MATHEMATICS: (2 Units Required) (3 Units Required for Class of 2008)

Course Sequence	8th	9th	10th	11th	12th	Prerequisites
Applied Math I		X				
Applied Math II			X			Applied Math I
Algebra I	X	X				
Geometry		X	X			Algebra I
Algebra II			X	X		Geometry
Pre-Calculus				X	X	Algebra II
Calculus					X	Pre-Calculus
Problems & Statistics					X	Algebra II (Senior Only)

X - recommended enrollment

Applied Math I - Designed to strengthen math skills for success in upper level mathematics. A study of arithmetic with attention to basic skills and structure, as well as development of the real number system.

Applied Math II - A continuation of the course of study begun in Applied Math I. Includes such topics as formulas and equations, probability, statistics, graphing data, right triangles and trigonometry. Emphasis is on solving problems found in real world situations. PREREQUISITE: completion of Applied Math I.

Algebra I (QA) - Study of basic arithmetic combinations, patterns and problem solving as they are apply to unknown values, with emphasis on graphing as a visual connection. Develops the basic algebraic skills necessary for advanced math classes.

Geometry (QA)- Study of basic geometrical properties and their logical application to geometrical figures. Further development of logic in both mathematical and non mathematical situations to understand geometric figures and their uses and to develop powers of spatial visualization. PREREQUISITE: Algebra I.

Algebra II (QA)- Advanced study of Algebra I and Geometry concepts with emphasis on graphic representation. Includes analytic geometry, trigonometry and advanced problem solving skills. Recommended for the college bound student. PREREQUISITE: Algebra I. Previous/concurrent enrollment in Geometry is recommended but not required.

Pre Calculus (QA) - Study of problem solving using analytic geometry and the trigonometric functions. Continuation of previously studied topics and introduction to limits and other calculus concepts. Students must routinely use a graphing computer to explore and solve real world problems.

PREREQUISITES: Algebra I, Algebra II, and Geometry.

Calculus (QA) - Study of differential and integral calculus emphasizing concepts and applications to real world situations, review of functions, analytic geometry, and limits.

PREREQUISITES: Algebra I, Algebra II, Geometry, and Pre Calculus.

Probability & Statistics AP (QA) - A senior introductory course studying data collection, analysis and methods of statistical inference. Topics will include frequency distributions, measures of central tendency, probability, sampling distributions, t-test and chi-square tests, and correlation coefficients.

PREREQUISITES: Algebra II and competency with a TI-85 calculator.

PHYSICAL EDUCATION: (1 Unit Required)

Physical Education & Health (P.E.) - A freshman level course in the development of physical fitness and maintenance through participation in various activities: exercise program with calisthenics, weight training, and skill testing. Emphasis is placed on understanding the importance of physical health and hygiene. Units of instruction include first aid, CPR training, and A Healthy Living Curriculum. REQUIRED.

Strength and Conditioning - Designed specifically for female athletes grades 10-12 to develop muscular strength, endurance, power, speed, and flexibility through plyometrics, weight training, agility drills, and endurance activities. Enhances performance and will improve physical development. Will not replace Physical Education & Health credit.

Sports Fitness - This course is designed for male students and male athletes grades 10-12 receiving extensive weight training, plyometrics, and other conditioning skilled areas. The importance of physical training and positive health awareness will be stressed.

Lifetime Sports - This course is open to students grades 10-12 only. Emphasis will be placed on fitness and sport activities with carryover value and lifetime benefits. Activities may include bowling, tennis, table tennis, golf, hunter/safety instruction, CPR instruction, outdoor sports, and rules and officiating of various sports. This course does not replace the credit requirement for Physical Education & Health.

SOCIAL SCIENCE: (3 Units Required)

World History/Geography (QA) - Designed for freshmen or sophomores, this course is a combination of World History and Geography with emphasis placed on physical, cultural, and historical significance of all world countries. **REQUIRED.**

American History (QA) - Study in chronological record, major events shaping United States' post-Civil War development, particularly the development of political, economic, and social institutions comprising American culture. **REQUIRED** for juniors.

