

AUBURN HIGH SCHOOL



2009-2010 REGISTRATION BULLETIN AND OUTLINE OF COURSES

Grades 9 – 12

DISTRICT #29 MISSION STATEMENT

“We prepare our students to be productive and responsible citizens in an ever-changing world.”

Information found in this bulletin explains the Auburn High School course offerings and will assist students in planning their high school course of study. Career objectives, abilities, and aptitudes of individual students are not likely to be the same; consequently, it is important that students, working with parents and the counselor, plan carefully.

A planned program of study should be thought of as a total four-year educational experience with definite goals in mind. Students should take time to set goals and then construct a plan to attain them.

PHILOSOPHY OF EDUCATION - AUBURN HIGH SCHOOL

Meeting the needs of students in a rapidly changing democratic society is the goal of the school curriculum. In a democracy, the function of the public school and its course of study are to serve the entire student body, and at the same time, address the individual needs of each student.

High school educators strive to provide a framework of learning opportunities during a sometimes difficult transition to adulthood. As a result of students' high school classes and studies, we hope students are able to learn skills and development understandings that allow them to become productive and responsible citizens.

Auburn Public Schools Mission: *We prepare our students to be productive and responsible citizens in an ever-changing world. Our Children . . . Our Future*

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CLASSIFICATION OF STUDENTS

Freshman	completed 0-1 semesters of school
Sophomore	completed 2-3 semesters of school
Junior	completed 4-5 semesters of school
Senior	completed 6+ semesters of school

DEFINITION OF TERMS

CURRICULUM -- A course of study designed to fulfill the needs of the student.

ELECTIVE CLASSES -- Classes that may be selected but are not specifically required for graduation.

CREDITS – Numerical value placed on a course. In general, a student who passes a course that meets five class periods per week for one semester receives five credits; five class periods per week for two semesters receives ten credits, etc.

PROGRAM OF STUDIES -- A planned program of courses to be studied in an appropriate sequence. Each student's program should reflect purposeful planning leading to the development of a marketable skill or the attainment of an academic goal.

DEFICIENCIES -- courses that have been failed or not taken that are required for graduation.

COLLEGE ADMISSION CORE -- The admission core are the classes that colleges and universities require for admission. Some colleges require certain core classes while others do not. The classes marked with a “C” meet most colleges’ requirements in that academic area. If you are not sure if your college requires any core classes for admission, please check the appendix, contact the college, or talk with the guidance counselor. It is your responsibility to meet both graduation and college admission requirements. If you require assistance, please feel free to contact the high school guidance counselor.

SCHEDULE CHANGES

All students are counseled by the guidance department in the development of their four-year course of study. Each program reflects individual interests and abilities. Students are encouraged to discuss their program in detail with their parents and make adjustments as seen feasible.

Proposed changes must be discussed with the guidance counselor. Parental approval for specific changes may be requested.

Spring registration is designed to permit students to develop a preplanned course of study. This registration is intended to reflect both 1st and 2nd semester class assignments for the following academic year and shall be considered final. Changes must be considered of an emergency nature and must be discussed with the guidance counselor.

If registration numbers are not sufficient to fill a class, the course will not be offered.

STUDENTS SHOULD CONSIDER FUTURE GOALS WHEN PLANNING A HIGH SCHOOL COURSE OF STUDY. **INSTITUTIONS CHANGE REQUIREMENTS.** IF A STUDENT HAS QUESTIONS PERTAINING TO A PARTICULAR POST-SECONDARY SCHOOL, THE MILITARY, OR A CAREER, **CONTACT THE GUIDANCE OFFICE FOR SPECIFIC INFORMATION.**

It is your responsibility to meet both graduation and college admission requirements.

AUBURN HIGH SCHOOL GRADUATION REQUIREMENTS

GENERAL:

1. Students must successfully complete a minimum of **240** credit hours
2. A normal load within an eight (8) period day is considered to be a combination of seven (7) classes and one (1) study hall. Students must have guidance counselor/principal approval to have less than seven (7) classes. Academically talented students may enroll for a heavier load with permission. The student's ability and interest will be considered in determining his/her load. Students are encouraged to participate in at least one school activity or organization.
3. Students are expected to attend school the full school day unless excused to participate in the work-study program, for attendance at another school (e.g. college or technical school), or for some other reason that has been approved by the school in accordance with attendance regulations.

SPECIFIC:

Each student is expected to successfully complete course work in each of the areas listed: (Transfer students, students pursuing a predetermined program of studies requesting special exception, and students assigned to the work-release program may have requirements adjusted with approval from the guidance and administrative offices).

1 -LANGUAGE ARTS: 40 semester credits — must include 2 semesters in each of the following English classifications: English 9, English 10, English 11 and English 12 AND 1 semester of Reading 10 or STARS English 10.

2 -SOCIAL STUDIES: 30 semester credits — must include World Cultures (2 semesters), American History (2 semesters) and American Government (one semester).

