

CRAWFORD
HIGH SCHOOL
REGISTRATION
BOOKLET
2009-2010

TABLE OF CONTENTS

I. GENERAL INFORMATION

| | |
|--|---|
| A. High School Admission Requirements..... | 3 |
| B. Graduation Requirements..... | 3 |
| C. Planning a High School Program..... | 3 |
| D. Schedule Changes | 3 |
| E. Planning for College | 4 |
| F. Registration..... | 4 |

II. REGISTRATION INFORMATION

III. GENERAL CURRICULUM

| | |
|-------------------------------------|----|
| Art..... | 7 |
| Business..... | 5 |
| Careers..... | 6 |
| Computer Technology | 5 |
| Industrial Technology | 6 |
| Language Arts | 8 |
| Mathematics | 11 |
| Music..... | 13 |
| Other Course Offerings | 20 |
| Physical Education and Health | 13 |
| Science..... | 15 |
| Social Science | 17 |
| World Language | 10 |

I. GENERAL INFORMATION

A. HIGH SCHOOL ADMISSION REQUIREMENTS

Students will be classified in the Senior High according to grade, relative to the total number of hours that they have accumulated. Students who do not keep current with their original class will be classified in the proper grade according to class hours.

FRESHMAN (Grade 9) – 0-59 of high school credit hours

SOPHOMORE (Grade 10) – 60-119 hours of high school credit with 50 hours earned during the year

JUNIOR (Grade 11) – 120-179 hours of credit

SENIOR (Grade 12) – 180 hours of credit

B. GRADUATION REQUIREMENTS

All students must meet the following graduation requirements in order to receive a diploma from Crawford Public Schools:

1) All students must have a minimum of eight (8) semesters of attendance in high school. High school will be defined as attendance in grades nine (9) through twelve (12). A student must be scheduled for at least twenty-five (25) hours per semester to be considered a full-time student in Crawford Public Schools.

2) Crawford High School will issue the following types of certificates upon the completion of high school:

a) Diploma

Students earning a diploma must meet the following requirements. All students must have taken and passed at least 240 semester hours in grades nine (9) through twelve (12). The semester hours must be from the following categories:

Language Arts..... 40 hours

Social Science..... 30 hours

Science..... 30 hours

Mathematics..... 30 hours

Fine Arts–Practical Arts–Foreign Language

(The students should have a minimum of hours in combination of Fine Arts, Practical Arts, and/or Foreign Language or other core electives)

..... 70 hours

Technology..... 10 hours

Careers..... 10 hours

Health..... 10 hours

Physical Education..... 10 hours

Total... 240 hours

b) Certificate of Attendance

a. A Certificate of Attendance will be issued to any student who has completed eight (8) semesters of high school but has not met all of the requirements for a diploma.

b. Students receiving this certificate will not be entitled to receive a recommendation to any institution of higher education.

C. PLANNING A HIGH SCHOOL PROGRAM

Students should use the time during registration to confer with the counselor, teachers and parents. Hasty, last minute decisions are too frequently followed by requests for program changes. Students should keep a record of their courses satisfactorily completed and those yet to be taken. A similar record is kept in the counselor's office and may be reviewed at any time.

D. SCHEDULE CHANGES

Students needing schedule changes should notify the guidance counselor and principal. Schedule changes should be initiated by the teachers involved, the principal or guidance counselor, and students' parents. Final approval of all schedule changes will be made by the Principal only one week at the beginning of each semester.

E. PLANNING FOR COLLEGE

If a student plans to enter college at an NCAA Division II institution in 2013 or after, you will need to present 16 core courses in the following breakdown:

- 4 years of English
- 3 years of mathematics (Algebra I or higher)
- 2 years of natural/physical science (one must be a lab science)
- 1 year of additional English, math or science
- 2 years of social studies
- 4 years of additional core courses (from any area listed above, or from foreign language, nondoctrinal religion or philosophy)

4-year programs generally consider these criteria when reviewing your application for admission:

- Rigor (difficulty) of courses taken in high school
- Rank in class based upon your Grade Point Average
- College entrance exams: ACT or SAT
- Teacher and Counselor recommendations
- Activity record from school and community involvement

Preparation for Community and Technical College is similar. However, Community and Technical colleges often do not require ACT or SAT tests for acceptance. Students take a placement test after being accepted (please check with the specific college you plan to attend). You must prepare yourself for these programs by taking challenging courses that are focused on the skills you will need in your chosen area of study. In addition to computer skills, mechanical skills, and craftsmanship you may need math, biology, chemistry or physics in order to be prepared for your chosen technical field. All college learning requires workplace skills such as, self-discipline, punctuality, thoroughness, communication, and cooperation.