American Government (QA) - The study of American government's organization and functions emphasizing the fundamentals in the U.S. Constitution and citizen participation in the political process. American and world economics will also be studied. **REQUIRED** for seniors.

American Government AP (QA) - The study of American government's organization and functions emphasizing the fundamentals in the U.S. Constitution and citizen participation in the political process. American and world economics will also be studied. This course is for students who are college bound and are willing to do more reading and research. Students must have teacher's permission before enrolling in this course.

SCIENCES: (2 Units Required) (3 Units Required for Class of 2008)

Course Sequence	8th	9th	10th	11th	12th	Prerequisites
Applied Science		X				
General Science		X				
Principles of Technology I		X	X			Algebra I
Biology			X			
Principles of Technology II				X		
Chemistry				X*		Algebra I & PT I or Biology
Advanced Biology				X*		Biology
Anatomy & Physiology					X*	Biology
Physics				X		Algebra II
Advanced Topics -Chemistry					X	Chemistry

*X - earliest recommended enrollment * - special requirements to enroll earlier*

Applied Science - An introductory science class designed for the freshman or sophomore student. Topics to be covered include: methods of science, scientific inquiry, science and technology, introduction to chemistry, basic life science, and personal / environmental science.

General/Physical Science - An introductory class focusing on physical science intended to satisfy one of the two science requirements for graduation. The course will consist of application of the scientific method, use of the SI system of measurement, working problems using the basic laws of physics, an introduction to chemistry, and a study of the different forms of energy.

Principles of Technology I (QA) - An applied physics course consisting of five units of study, targeting the principles of force, work, rate, resistance, and power. Each of the unifying concepts is applied to mechanical, fluid, thermal, and electrical energy systems. Each unit includes the mathematics to understand and apply scientific principles. Format is varied to include video, lecture, guided practice, and lab exercises. Special projects in bridge building, car design, & rocketry are incorporated throughout the year. PREREQUISITES: Sophomore standing & minimum “C” in Algebra I. (Freshman with an “A” in 8th grade science and “B” or above in Algebra I)

Principles of Technology II (QA) - An extension of the Principles of Technology I course. This upper level applied physics course includes the study of five additional concepts: energy, force transformers, momentum, waves and vibrations, and energy converters. The format follows the guidelines outlined in the Principles of Technology I course, with special projects designed each year to meet the needs and interests of those enrolled. PREREQUISITE: Successful completion of Principles of Technology I.

Biology (QA) - A sophomore course based on fundamental principles and processes of life as found in animals and plants, particularly the cell and its functions. Recommended for the college bound student, especially for those having an interest in career choices in a related field. This class will be taught on an upper-biology level. Freshman criteria: A in 8th grade science, B or better in Algebra I, and if class openings are available.

Chemistry (QA) - The study of the composition, structures, properties of matter and the changes it undergoes. Chemistry is primarily a laboratory science. Students spend a great deal of time observing chemical and physical phenomena, lab investigations, research, and discovery experiences. Major topics include: matter and change, measurements and calculators, atomic theory, electron arrangement, periodic law, chemical bonding, chemical formulas and reactions, Highly recommended for the college bound sophomore, junior or senior. PREREQUISITE: minimum “C” in Algebra I and either Biology or P.T. I.

Physics (QA) - A physical science dealing with matter and energy and their transformations. The principles and laws of force, motion, heat, and electricity will be studied. The theory of matter and wave motion will also be presented. PREREQUISITE: Algebra II and proficiency with either the TI-81 or TI-85.

Advanced Biology (QA) - Advanced lecture and laboratory course involving a study of the major areas of Biology. Topics include advanced cell biology, genetics, microbiology, virology, biotechnology, field biology and botany. PREREQUISITES: minimum “C” in Biology.