3 -MATHEMATICS: 30 semester credits for the Class of 2010 and beyond. Of those 30 credits, 10 must come from an Algebra course and 10 from a Geometry course. Students are also required to take at least one Math class during their junior year. Those students who successfully completed 8th grade Algebra will receive HS credit.

4 -SCIENCE: 25 semester credits (Must include Biology; Physical Science, Physics, or Chemistry; and Earth Science 10). Students who are able to demonstrate proficiency of the Nebraska Earth Science Standards will not be required to Earth Science and will only need to complete 20 semester credits for graduation.

5 -PHYSICAL EDUCATION and HEALTH: 10 semester credits – must include 9th grade Health and PE.

6 –FINE / PRACTICAL ARTS: 10 credits — to be selected from Family & Consumer Science, Industrial Technology, Business Education, Computer Science, Reading 10, PE3 Wellness, AHS Newspaper, Journalism, Vocal Music, Instrumental Music, or Art.

7 –ESSENTIALS FOR CAREERS & LIFE: 5 credits — required of all juniors.

MINIMUM COLLEGE REQUIREMENTS

These are suggested **minimum** requirements for various types of post-secondary schools in Nebraska. Specific information regarding specific institutions can be obtained from the guidance office.

	<i>Technical Schools Business Schools</i>	<i>Entrance to State College or Private</i>	<i>Entrance to UNL, UNO, UNK</i>
E N G	35 hrs. of Eng Recc. 40 hrs. Eng Journalism, Foreign Lang. class for college.	40 hrs. of Eng	40 hrs. of English Journalism is NOT included as an Eng.
S C I	20 hrs. of Science (Biology + Phys. Sci. & elective sciences)	20 hrs. of Science	30 hrs of Science (Physics for Engr.)
M A T H	20 hrs. of Math Alg I & Geom. recommended	20 hrs. of Math Rec. 30 hrs. of Math & Geom.	40 hrs. at UNL 30 hrs. at UNO/UNK Alg. I & II & Geom.
S S	30 hrs. of Social Studies	30 hrs. of Social Studies	30 hrs. of Social Studies
E L E C T	Depending upon the area a student wants to study, he/she may need electives.		See Appendix

STUDENT PRE-REGISTRATION WORK SHEET

Student _____

Grade (next term) 9 10 11 12

Sex: Male Female

SS # _____

Birth date _____

Parent/Guardian Name and Address _____

First Semester

Second Semester

Course title

Course title

=====

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____

NOTES:

COURSE OFFERINGS AND YEAR WHEN COURSES ARE NORMALLY TAKEN

4 YEAR PLANNING & REQUIRED COURSES

GRADE 9

1st semester

1. English 9
2. PE/Health
3. World Cultures
4. _____
5. _____
6. _____
7. _____
8. _____

2nd semester

1. English 9
2. Health /PE
3. World Cultures
4. _____
5. _____
6. _____
7. _____
8. _____

GRADE 10

1st semester

1. English 10
2. Am. History
3. Reading 10 / STARS English (1st or 2nd)
4. _____
5. _____
6. _____
7. _____
8. _____

2nd semester

1. English 10
2. Am. History
3. Reading 10 / STARS English (1st or 2nd)
4. _____
5. _____
6. _____
7. _____
8. _____

GRADE 11

1st semester

1. Am. Lit./Comp.
2. Am. Govt. (1st or 2nd sem.)
3. Careers (1st or 2nd sem.)
4. _____
5. _____
6. _____
7. _____
8. _____

2nd semester

1. Am. Lit./Comp.
2. Am. Gov. (1st or 2nd sem.)
3. Careers (1st or 2nd sem.)
4. _____
5. _____
6. _____
7. _____
8. _____

GRADE 12

1st semester

1. English 12
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

2nd semester

1. English 12
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

STUDENT REGISTRATION SUPPLEMENT

Each student will complete a registration form for the 2009-2010 school term. Course requests will be used in constructing a master schedule.

Following the development of a master schedule, students may finalize registrations through personal conferences with the counselor.

Students are encouraged to visit with teachers when there is a question regarding a course of study or minimum requirements for class entry. This should be done as the worksheet is being prepared and prior to the completion of the initial course selections.

In the event that student interest exceeds section possibilities (number of classes possible), priorities will be established to close enrollment.

All students are requested to complete a full schedule at the time of registration. Special requests for less than a full schedule will be reviewed after the master schedule has been determined.

DUAL ENROLLMENT AT PERU STATE COLLEGE

Students have the opportunity to dual enroll at Peru State College by enrolling in specified high school courses. This will allow students to fulfill some college requirements while in high school. Juniors and seniors with a minimum GPA of 3.0 are eligible for this program. See the guidance counselor for more details.