REGISTRATION

- The registration handbook is distributed and/or available online.
- Students must work with their parents and teachers to determine the best classes.
- Study carefully the graduation requirements.
- All Students must register for a minimum of eight (8) classes per semester.
- Check course specifics, i.e. pre-requisites, courses requiring permission.
- Repeat any required classes that were failed. See the counselor as soon as possible to make arrangements to make up the deficiency.
- Based on this preliminary information, a master schedule will be prepared. The number of sections will be determined, teachers will be assigned, and some courses may be canceled.

BUSINESS

INFORMATION PROCESSING

Credit: 5 hours
Offered: Semester 1
Open to: Grades 10, 11, 12
Prerequisite: None

A one-semester course that introduces the student to many different computer applications and skills the student will need throughout his/her high school career and beyond. Microsoft Office 2003 skills, including Word, Excel, Access and Power Point, will be heavily emphasized.

ACCOUNTING I

Credit: 10 hours
Offered: Full year
Open to: Grades 10, 11, 12
Prerequisite: An interest

Sign up for this one if you are planning a business career. Students will study the fundamental concepts of the accounting cycle and its application for business records through the use standard financial records common to all types of businesses using journals, ledgers, worksheets, and financial statements.

ACCOUNTING II

Credit: 10 hours
Offered: Full year
Open to: Grades 11, 12
Prerequisite: Accounting I

This class is designed for students who have had Accounting I and desire further instruction in the field of accounting. Students will expand on the principles studied in the previous year and explore the accounting system as it relates to the merchandising business.

COMPUTER TECHNOLOGY

TECHNOLOGY 9

Credit: 10 hours
Offered: Full Year
Open to: Grades 9
Prerequisite: Required

This course introduces the student to many different computer applications and skills the student will need throughout his/her high school career and beyond. Microsoft Office 2003 skills, including Word, Excel, Access and PowerPoint, will be heavily emphasized. Other skills to be covered include an introduction to various software applications as needed by other courses the students may take during high school, Internet usage, netiquette, computer hardware, and integrated assignments from other courses into the computer applications course.

VISUAL PRODUCTION

Credit: 5 hours
Offered: Semester 1 & 2
Open to: Grades 10 - 12
Prerequisite: An interest

This is an exploratory course in the study of computers and technology. Students will learn how to utilize computers and technology to develop presentations, manipulate photographs, and create video productions. This is based on mixed teaching media including text and computer based study.

CAREERS

CAREERS 11

| | |
|---------------|------------|
| Credit: | 5 hours |
| Offered: | Semester 2 |
| Open to: | Grade 11 |
| Prerequisite: | None |

Students will explore career options through interest, aptitude and interest inventories. They will also spend time researching various colleges and college preparatory work including application information, financial aid information, and scholarship information. They will also do some work related skills such as filling out applications and writing resumes. Students will save this information to their portfolio.

SENIOR SEMINAR

| | |
|---------------|------------|
| Credit: | 5 hours |
| Offered: | Semester 1 |
| Open to: | Grade 12 |
| Prerequisite: | None |

Students will research and complete college applications, scholarship information, and financial aid information. Students will also finalize their high school portfolio. Students will also be exposed to life skills curriculum.

INDUSTRIAL TECHNOLOGY

BEGINNING WOODS

| | |
|---------------|--|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | 9 th – 12 th grade |
| Prerequisite: | An interest |

This is an introductory woods class where you will learn about the basic principles of project design, machine operation, and hand tool use. Students will have the opportunity to learn the processes through a series of small to medium sized projects.

FURNITURE AND CABINET MAKING

| | |
|---------------|-----------------|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grades 10 - 12 |
| Prerequisite: | Beginning woods |

Students must have taken one year of beginning woodworking. Students will explore the different methods of constructing furniture and cabinets. This class is a yearlong course where students will construct one large project.

MECHANICAL DRAFTING

| | |
|---------------|--|
| Credit: | 10 hours |
| Offered: | Semester 1 |
| Open to: | 9 th – 12 th grade |
| Prerequisite: | An interest |

Students will use their computers with Autodesk Inventor software to create solid 3D models of parts. Parts can be put together and tested to see how mechanical devices operate. Different types of 2D drawings will also be created. This is a semester long course.

ARCHITECTURAL DRAFTING

Credit: 10 hours
Offered: Semester 2
Open to: 10th – 12th grade
Prerequisite: None

This course is for those interested in the field of architecture, carpentry, interior decorating, engineering , or for anyone interested in designing their own home. Students will use their computer along with Autodesk Revit software to create a working set of home plans.