Advanced Topics in Chemistry - Advanced lecture and laboratory course involving a study of the major areas of Chemistry. Topics include acid-base titration's, reaction energy and kinetics, chemical equilibrium, oxidation- reduction reactions, and intermediate organic chemistry. **PREREQUISITES:** minimum "C" in Chemistry.

Anatomy and Physiology - An advanced level biology course that involves a detailed study of the structure and function of the human body. Emphasis is placed on the increasing complexity of cells, tissues, organs, and organ systems. Class time is divided between lecture and laboratory activities, including dissection of specimens. This class is for serious students, especially those who are college bound and interested in pursuing careers in the health fields.

PREREQUISITES: Jr./Sr standing and successful completion of Biology and Chemistry or concurrent enrollment recommended in chemistry.

VOCATIONAL EDUCATION

Building Trades I - II - A study of hands-on applications of various trades required in construction industries. Offered in three-hour blocks in mornings and afternoons. Open only to juniors and seniors interested in construction technologies. Projects include garages, storage buildings, and possibly a house.

AGRICULTURE TECHNOLOGY EDUCATION:

The Agriculture Technology Education curriculum is designed to provide a four-year continuum of training for students interested in production agriculture or agribusiness, although enrollment in Ag Tech Exploration is acceptable any year. Completing the Ag Ed program will prepare students to enter the work force or continue their education at an institution of higher learning. Ag Ed students are expected to be active members of the National FFA, an organization stressing development of premier leadership, personal growth, and career success through agricultural education.

Ag Tech Exploration (Ag Ed I) (Classroom/shop) - Introduction of agriculture, the National FFA organization, and hands-on application of basic shop skills. Student notebook and record book for the agriculture production or agribusiness program is required. Safety glasses, shop clothes, and tape measure required last nine weeks.

Animal Science (Ag Ed II) - The study of breeds, selection, care, management, and processing of different livestock species. A notebook for class notes and a record book for the student's SAEP program are required. **PREREQUISITE:** Ag Tech Exploration.

Ag Construction (Shop) - Study of different types of welding, including Arc, MIG, and TIG. Other skills will include plasma cutting, and electricity. Students will apply these skills in designing and building their own projects. Safety glasses, shop clothes, pliers, and tape measure are required.

PREREQUISITES: Successful completion of Ag Tech Exploration and prior or concurrent enrollment in Animal Science.

Ag Project Construction (Shop) - A study of the various types of equipment and machinery necessary in shop operations. Student projects include the construction of gates, feeders, crates, etc. Students are required to have a tape measure, safety glasses, pliers, and shop clothes.

PREREQUISITES: Successful completion of Ag Tech Exploration and previous or concurrent enrollment in Animal Science.

Crop and Soil Science (Ag Ed III) - A study of soil and water conservation and crop production including the nature and importance of soil; the properties, uses, and application rates of fertilizer; and the growth, reproduction, and identification of plants, seeds, and field crops in this area.

PREREQUISITES: Ag Tech Exp. & Animal Science.

Ag Business Management - The management of any agriculture or agri-related business enterprise, including budgeting, financial management, business arrangements, credit management, marketing, and income tax.

PREREQUISITES: Ag Tech Exp. & Animal Science.

Small Engines (Shop) - The theory, operation, and hands-on experience of small gas engines. Students will be able to apply hands-on experience in disassembling, measuring, and diagnosing problems concerning small engines. Students must have safety glasses and shop clothes. Open to juniors or seniors.

Horticulture - An introductory course in horticulture. Information on careers in the industry, plant classification, plant growth and development, greenhouse operations, vegetable and plant problems, and controls will be discussed, and many greenhouse lab experiments will be conducted. Open to juniors and seniors.

Welding/Electricity - Welding skills covered include Arc, MIG, TIG, and oxyacetylene welding; brazing; using the cutting torch and plasma cutting. Electricity will be covered as to general house wiring. Safety glasses, shop clothes, pliers, and tape measure required. Open to juniors and seniors.