AP COURSES

Students have the opportunity to enroll in Advanced Placement Courses. Students who take these courses will be able to sit for the final exam at the end of the year. The cost to take the exam is the responsibility of the student's family. (The cost to take an AP exam during the 2008-2009 school year was \$83.) Additional information on the AP program can be found at <http://www.collegeboard.com/student/testing/ap/about.html>.

INDEPENDENT ON-LINE ENROLLMENT

Senior students may enroll for on-line courses that are not offered by Auburn High School. Students will be required to complete the course work independently during a specified class period and will use an Auburn High computer laboratory. In order to enroll, students must have a 3.0 or higher GPA and receive permission from the counselor or principal.

CURRICULUM COURSE DESCRIPTION

Credit Key

5 credits =1 sem. course 10 credits =2 sem. course

5/10 credits =1 or 2 semester course

ART

Art courses are open to all students, grades 9-12. Any person wishing to explore his/her creative and expressive abilities is encouraged to register. Subject areas will include content from the four art disciplines: Art History, Production, Aesthetics, and Art Criticism.

The art curriculum consists of four Studio Art classes. All studio art classes will emphasize working with the elements of art and principles of design. Specific problems will be assigned and various media will be used. All studio classes will cover drawing, painting, printmaking, graphic design, pottery and sculpture.

These classes are designed for a full year of instruction so enrollment must be initiated at the beginning of the year.

STUDIO ART I (9-12) 10 credits
This course is open to any first year art student.

STUDIO ART II (10-12) 10 credits
Prerequisite - Successful completion of Studio Art I
This course is open to any second year art student.

STUDIO ART III (11-12) 10 credits
Prerequisite - Successful completion of Studio Art II
This course is open to any third year art student.

STUDIO ART IV (12) 10 credits
Prerequisite - Successful completion of Studio Art III
This course is open to any fourth year art student. This course may be taken as an independent study course. The instructor will work with the student on an-as-needed basis a

BUSINESS EDUCATION

BUSINESS APPLICATIONS (9-10) 5-10 credits
This technical course will begin with a review of the keyboard, followed by a concentration on word processing, spreadsheet applications, and presentations using Office 2007. Students will use the Internet on a daily basis and will design web pages using HTML. An introduction to digitools including: PDA's, handwriting tablets, I-pods, Movie Maker, and speech recognition will be included during the year. A brief unit on Access database will be included, time permitting.

ADVANCED BUSINESS APPLICATIONS (11 – 12) 5- 10 credits
Pre requisite – Business Applications
Advanced features and integration of the Office 2007 package.

BUSINESS EDUCATION – Continued

ACCOUNTING I (10-12)

10 credits

Accounting covers the financial cycles for businesses operated as a sole proprietorship, partnership, and corporation. Accounting is the language of business, and everyone needs the background & foundation for living successfully in today's business world.

ACCOUNTING II (11-12)

5/10 credits

This course will serve as a vehicle to expand accounting topics introduced in the first-year course with the following additions: departmentalized accounting, accounting control systems, and general accounting adjustments. This course will most likely be independent study.

INTRO. TO BUSINESS, MANAGEMENT, & MARKETING (10-12)

5/10 credits

This classes focuses on a student's role as a citizen, student, family member, consumer, and active participant in the business world. Students will study a variety of management techniques appropriate for today's marketplace. Current events, regulations, media influence, consumer influence and supply/demand are some of the factors studied in relation to an open-market economy.

BUSINESS LAW / ENTREPRENEURSHIP (10-12)

5 credits

This course examines the "why" and "what" of law. Specifically, students will study binding agreements, using credit, understanding business and personal law and protecting oneself from loss. These concepts will provide students opportunities to expand their legal vocabulary and improve decision-making skills. Students will design a business plan for starting and operating their own business.

PERSONAL FINANCE (10-12)

5 credits

Topics for the class will include: setting financial goals, adopting a spending and savings plan, learning about credit cards and debt, creating investment portfolios, selecting appropriate investments based on goals and investment tolerance, and using world economic information to guide investment decisions.

COMPUTER SCIENCE

COMPUTER APPLICATIONS (10-12)

5 credits

Prerequisite - Business Applications

This class will use the Apple Works for word processing, database, slide shows, Mailmerge, and spreadsheet. The history of computers, present technology, and thoughts for the future of computers will be covered. A digital camera and the scanner will be used for desktop publishing.

ADV. COMP. APPLICATIONS (12)

5 credits

Prerequisite - Any computer class

This class will develop presentations using a scanner, CD ROM, Camcorder, and a variety of software. The end of the school video is developed in this class and each student will make a CD.

COMPUTER SCIENCE – con't

COMPUTER I (10-12)

5 credits

Prerequisite - Business Applications and Algebra I

Students learn programming skills using the Turing language. It covers these topics: program formatting, data types, variable declaration, loops, keyboard and file input, conditional statements, arrays, cases, subroutines, sorting, graphics and music.