BUILDING CONSTRUCTION

Credit: 10 hours
Offered: Full year
Open to: 10th – 12th grade
Prerequisite: None

Students will be exposed to many different trades in the field of carpentry. The different fields include framing, concrete work, drywall, plumbing, residential wiring and roofing. Many times in this class students will work away from school on various projects around the school and community.

WELDING

Credit: 5 hours
Offered: 1st & 2nd semester
Open to: 9th – 12th grade
Prerequisite: None

Students will learn to weld with MIG and SMAW processes. Plasma arc and oxygen-acetylene cutting processes will be covered. Students will have time towards the end of the semester to create projects using their welding knowledge. This is a semester long class.

SMALL ENGINES

Credit: 5 hours
Offered: 2nd semester
Open to: 9th – 12th grade
Prerequisite: None

Students will compare the differences between 2 and 4 cycle engines while learning about the internal combustion engine. During the second half of the semester students will construct go-carts that will be entered into the high-mileage race at Chadron State College.

ART

INTRO TO ART

Credit: 10 hours
Offered: Semester 1 & 2
Open to: Grades 9, 10, 11, 12
Prerequisite: An interest

Intro to Art is open to all students interested in Art. The class introduces drawing and painting strategies for both beginners and for more experienced artists. Projects focus on introducing new techniques and on basic color theory and color mixing to enable student to become more inventive and original in their work. Calligraphy and graphic design are also introduced. A wide variety of subject matter and styles are explored, ranging from realistic to abstract.

LANGUAGE ARTS

ENGLISH 9

| | |
|---------------|-----------------|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grade 9 |
| Prerequisite: | Grade 8 English |

This class teaches various forms of writing. Standard grammar usage is emphasized. The research project is a 6-8 week project that will prepare students for research in other high school classes. Literature units include short stories, classic and modern novels, and mythology. Non-fiction reading is also a part of this course. Listening and speaking skills are developed through presentations, and formal speeches. Throughout the year, course work will prepare students for future success in the English course requirements.

ENGLISH 10

| | |
|---------------|-----------|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grade 10 |
| Prerequisite: | English 9 |

In this course students will concentrate on the four areas of language arts - reading, writing, speaking, and listening. They will study short stories, novels, plays, and poetry. Emphasis will be placed on the discussion of structure, theme, plot, characters, and setting. The basics of writing and grammar will be taught. A full research paper will be completed. Students will also study the elements of public speaking including both speech preparation and presentation. In addition, students will study vocabulary each week.

CREATIVE WRITING

| | |
|---------------|---|
| Credit: | 5 hours |
| Offered: | 1 st or 2 nd semester |
| Open to: | Grades 10 -12 |
| Prerequisite: | None |

This course is designed to meet the needs of students who are interested in writing original compositions. Folktales, poetry and drama will be the genres utilized for writing development.

ADVANCED WRITING

| | |
|---------------|---|
| Credit: | 5 hours |
| Offered: | 1 st or 2 nd semester |
| Open to: | Grades 11& 12 |
| Prerequisite: | None |

This is a college preparatory class with a major emphasis on non-fiction writing skills. Students will gain experience in organizing, expressing, and supporting their ideas through essays, research papers, and persuasive essays. Grammar, usage, and vocabulary will be studied to prepare for the ACT test and to improve writing skills. This course is strongly recommended for college bound students with good English skills.

TECHNICAL READING AND WRITING

| | |
|---------------|----------------|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grades 11 & 12 |
| Prerequisite: | None |

This course is designed to develop technical reading and writing skills. Students will practice job-related composition skills including filling out applications, writing resumes and business letters. They will also study grammar and vocabulary to improve reading and writing skills.

SPEECH/DRAMA

Credit: 5 hours
Offered: 1st or 2nd semester
Open to: Grades 10 -12
Prerequisite: None

This course is designed for students interested in performing arts. Students will develop their abilities to interpret and analyze drama through discussion, acting, and composition. Techniques and tools used to make dramatic literature come alive on stage will be discussed. Students will also study and practice the basic types of speeches.

GREAT NOVELS

Credit: 10 hours
Offered: Full year
Open to: Grades 9 – 12
Prerequisite: None

Students will study novels that may include Beowulf, Odyssey, The Great Gatsby, Angela's Ashes, To Kill a Mockingbird, and the Picture of Dorian Grey. Students will also study and apply several different approaches to the interpretation and analysis of literature.