FAMILY AND CONSUMER SCIENCE:

Family and Consumer Science - An introductory course for students in grade 9 through 12. This is a year long course of study. Students will develop basic skills necessary to improve the quality of personal and family life. Study will be in the areas of personal development, resource management, nutrition, clothing, housing, and interpersonal relationships.

Nutrition and Wellness - A semester course for grades 10-12 & taken concurrently with Parenting. Students have the opportunity to be involved in making decisions concerning personal nutrition and wellness, applying consumer skills, meal management activities, and food preparation techniques. Nutrition and Wellness is a lifestyle choice. The purpose of this course is to enable students to develop nutrition and wellness habits that will become a part of their everyday life. PREREQUISITE: Family and Consumer Science.

Parenting - A semester course taken concurrently with Nutrition and Wellness. The class provides basic knowledge of how a child develops physically, emotionally, and intellectually. Students will be given the opportunity to experience the role of a parent by participating in the “Baby Think It Over” simulation as well as other hands on activities. In addition, students will examine the changing roles and relationships that are a part of the family in today's society. PREREQUISITE: Family and Consumer Science.

Adult Living - A year long class open to 11th and 12th graders. Students will develop critical thinking skills concerning issues involving work and its impact on the family. They will also study money management, housing concerns and consumer responsibilities that will enable them to handle the multiple roles of wage earner and family member in the adult world.

“Junior and Senior Only” Electives:

GHS Mentor - Junior and seniors wishing to be considered as a mentor must have: 3.0 GPA, demonstrate good responsibility, good attendance, pass Youth friends screening, received recommendation from two teachers and administrative approval. Any exceptions to these requirements must receive unanimous recommendation from the mentoring committee. Applications must be picked up from the counselor prior to enrollment.

Student Aide - Junior or Senior students in good standing may be an aide for a department, teacher, library, or office as an elective with no credit. Permission forms must be submitted with the pre-enrollment form. Juniors must have a 3.0 cumulative GPA.

Health Career Science I - available to 11th and 12th grade students. Health Career Science introduces students to the rapidly growing field of Health Careers. Career research, medical terminology, introductory anatomy and physiology, discussion of the disease process, communication skills, basic patient care skills and observation/on-the-job training experiences in community health care facilities. All students enrolling in Health Career Science I should have completed two science and two math credits with a grade of C or better. Cost: approximately \$140 for uniforms and books. **NOTE: optional dual credit**

Health Career Science II - available to students who have successfully completed Health Career Science I with the instructor's and sending school counselor's recommendation, will continue to expand didactic and clinical competencies. Health Career Science II will include a combination of healthcare related courses and/or on-the-job training in a related clinical area. **NOTE: optional dual credit**

COLLEGE CREDIT COURSES: (not for High School Credit)

Fort Scott Community College instructors teach across the Interactive Distance Learning (IDL) system. The courses are available to seniors only who **MUST** enroll in all four courses, two each semester, due to college scheduling differences. **Tuition is paid to Fort Scott Community College, approximately \$57.00 per credit hour (\$684 total tuition or \$342 per semester). Books and incidental costs are also the student's responsibility. Students must have a 21 in English and a 21 in Math on the ACT to enroll in these courses or take the COMPAS at FSCC and receive an equivalent score.**

Fall 2005 Classes: 6 credit hours total

English Comp. 101 (Monday, Wednesday, & Friday) 3 credit hours - 8:00 am to 8:55 am

College Algebra (Tuesday & Thursday) 3 credit hours - 7:30 am to 8:55 am

Spring 2006 Classes: 6 credit hours total

English Comp. 102 (Monday, Wednesday, & Friday) 3 credit hours - 8:00 am to 8:55 am Sociology (Tuesday & Thursday) 3 credit hours - 7:30 am to 8:55 am