COMPUTER II (10-12)

5 credits

Prerequisite - Computer I

Computer II students cover Turing character manipulations, records and files, and advanced topics. If time allows True Basic is taught to build on the programming techniques developed in Turing. Libraries will be used to store and run programs.

COMPUTER III (11-12)

5/10 credits

AP COMPUTER SCIENCE (11-12)

10 credits

Prerequisite - Computer II

Computer III students use both Visual Basic, a quick review of basic programming skills, and the syntax for Visual Basic, then using the language to program solutions to problems. Students will also use graphics to design a final project of their choice. *This course can be taken as an AP course for college credit.*

COMPUTER IV (11-12)

5/10 credits

Prerequisite - Computer III

Students are allowed to choose the languages they wish to pursue. Those available are C++, visual basic, Java. They also work on team programming and contest programming.

MOVIE MAKING (11-12)

5 credits

Prerequisite – Instructor permission

Students will shoot video and develop movies. The movies will be of various types including demos, commercials, short features, and instructional videos. Students will use different editing techniques and add sound effects, music, animation, and titles. Students will store their movies on DVDs.

ESSENTIALS FOR LIFE & CAREERS

*** ESSENTIALS FOR CAREERS & LIFE (11)**

5 credits

This semester class is required for all juniors. The former Careers and Independent Living classes have been redesigned to help students meet the needs of young adults in society. The course is designed to help meet the challenges of daily living in the home, workplace, and in the community as well as reviewing requirements for graduation, taking 3 interest surveys, reviewing requirements for post-secondary education, and selecting a career major. Lab Fee assessed for sewing unit.

FAMILY & CONSUMER SCIENCE

FAMILY & CONSUMER SCIENCE I (9-10)

10 credits

This beginning course gives a comprehensive review of family and consumer skills. Basic food preparation and nutrition skills are developed. Units in consumerism, personal development, peer and family relations, and child development are included. Emphasis is placed on the family and developing practical reasoning skills.

FOODS AND NUTRITION I (10-12)

5 credits

This introductory foods and nutrition course covers the beginning basics of food preparation and nutrition education. The mypyramid.gov website will be used for the nutrition education component of the course. A dietary analysis of the students eating habits will be studied and evaluated using the mypyramid.gov diet tracker. Foods topics will cover kitchen safety and sanitation, proper preparation skills, and various foods labs. Labs will include, but are not limited to quick breads, eggs, fruit, baked goods, brunch, and grains. The students will also spend one day per week in the commercial kitchen of Auburn High School. While in the AHS kitchen, students will learn many aspects related to quantity foods preparation.

FOODS AND NUTRITION II (11-12)

5 credits

Prerequisite: Foods and Nutrition I

This foods and nutrition course will focus on more advanced skills in foods and nutrition. Nutritional studies will focus on nutrition through the life cycle and nutrition in relation to wellness and disease.

Meal management, table etiquette and food preparation techniques will be demonstrated and practiced by the student. Labs will include, but are not limited to yeast breads, casseroles, salads, vegetables, soup, meat, and pastry.

FAMILY RELATIONS (11-12)

5 credits

The course includes discovery of self, decision-making, family and peer relations, gender roles, communication, dating, engagement, love, marriage, sexuality, parenthood, family crises and death.

CREATIVE TEXTILE ARTS (10-12)

5 credits

THIS COURSE IS OFFERED ON ALTERNATING YEARS – 09/10, 11/12, 13/14

This project oriented course explores various uses of fabrics, threads, and fiber. Areas of study include, but are not limited to recycling and redesigning of fabric, textile projects for your home, multicultural influences on textiles and fiber, non traditional materials in place of fabrics, quilting techniques and design, yarn projects (crochet, knitting, etc.), cross stitch, embroidery, tie-dye, latch hook, etc. Students will be required to complete 5 fabric, thread, or fiber projects during the semester.

CHILD DEVELOPMENT (10-12)

5 credits

THIS COURSE IS OFFERED ON ALTERNATING YEARS – 08/09, 10/11, 12/13

This course is a study of child development from prenatal stage to adolescence. Students learn how the child develops physically, socially, emotionally, morally and intellectually. Students learn how to plan activities for the preschool child. Also included are units on discipline, play, and child care careers.

FOREIGN LANGUAGE

PRACTICAL SPANISH (9-12)

10 credits

Practical Spanish provides the foundation for understanding, reading, writing, and speaking the Spanish Language, but is less demanding than Spanish 1. Practical Spanish may NOT take Spanish 2 in subsequent years or use the course to satisfy college admission requirements. Spanish 1 and Practical Spanish students will share the same classroom, but the course expectations will be different. Spanish 1 is a more demanding course. Students who are considering taking Practical Spanish should consult with the Guidance Counselor or Instructor prior to enrolling in the course.

SPANISH 1 (College Prep Format)(9-12)(C)

10 credits

The Spanish 1 provides the foundation for understanding, reading writing, and speaking the Spanish language. This course is for students intending to take Spanish 2 in the future or to satisfy college admission requirements. You may take only Spanish 2 if you successfully complete this course.