TEEN LITERATURE

Credit: 10 hours
Offered: Full year
Open to: Grades 9 -12
Prerequisite: None

Students will study modern novels to intrigue the reader. Students will study and apply several different approaches to the interpretation and analysis of literature.

JOURNALISM

Credit: 5 hrs
Offered: Semester 1 & 2
Open to: Grades 11 & 12
Prerequisite: English 10

Students will study newsgathering and news writing. Students will also study newspaper production. Much of the class will be conducted in a writing workshop format with students submitting writing samples to meet frequent deadlines. Peer and self-critique will be used during the revision stage to improve writing quality. Writing and grammar lessons will be added on an as-needed basis. This course is a good opportunity for students who want to get additional writing practice and instruction. The course also provides students an outlet for publishing.

HUMANITIES (LANGUAGE ARTS CREDIT)

Credit: 5 hours
Offered: Semester 1 & 2
Open to: Grades 10 -12
Prerequisite: None

This course will study various literary genres including folktales, poetry, drama and short stories. The study will focus on the cultural expressions of past societies for the purpose of understanding how they have shaped our thought and values today.

WORLD LANGUAGE

SPANISH I

| | |
|---------------|----------------------|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grades 9, 10, 11, 12 |
| Prerequisite: | An interest |

Spanish I is a challenging foundation course with an emphasis on acquiring a basic vocabulary and enough knowledge of grammar and verb conjugation to be able to read and write simple passages and to participate in simple conversations. The customs of Spanish-speaking countries are also studied to develop an awareness of and appreciation for other cultures. If possible we will do some of our work on computers.

Homework: practice, vocabulary, studying, research. Students are required to bring a binder for handouts.

SPANISH II

| | |
|---------------|--------------------------------|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grades 10, 11, 12 |
| Prerequisite: | Spanish I or similar knowledge |

Spanish II is a continuation of Spanish I with written and oral expression at an average level of difficulty. Articles and short stories by Spanish authors will be read. The study of history, geography, and culture of Spanish speaking countries will be continued.

Vocabulary and conjugation of verbs should double, including past and future tense, and students should be able to converse and write Spanish with some ease and fluency. If possible we will do some of our work on computers.

Homework: Practice, vocabulary, studying, research.

(Note: Two years of the same foreign language are required for admission into many four-year post secondary institutions.)

SPANISH III

| | |
|---------------|---|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grades 11, 12 |
| Prerequisite: | Spanish II or placement of the instructor |

Spanish III is a continuation of Spanish II using a textbook written in the Spanish language covering grammar and selected readings.

Verb study will include compound tenses and introduction to the subjunctive mood. The study of history, geography and culture of Spanish speaking countries will continue. Homework: Practice, vocabulary, studying, research.

SPANISH IV

| | |
|---------------|--|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grade 12 |
| Prerequisite: | Spanish III and approval of instructor |

Spanish IV is a continuation of Spanish III with emphasis on using Spanish grammar and verb tenses for expression. This class includes an introduction to selected literature from Spanish language authors. It will continue the study of the history, geography and culture of Spanish speaking countries.

Homework: Practice, vocabulary, studying, research

Math

PRE-ALGEBRA

| | |
|---------------|----------------------|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grades 7 – 12 |
| Prerequisite: | Teacher's permission |

This is a course designed to present a logical development as an introductory course to algebra that emphasizes basic concepts and skills and fundamental operations. Increased emphasis is placed on such topics as the use of integers, equations, inequalities, graphing, and applications to problem solving. Additional topics include but are not limited to order of operations, problem solving, numerical and algebraic expressions, relations, integers, absolute value, the distributive property, equations, powers, exponents, rational numbers, fractions, decimals, percents, ratios, proportions, inequalities, functions, linear equations, slope, intercepts, and coordinate graphing.

BEGINNING ALGEBRA

| | |
|---------------|---|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grades 8 - 12 |
| Prerequisite: | Pre-algebra or special permission from instructor |

This an organization of mathematics subject matter concerned primarily with introductory study of properties of number systems. Topics studied include algebraic expressions and symbols, operations of real numbers, binomials, absolute value, proofs, and functions.

ALGEBRA EXTENDED I

| | |
|---------------|--------------|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grades 9 -12 |
| Prerequisite: | None |

The first half of the algebra I curriculum taught at a slower pace than the college prep course. This is an organization of mathematics subject matter concerned primarily with introductory study of properties of number systems. Topics studied include algebraic expressions and symbols, operations of real numbers, binomials, absolute value, proofs, and functions.

ALGEBRA EXTENDED II

| | |
|---------------|--------------------|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grades 10 – 12 |
| Prerequisite: | Algebra Extended I |

The second half of the algebra I curriculum taught at a slower pace than the college prep course. This is an organization of mathematics subject matter concerned primarily with introductory study of properties of number systems. Topics studied include algebraic expressions and symbols, operations of real numbers, binomials, absolute value, proofs, and functions.

GEOMETRY

| | |
|---------------|---|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grades 9 - 12 |
| Prerequisite: | Algebra I or special permission from instructor |

This course is concerned with geometric figures in the plane and in space. Geometry emphasizes the use of logic in establishing proofs.

ADVANCED ALGEBRA

Credit: 10 hours
Offered: Full year
Open to: Grades 10 - 12
Prerequisite: Algebra I & Geometry

Course includes graphing in two dimensions, set notations, polynomials, exponential notation and operations with exponents, complex numbers, continuous functions, and matrices.

TRIGONOMETRY

Credit: 10 hours
Offered: Full year
Open to: Grades 11 & 12
Prerequisite: Algebra II

Students in this course will study the relationship between right triangles and circular functions, graphing, vectors, trigonometric relations and identities, analytic geometry, complex numbers, polar coordinates and other advanced topics.

ADVANCED MATH with Pre-Calculus, Discrete Math, and Data Analysis.

Credit: 10 hours
Offered: Full year
Open to: Grades 11 & 12
Prerequisite: 3 years of college prep math and special permission from the instructor

An integrated body of selected aspects of algebra, trigonometry, and analytical geometry.

STATISTICS

Credit: 10 hours
Offered: Full year
Open to: Grades 11 & 12
Prerequisite: 2 years of college preparatory math and special permission from the instructor

Students in this course will study organization and presentation of data, central tendency, elementary and binomial probability, normal distributions, estimation, hypothesis testing, correlation and regression.

GENERAL MATH

Credit: 10 hours
Offered: Full year
Open to: Grade 9
Prerequisite: None

This class offers a comprehensive coverage of basic math skills needed for everyday living. It will help prepare students with the life skills needed for independent living.

BUSINESS MATH

Credit: 10 hours
Offered: Full year
Open to: Grade 12
Prerequisite: None

This class will teach students the mathematical and critical thinking skills that will help them be a better shopper, informed citizen, and a valued employee.

MUSIC

CONCERT BAND

| | |
|---------------|----------------|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grades 9 -12 |
| Prerequisite: | 8th grade band |

Eligible students will rehearse during the scheduled period each day for entire school year to obtain full credit. Students are given the opportunity to perform wide variety of musical styles. Students will participate in concerts, and be available to perform in activities such as marching, pep band, solo and ensemble contests. **Students have their own instrument or pay a school rental fee.**

CONCERT CHOIR

| | |
|---------------|--------------|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grades 9 -12 |
| Prerequisite: | An interest |

Students will rehearse during scheduled periods during the week and will also be required to attend all concerts, special rehearsals, and large group festivals. Students in this class will work toward excellent singing technique, music reading, and music knowledge.

PHYSICAL EDUCATION AND HEALTH

9TH GRADE PHYSICAL EDUCATION

| | |
|---------------|-----------|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grade 9 |
| Prerequisite: | Required |

. Emphasis is on skills that can be learned and carried over in a lifetime of healthy living. Activities include soccer, flag football, volleyball, basketball, swimming, badminton, pickle ball, floor hockey, weight training, goal setting, fitness planning and testing, tennis, softball, golf, and track n' field. Students will be graded on daily participation, skill tests on technique, written tests, and homework assignments.

10TH GRADE HEALTH

| | |
|---------------|-----------|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grade 10 |
| Prerequisite: | Required |

The curriculum emphasis is on skills that can be learned and carried over for a lifetime of healthy living. Major units covered include, but are not limited to: personal fitness, nutrition, self-care, environmental health, responsible decision making in regards to drugs/alcohol/tobacco and responsible decision making concerning sexual, family, and current health issues.

ADVANCED PE

| | |
|---------------|---------------------------|
| Credit: | 5 hours |
| Offered: | Semester 1 and Semester 2 |
| Open to: | Grades 10 - 12 |
| Prerequisite: | None |

Advanced physical education: Course content includes team, individual, and recreational units along with emphasis on physical fitness and wellness.

WEIGHTS

Credit: 5 hours
Offered: 1st & 2nd semester
Open to: 9th & 10th grade
Prerequisite: None

This is a basic weight training course in which principles of weight training are discussed and applied to provide a foundation of total body strength and muscle tone either as an end in itself or in preparation for specialization. Basic knowledge relevant to the physiology of strength, muscle power, size and endurance are considered with respect to methods of achieving specific goals. Specialization is permitted at this level after 8 weeks of the basic program.