SPANISH 2 (10-12)(C)

10 credits

Prerequisite - Spanish 1

In Spanish 2, students will refine the skills learned in the first year course, with greater emphasis placed on reading and speaking.

SPANISH 3 (10-12)(C)

10 credits

Prerequisite - Spanish 2 AND teacher permission

Major emphasis is placed on reading and speaking skills. As this course will be reserved for twelve advanced individuals, prospective students must receive the instructor's permission to join the class.

INDUSTRIAL TECHNOLOGY

IT COMMUNICATIONS & WOODWORKING (9-12)

10 credits

Students will be instructed in basic fundamentals of communications of ideas during the 1st semester. Project selection, working drawings, bills of materials, computer aided drawings, organization, and machine knowledge are the main emphasizes. During the 2nd semester, students learn the proper and safe use of power machines in the woodworking industry. Students will be required to complete a woodworking project demonstrating proper technique and safe working habits.

METAL & WELDING I (10-12)

10 credits

This class is a general study of different tools and machines used in metal fabrication. The basic areas of study will be arc welding, oxyacetylene welding, and Mig welding. Students will have the opportunity to use the following: Mig welder, metal lathes, milling machines, plasma arc cutters, grinders, band saws and a variety of metal hand tools.

ADVANCED WOODWORKING (10-12)

10 credits

Prerequisite – IT Communications & Woods

This course provides an opportunity to explore working with many different wood-manufacturing techniques. Students will be required to demonstrate proper organization and safe working habits that are a must in a woods shop. Students will learn and demonstrate advanced woodworking techniques and then incorporate them into a woodworking project. A mass production unit will also be taught.

INDUSTRIAL TECHNOLOGY – con't

VOCATIONAL CARPENTRY (12)

10 credits

Prerequisite – Advanced Woodworking

This is a skill-oriented class designed for students with an interest in the construction industry. Students will work in teams as they learn and use the basic techniques and procedures used in the construction of a residential structure. Students will also focus on the following course content areas: understanding and using terminology, using tools and safety practices, reading blue prints, designing site layouts, estimating costs, framing, completing exterior and interior finishing, and roofing.

LANGUAGE ARTS

***All 9th grade students must enroll in two semesters of an English 9 course.**

ENGLISH Bridges 9 (C)

10 credits

This English/reading curriculum focuses on common letter combinations and sounds needed to read fluently. Instruction also emphasizes recognition of words and their meaning. Placement in this course is determined by a reading achievement test and permission by the counselor.

ENGLISH 9 (C)

10 credits

This language arts course encompasses reading and analyzing literature, applying the Six Traits of Writing, and demonstrating good speaking skills. The standard five point format for writing essays and speeches will be practiced throughout the course. Students will use fundamental research skills to gather and organize pertinent information for informative and demonstrative speeches. Various literature genres will be covered, focusing on vocabulary skills and knowledge of literary elements.

*** All 10th grade students must choose 1 of the 2 following options.**

ENGLISH Mastery & Explorations 10 (C)

10 credits

ENGLISH 10 – STARS English (C)

5 credits

The goal of this course is to teach students to integrate information, via reading and writing. Research, study, and speaking skills will be taught as important parts of content learning. The STARS English course will teach/review the skills that are needed as students prepare for the Nebraska State Standards Exams. Placement in this class will be determined by a reading achievement test given during the 9th grade year.

ENGLISH 10 (C)

10 credits

READING 10

5 credits

Students will read and respond to a variety of text and create compositions that articulate connections between words studied and their own experiences. Advanced work in sentence structure, grammar, usage, and mechanics will be stressed. Students will apply speaking and listening skills to advance their understanding of persuasive arguments. The Reading 10 course will teach students to develop reading strategies that will enable them to process and comprehend a variety of texts. Placement will be determined by a reading achievement test given during the 9th grade year and/or by instructor permission.

LANGUAGE ARTS - continued

***All 11th grade students must enroll in two semesters of an American Literature/Composition course.**

AM. LIT. SURVEY/COMPOSITION 11(C)

10 credits

This basic American literature course focuses on reading and analyzing American literature as it relates to contemporary issues. Students will review the Six Traits of Writing skills and how to write a persuasive essay. Speech instruction and assignments will also be included in this course.

AM. LITERATURE/COMPOSITION 11(C)

10 credits

This course includes study of the philosophical, literary, and historical traditions that form the foundations of American literature. Students will review the Six Traits of Writing skills and how to write a persuasive essay. Speech instruction and assignments will also be included in this course. Dual credit for AHS & Peru State College is available if requirements are met.

*** All 12th grade students must enroll in two semesters of either World Literature or British Literature.**

WORLD LITERATURE AND COMP. (12)(C)

10 credits

In this course, students will review and learn basic English skills to enhance their ability to communicate. The major areas of focus will be reading literature from many countries, writing, which will include journals and weekly papers. A documented research paper is a requirement for graduation. This course also includes studies in reading, poetry, vocabulary, and public speaking. Several specialized units will be taught to prepare students to use English in their everyday lives.