ADVANCED FITNESS

Credits: 5 hours
Offered: 1st & 2nd semester
Open to: 11th & 12th grade
Prerequisite: Permission from instructor

This course focuses on the main components of health-related fitness: cardiovascular endurance, muscular strength and endurance, flexibility, and body composition. Topics including health-related fitness, nutrition, stress management, injury prevention, and the goal setting process are covered to enhance the students' awareness, knowledge and ability to make healthy choices.

LIFETIME FITNESS

Credit: 5 hours
Offered: 1st & 2nd semester
Open to: 10th – 12th grade
Prerequisite: None

Team sports are not emphasized, and only those with carry-over value as lifetime activities are offered. Improved fitness is a goal of each *Lifestyle Activities* course. Examples of activities which may be included, but not limited to, are golf, archery, bowling, weight training and conditioning, aerobics, walking, jogging, climbing, disc golf, tennis, disc football with no more than six members per team, in-line skating, biking, fishing, martial arts, and aquatics. Physical fitness and proper nutrition are emphasized as necessary for maintaining good health throughout life, and physical activity is taught as a means of reducing stress. Assigned reading and writing assignments, which include activity journals and/or portfolios, broaden the physical education experience and contribute to the literacy of students.

SCIENCE

9TH GRADE PHYSICAL SCIENCE

| | |
|---------------|-----------|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grade 9 |
| Prerequisite: | Required |

Students will be learning materials pertaining to the subjects of physics and chemistry. Various concepts, regarding matter and energy will be introduced using various methods of instruction. An active approach to student learning will be emphasized throughout the course, as students will be encouraged to stay engaged in all class activities. A passing grade for both semesters is required for high school graduation.

BIOLOGY I

| | |
|---------------|-------------------|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grades 10, 11, 12 |
| Prerequisite: | Required |

The science of life and of living organisms, including their structure, function, growth, theories of origin, and distribution. It includes botany, zoology, and microbiology and all their subdivisions. This is a required course and will serve as a prerequisite to Anatomy & Physiology and Genetics.

ANATOMY and PHYSIOLOGY

| | |
|---------------|---|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grades 11 or 12 |
| Prerequisite: | Biology 1 (passed with a "B" or better) |

If your major interest is in biology, or you are college-bound, this class is for you! Students will study physiology as well as the gross, living, and clinical anatomy of each organ system of the body. Fetal pigs will be utilized. This course is designed for students who plan on being a Biology major or entering the health professions.

COLLEGE-PREP CHEMISTRY

| | |
|---------------|---|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grades 11 or 12 |
| Prerequisite: | Must be taking or have taken Algebra II |

Chemistry is a college-preparatory year-long course that analyzes the structure and properties of matter. Students will learn how atomic structure relates to the macroscopic properties of matter. Students will become very familiar with using the periodic table, writing chemical formulas, and analyzing chemical equations. Students will apply stoichiometric concepts to chemical equations, as well as discovering the properties of acids and bases. A large portion of this class involves doing lab work and communicating the results of that lab work. Therefore, students must be prepared to write lab reports. Students should also be prepared to read nightly assignments, take daily quizzes, and use math skills to solve problems.

COLLEGE-PREP PHYSICS

| | |
|---------------|--|
| Credit: | 10 hours |
| Offered: | Full year |
| Open to: | Grade 11 or 12 |
| Prerequisite: | Algebra II (passed with a "B" or higher) or special permission from instructor |

Physics is a college-preparatory year-long course that focuses around the concepts of motion, force, energy, electricity, magnetism, thermodynamics, sound, and waves. Projects, labs, and problems will be an important part of this class. Students must be prepared to use math and problem-solving skills.

METEROLOGY/OCEANOGRAPHY

Credit: 5 hours
Offered: 1st or 2nd semester
Open to: Grade 11 or 12
Prerequisite: None

This class will communicate the basics of the subject of oceanography, of course, but more importantly, it will make you more aware of the principles that control the physical world around you. Understanding how the earth-atmosphere-ocean system functions will give you the background to deal with real-world problems such as coastline management (including hurricane damage), the occurrence and prediction of earthquakes and volcanic hazards, global warming and its consequences, ozone destruction, ocean pollution (including tanker spills), how to blame almost everything bad in your life on "El Niño", and similar topics.

ASTRONOMY

Credit: 5 hours
Offered: 1st or 2nd semester
Open to: Grades 10 -12
Prerequisite: None

This class involves the study of the moon, stars, and other objects in space. We will discuss the relationship between the sun, the Earth, and the moon. We will also discuss the formation of our solar system, galaxies, stars, and the universe. If possible, this class will spend some time observing constellations.

GEOLOGY

Credit: 5 hours
Offered: 1st or 2nd semester
Open to: Grades 10 – 12
Prerequisite: None

This class will study the earth and the processes that helped to form it. We will study rocks and minerals, how weathering and erosion have changed Earth's landscape, how plate tectonics changes the position of the continents and oceans, how volcanoes and earthquakes affect the earth, and how the discovery of certain fossils have shaped the history of the earth.

NATURAL RESOURCES/WILDLIFE MANAGEMENT

Credit: 5 hours
Offered: 1st or 2nd semester
Open to: Grades 10 -12
Prerequisite: None

Application of scientific knowledge and technical skills to protect, preserve, conserve, limit, enhance, or extend the value of wildlife and its habitat. Some field and laboratory techniques for studying, evaluating, and managing wildlife and their habitats will be described and demonstrated.

ECOLOGY

Credits: 5 hours
Offered: 1st or 2nd semester
Open to: Grades 10 – 12
Prerequisite: None

Interactions of living organisms with each other and with their environment, including Population Biology and the factors that influence the distribution and abundance of organismal populations.

GENETICS

Credits: 5 hours
Offered: 1st or 2nd semester
Open to: Grades 11 & 12
Prerequisite: Biology I (passed with a "B" or better)

Transmission of traits from generation to generation, including Mendelian, molecular, and population genetics.

HLTH 1060 MEDICAL TERMINOLOGY (college course)

Credit: 5 hours
Offered: Semester 1
Open to: Grades 11 or 12
Prerequisite: Biology passed with a "B" or higher and must take College entrance exam (Compass test)

This is a semester-long course that gives the student a basic knowledge of medical terms used in the health professions. The format presents terminology within the context of root words and use of prefixes and suffixes. It is designed to stimulate the student thinking process including proper use and pronunciation of medical terms.

LPNR 1110 BODY STRUCTURE AND FUNCTION (college course)

Credit: 5 hours
Offered: Semester 2
Open to: Grades 11 or 12
Prerequisite: Biology passed with a "B" or higher and must take College entrance exam (Compass test)

This is a semester-long course that gives students planning to enter the medical profession a working knowledge of body structure and function from the body to cell to each of the body systems.

HORTICULTURE

Credit: 5 hours
Offered: Semester 1 or 2
Open to: Grades 11 & 12
Prerequisite: None

The green industry continues to show strong demand for interested individuals with a horticulture background. Whether you're exploring a career option or simply want to have a class that works outside a lot you'll enjoy this class. Expect a lot of opportunity to work on projects. You will also get a chance to explore hydroponics.

SOCIAL SCIENCE

AMERICAN HISTORY

Credit: 10 hours
Offered: Full year
Open to: Grades 9-12
Prerequisite: Required

American History is a chronological study of U.S. History from early Native Americans to the present.

WORLD HISTORY

Credit: 10 hours
Offered: Full year
Open to: Grades 9 -12
Prerequisite: None

This class will help students understand the major development in world civilizations. Students will study World History from earliest man to the great empires of learning and the societies of the past. Students will also examine the increasing interactions among nations and civilizations that have shaped much of our human life.

20TH CENTURY HISTORY

Credit: 10 hours
Offered: Full year
Open to: Grades 9 – 12
Prerequisite: None

An in-depth study of 20th Century American History.

AMERICAN GOVERNMENT 11

Credit: 10 hours
Offered: Full year
Open to: Grade 11
Prerequisite: Required

This required 11th grade course is designed to teach students about the institutions of government. Democracy, federalism, civil rights, politics, current events with government, and constitutional interpretation are the main topics. This textbook features Time Magazine as an on-line source. Internet activities, videos that deal with government issues and focus on presidents are also included.

WORLD GEOGRAPHY

Credit: 10 hours
Offered: Full year
Open to: Grades 9 -12
Prerequisite: None

This class is designed to teach students about the physical geography of the world. Also studied are cultural aspects of society including history, customs and religion. National Geographic is used throughout this class in video, readings and on-line study sources. Students will have maps, projects and presentations on assigned topics throughout the world.