BRIT. LIT. /COMPOSITION 12 (C)

10 credits

This course includes a survey of the major periods in British literature. The readings include poetry, short stories, and novels. After each reading, students will write a personal or researchable essay based on a major concept from the literature. A documented research paper is required for this class and graduation. Major components of these writing assignments will include citing sources, bibliographies, thesis statements, and outlines using MLA and APA formats.

JOURNALISM (12)

10 credits

Prerequisite - Instructor permission (Students enrolling in this class must fill out an application. The applications are available from the Journalism teacher or the Guidance Counselor.)

This course is for seniors who are interested in computer layout design and writing for the school yearbook. Students will become acquainted with journalistic writing, proofreading, and editing skills. The basics of digital photography are also covered. Prerequisite: Grade average of B or above in traditional English courses and with instructor's approval.

AHS NEWSPAPER (12)

10 credits

Prerequisite - Instructor permission (Students enrolling in this class must fill out an application. The applications are available from the Newspaper teacher or the Guidance Counselor.)

This class is responsible for the writing and producing of the AHS student newspaper, the athletic newsletter, and the community newsletter.

LANGUAGE ARTS - continued

DRAMA (9-12)

5 credits

The curriculum of the drama class focuses on communication through written, graphic, and performance work. The primary goal is to develop skills, which enable students to more effectively communicate their thoughts and feeling to others in various settings. The class will also cover some theatre history, play analysis, and technical theatre. Students are required to participate in the Play Production Contest (One Act Play) in December. The purpose of this course is to give every student the opportunity to be involved in a play production.

MATHEMATICS

APPLIED ALGEBRA I (9)

10 credits

This course includes an introduction into basic algebra. The class will cover topics such as properties of real numbers, solving linear equations, graphing linear equations and functions, writing linear equations, and solving and graphing linear inequalities. Students will use rulers, technology, and protractors.

ALGEBRA I (9-10) (C)

10 credits

A study of the mathematics is necessary for the student who will continue on in mathematics. Students who desire further competence in manipulative skills of mathematics may consider taking this course. Integers, rational and irrational numbers will be used in solving linear and quadratic equations. Polynomials, the coordinate system and common formulas and story problems will be studied.

APPLIED GEOMETRY (10)

10 credits

Prerequisite - Applied Algebra I or Instructor Permission

The applied geometry course emphasizes problem-solving applications. A laboratory approach is utilized in which students are involved in hands-on learning activities. Activities may include, but are not limited to, the use of calculators, drawing aids, and measuring equipment like rulers and protractors. The major goal of this course is to provide a learning environment that focuses on problem solving involving life experiences and critical thinking skills, in addition to the typical textbook problems. Skills necessary to become proficient or master the Nebraska STAR math standards will be acquired.

GEOMETRY (10) (C)

10 credits

Prerequisite - Algebra I or Instructor Permission

Students will learn geometric concepts by applying inductive and deductive reasoning, the process of observing data, recognizing patterns and making generalizations through conjectures. Geometric tools such as compass, protractor, straightedge and ruler are used almost daily. Learning teams are often formed to gather information. Topics covered include: geometric jargon, constructions, polygonal properties, congruence, similarity, circles, area, Pythagorean Theorem and proofs. Problem solving is heavily emphasized and algebra skills are reviewed.

MATHEMATICS – con't

APPLIED ALGEBRA II (10-12)

10 credits

Prerequisite - Applied Algebra I or Instructor Permission

The course will cover topics such as solving systems of equations, exponents, and exponential functions, quadratic equations and functions, polynomial equations and functions, rational equations and functions, and radicals. Students will use rulers and technology to assist them.

ALGEBRA 2 (11) (C)

10 credits

Prerequisite - Algebra I or Instructor Permission

A general review of beginning algebra is followed by a treatment of equations, polynomials, fractions, series and number sequence. The aim in problem solving is to develop the ability to analyze a quantitative situation or to express the relationship in algebraic language. May be taken concurrently with geometry.

PRE-CALCULUS (11-12) (C)

10 credits

Prerequisite - Geometry & Algebra II or Instructor Permission

Students will study topics related to trigonometry; right triangle geometry is heavily emphasized. The definitions of trigonometric functions are applied and analyzed. Graphing technology is applied and problem-solving skills are emphasized. Students will also study complex numbers, sets, combinations, counting techniques, probability, analytic geometry, solid geometry, and survey of ACT/SAT math problems. Algebraic manipulation skills will be reinforced. Technology will enable student to cover many topics. This class is designed to prepare students for work in advanced mathematics and science classes, particularly calculus.