CURRENT EVENTS

Credit: 5 hours
Offered: 1st and 2nd semester
Open to: 9th – 12th grade
Prerequisite: None

This class is designed to keep students informed about the world of events. Up-Front Magazine is the textbook for this class. We discuss news stories, take quizzes, and do weekly reports on assigned topic areas. We use the internet mostly and have daily news updates. Specialized subjects are also studied in this class for example, advertising, current subjects done by National Geographic, The History Channel and the Discovery Channel.

HOLOCAUST STUDIES

Credit: 5 hours
Offered: 1st or 2nd semester
Open to: 9th – 12th grade
Prerequisite: None

A study of the Holocaust during WWII. Course begins with the study of Judaism, history of anti-Semitism, and European History. Concentration camps, psychology of the Holocaust, And the lasting effects on survivors, their children and humanity as well. Use of videos, handouts, novels and projects are in this class curriculum.

STREET LAW

Credit: 5 hours
Offered: 1st or 2nd semester
Open to: 9th – 12th grade
Prerequisite: None

This class is designed to prepare students for laws that are used daily. The course covers business law, criminal, civil law, consumer laws and property ownership. Also taught is the judicial system used in the United States and around the world. This class also does a mock trial and case presentations. American Justice videos are used to discuss and describe certain cases. Current court cases are also tracked and studied.

HUMANISTICS STUDIES I

Credit: 5 hours
Offered: 1st semester
Open to: 9th – 12th grade
Prerequisite: None

Philosophy and Religion: What does it mean to be human? Why are we here? We will study of creation myths around the world, through life and death rituals. We never will really be able to answer those questions, but we can offer clues to allow students reflect.

HUMANISTIC STUDIES II

Credit: 5 hours
Offered: 2nd semester
Open to: 9th – 12th grade
Prerequisite: None

Two Topics will be studied: 1) **Art of Film:** Classic films through the decades. The history of film and the development of this media. Independent films will be studied as well. Also included could be an opportunity to produce a small motion picture with the use of the school's computers. 2) **Art History:** We will study the history of visual arts of painting, sculpture and architecture. History will be divided into art eras such as Greek, medieval, Renaissance, Eastern and Western Art, modern and contemporary. The class will discuss controversies, trends, possible field trips to art shows. The student will plan a virtual art show using the computer technology. Video biographies and video tours are also included.

ECONOMICS

Credit: 5 hours
Offered: Semester 1 or 2
Open to: Grade 11 or 12
Prerequisite: None

Economics is the study of how people coordinate their unlimited wants and needs against their limited resources. Students also become aware of current economic issues as well as decision-making.

INTRODUCTION TO PSYCHOLOGY

Credit: 5 hours
Offered: Semester 1
Open to: Grades 10 - 12
Prerequisite: None

Psychology is the study of human behavior. The intent of this course is to help you better understand yourself and the behavior of others. Units in psychology include sensation/perception, learning/memory, motivation/emotion, and states of consciousness. Research and experiments are included. This course is recommended for all students interested in human behavior and particularly those who are planning on going to college.

SOCIOLOGY

Credit: 1 hours
Offered: Semester 1 or 2
Open to: Grade 11 & 12
Prerequisite: None

Sociology is the study of human group behavior. Students will study introductory vocabulary and theories. Student will also complete in-depth units on social class, adult issues and crime. Recommended for students going on to college.

Nebraska College of Technical Agriculture at Curtis, NE

Crawford High School was awarded a Career Education Partnership Grant for the 2009-2010 school year. As part of this grant Crawford students may take classes for dual-credit at NCTA. All of these courses are offered in an on-line learning environment. You must have permission from your high school counselor and principal to register for these classes.

Courses offered in the Fall of 2009 include:

Animal Management
Nutrition (livestock)
Crop Science
Horticulture Science
Sales Communication
Animal Care
Intro to Vet Office
Canine & Feline Nutrition
Radiation Safety
Pain Management
Concepts in Biting
Anatomy & Physiology
Microeconomics
Medical Terminology

Courses offered in Spring 2010 are yet to be determined but will be similar.

NEVA Courses 2009

NEVA courses are classes offered through ESU#13 in Scottsbluff. These courses are all offered in an online learning environment. Students must have special permission from your high school counselor and principal to register.

The following courses will be offered in 2009:

English 9 & 10
Physical Science
Biology
World History
US History
Algebra I
Physics

Distance Learning Courses

Distance learning courses are offered through various schools throughout the ESU #13 region. These courses are taught by an off-site teacher and may also involve an online learning component.

The following courses will be offered in 2009 -2010. There may also be other classes please see your high school counselor if interested.

Ag Business
Equine Science
College Algebra
Music Appreciation
Art History/Appreciation

There may be opportunities to take other electives for college credit through various colleges. Please see your counselor for more information.