CALCULUS I (12) (C)

10 credits

AP CALCULUS (12) (C)

Prerequisite - Pre-calculus or Instructor Permission

Students will learn how to apply concepts from previous math classes to solve a new class of problems. Mathematical topics will be covered so students learn the foundations of calculus. The course is designed for college-bound students who will be enrolling in math and/or science classes in college. The pace of the class will be similar to a college freshman-level math class. This class can be taken as dual credit or AP course.

AP STATISTICS (12) (C)

10 credits

Prerequisite - Instructor Permission

The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will be exposed to four broad conceptual themes:

- a) Exploring Data: Describing patterns and departures from patterns.
- b) Sampling and Experimentation: Planning and conducting a study.
- c) Anticipating Patterns: Exploring random phenomena using probability and simulation.
- d) Statistical Inference: Estimating population parameters and testing hypotheses.

Students who successfully complete the course and exam **may** receive credit, advanced placement, or both for a one-semester college statistics course.

MUSIC

INSTRUMENTAL (BAND)

10 credits

Instrumental music is a performance-based, multi-cultured fine art class. A requirement for this class is a musical instrument. Different styles of music are explored using these music modes: marching band, concert band, jazz band, small group ensembles and solos. Performances are given throughout the year. Attendance and participation in performances are required. An out-of-state competition performance may be scheduled each year.

VOCAL (CHOIR)

10 credits

Students in mixed Concert Choir will continue to develop vocal and fundamental singing and music reading skills begun in middle school. The choir learns a variety of styles of music. Performance techniques are taught through large and small group participation. Choir members are also eligible to audition for the Swing Choir. Choir performances include local concerts, District Music Concert and occasional out of town performances. Attendance and participation in performances are required.

PHYSICAL EDUCATION & HEALTH

***HEALTH / PHYSICAL EDUCATION 1**

10 credits

This is a required course that is designed to provide accurate information about the functioning of the human body and how to adequately protect it, physically and mentally, from health problems. A variety of physical activities are offered with emphasis on physical fitness and wellness

PE 2/BODY FITNESS (10-12)

5/10 credits

This class is open to students, grades 10-12, who are interested in developing physical conditioning and fitness with a strong emphasis on weight training. Each student will be advised on a weight program structured for her/his personal benefit. This program will be supplemented with aerobic exercise and stretching.

PE 3/ WELLNESS (10-12)

5/10 credits

This class is open to students who are interested in developing improving their fitness level. The four components of fitness will be stressed: cardio-respiratory endurance, muscular strength and endurance, flexibility, and body composition. Each student will develop an exercise plan to maintain a minimum level of fitness throughout life.

SCIENCE

(2.5 years required for graduation – must include biology, physical science or chemistry, and earth science - If students are able to demonstrate proficiency for all Nebraska Earth Science standards, the Earth Science requirement will be waived. Students who demonstrate proficiency in Earth Science must complete 20 science credits. Those students that do not test out of the Earth Science class will be required to complete the class by the end of their junior year.)

SCIENCE – con't

***BIOLOGY (9-10) (C)**

10 credits

Biology includes the basic principles involving the cell in plants and animals; cell structure and functions are studied. The course includes an insect collection, performing dissections, laboratory drawing, and experiments. Factors of human interest included are: genetics, ecology, plants, cells, animal behavior, environment, and conservation. Freshmen considering enrolling in this class should consult with the guidance counselor.

***PHYSICAL SCIENCE (9-10) (C)**

10 credits

This class will be open to students in grades 9-10 and may be taken to fulfill the physical science graduation requirement. Foundational chemistry and physics topics will be studied in this course. Great emphasis will be placed on work in the laboratory since students will explore science using a “hands on” approach. Students who have successfully completed biology should not register for this course.

EARTH SCIENCE (10-11)

5 credits

This course will cover all Earth Science topics including the Nebraska State Earth Science Standards. This will include concepts on the energy of the earth system, geochemical cycles of the earth, and the origin of planetary systems.

***CHEMISTRY (10-12) (C)**

10 credits

Prerequisites- Algebra II (with a C or better) or enrolled in Algebra II

All 10th grade students must acquire instructor permission to enroll.

Chemistry is the study of the compositions and reactions of chemicals. It involves atomic and molecular structures; calculating quantities of reactants required to produce a desired amount of chemical product; energy requirements; solid, liquid and gas behaviors; chemical bonding theories; the nature of acids and bases; and other chemical reaction topics. Laboratory experiments add to the excitement of learning chemistry.

ADVANCED CHEMISTRY (12) (C)

10 credits

Prerequisite: Chemistry and two years of math

Advanced Chem. involves such topics as rates of chemical reactions; chemical equilibrium; qualitative and quantitative analysis; oxidation and reduction reactions; electrochemistry; reaction of organic compounds and their synthesis. Many laboratory skills and techniques will be learned such as accurately measuring melting points; fractional distillation; fractional crystallization; spectrophotometry; chromatography, and titrations.

PHYSICS (12) (C)

10 credits

Prerequisites: Successful completion of Pre-Calculus or currently enrolled in Pre-Calculus.

Physics is the study of motion, forces, energy, heat, sound waves, light, optics, electricity, electronics, and nuclear reactions.

SCIENCE – con't

ADVANCED BIOLOGY (11-12) (C)

10 credits

Prerequisites: Successful completion of both semesters of Biology I (B average or better is recommended).

This course explores in detail the following topics: Review of basic principles of biology, human anatomy and physiology, and genetics. Students are strongly encouraged to either complete the course of chemistry first, or take chemistry at the same time as this class.

SOCIAL STUDIES

***WORLD CULTURES (9) (C)**

10 credits

This class will examine the interrelationship of geography and historical change in the world. Students will continually reference 8 recurring historical themes and the 5 themes found in geography as they examine the development of cultures.

***AMERICAN HISTORY (10) (C)**

10 credits

American History is a survey class that examines U.S. history from the Civil War Reconstruction to the present. Special emphasis is placed on significant periods, such as the Civil War Reconstruction, the Industrial Revolution, and the U.S. as a world power.

***AMERICAN GOVERNMENT (11 & 12) (C)**

5 credits

American Government is a single semester course with emphasis on the American political system. Attention is focused on the structure and relationship of the three branches of government at the national, state and local levels. The American democratic system is analyzed by comparing it to existing political and economic systems throughout the world.

PSYCHOLOGY (12) (C)

5 credits

Psychology is the human science that deals with the study of individual behavior and its predictability! Areas of concentration are: psychology as a science, motivation, emotion, personality, attitudes, and behavior both normal and abnormal.

CURRENT ISSUES (12) (C)

5/10 credits

Current Issues is an examination of social, political and economic condition in contemporary society. Equal emphasis will be placed on world, state and community affairs. Course structure will be based on class discussion coordinated with current newspapers, magazines, video materials, lectures and guest speakers.

CRIMINAL JUSTICE (12) (C)

5 credits

The study of criminal justice traditionally revolves around three main components of the criminal justice system: police, courts, and corrections. It also includes the study of crime as a social phenomenon, causes of crime, criminal behavior, and other aspects of crime.

SOCIAL STUDIES – con't

AP PSYCHOLOGY (12) (C)

5 credits

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfield within psychology. They also learn about the ethics and methods psychologists use in their science and practice.

OTHER ELECTIVES

FRESHMEN, SOPHOMORES, AND JUNIORS – You may choose one of the following two courses per semester:

- Study Hall
- Teacher Aide

SENIORS – First semester - You may have no more than two courses from the list of classes:

- Study Hall
- Peer Tutoring
- Teacher Aide
- Work/Career Explorations

Second semester you may add a 2nd period of work/career explorations to your schedule.

**Please check the individual requirements for each class. You must meet those requirements prior to signing up for any of the classes listed under other electives.

PEER TUTORING (11-12)

1 credit

Prerequisites: Minimum GPA of 2.5

Students will work at Calvert Elementary with one on one with other students assisting them with class work. Students may be assigned to the elementary or middle school to assist those students. Students are limited to 1 peer tutoring period a day.

WORK/CAREER EXPLORATIONS (Formerly Work Study)

Non-credit

Seniors may apply for approved work, study, or volunteer release experiences during the school day for 1 class period during first semester and 1-2 class periods during second semesters. Students must have a minimum GPA of 2.0 to apply for Work/Career Explorations. Permission to enroll for work/career explorations must be approved by the counselor or principal. Satisfactory progress in high school course work must be maintained during the semester of enrollment in order to continue participation in work/career explorations. Students who do not perform satisfactorily in their high school course work will be required to discontinue this educational experience and return the high school. Students must report to work a minimum of 4 days a week for the entire period to enroll/continue this program.

OTHER ELECTIVES – con't

STUDY HALL

Non-credit

Study Halls are built into the schedule to allow students time to work on homework or study for classes. Students should not sign up for a study hall unless it is needed. Students are expected to work on schoolwork during their study hall time. Students who abuse this privilege may be restricted to a particular classroom or removed from the study hall. A student may have only one study hall period per semester.

TEACHER AIDE

Non-credit

Students may request a teacher aide period to be built into their schedule. The student must have permission from the teacher prior to being granted the request. Aides are expected to help the teacher complete work assigned to them. Students may have only one teacher aide period per semester.

DRIVER EDUCATION

NON-CREDIT SUMMER COURSE

(Summer registration only)

1st session – May 26 - June 10

2nd session – June 10 - June 26

Driver education meets Nebraska Department of Motor Vehicle standards and is approved by the State of Nebraska. Students whom successfully complete this course will qualify for license testing waivers as provided by Title 247, Nebraska Code, Chapter 11. The cost of the class is estimated to be \$250 for resident students. The final cost will be determined at a later date by the Board of Education. There are additional charges for multiple repeated drive tests.