

*Johnson County Central  
High School  
Registration Handbook*

**JCC**

*“Home of the Thunderbirds”*

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## LIST OF COURSE OFFERINGS

This summary is for your use in planning your registration. For more complete information about courses, see course descriptions starting on page 8.

<u>CURRICULUM AREA</u>	<u>REQ/ELECTIVE/GRADE</u>	<u>OFFERED</u>	<u>CREDITS</u>
<b>ACADEMIC DECATHLON</b>	Elective 9-10-11-12	Full Year	10
<b>AGRICULTURE</b>			
Advanced Agricultural Studies (FFA)	Elective 11-12	Full Year	10
Intro to Agricultural, Food and Natural Resources	Elective 9-10-11-12	Full Year	10
Animal Science	Elective 10-11-12	1 <sup>st</sup> Semester Only	5
Veterinary Science	Elective 10-11-12	2 <sup>nd</sup> Semester Only	5
Food Science and Safety	Elective 10-11-12	1 <sup>st</sup> Semester Only	5
Food Products and Technology	Elective 10-11-12	2 <sup>nd</sup> Semester Only	5
<b>BUSINESS EDUCATION</b>			
Introduction to Business	Elective 9-10-11-12	Full Year	10
Information Technology Applications	Elective 9-10-11-12	Full Year	10
Accounting	Elective 10-11-12	Full Year	10
Advanced Accounting	Elective 11-12	Full Year	10
Management	Elective 10-11-12	Full Year	10
Marketing	Elective 10-11-12	Full Year	10
Personal Finance	Elective 10-11-12	Full Year	10
Business Law	Elective 9-10-11-12	Full Year	10
<b>CAREER EDUCATION</b>			
CNA	Elective 11-12	1 <sup>st</sup> Semester only	0
Basic Medical Terminology	Elective 11-12	One Semester	5
Comprehensive Medical Terminology	Elective 11-12	One Semester	5
Intro to Education	Elective 11-12	One Semester	5
Experience in Teaching	Elective 11-12	One Semester	5
<b>COMPUTERS</b>			
Coding	Elective 11-12	Full Year	10
<b>DRIVER EDUCATION</b>	Elective 9-10-11-12	Summer	5
<b>FINE ARTS</b>			
Art I	Elective 9-10-11-12	Full Year	10
Art II	Elective 10-11-12	Full Year	10
Art III	Elective 11-12	Full Year	10
Art IV	Elective 12	Full Year	10
Graphic Design I	Elective 11-12	Full Year	10
Graphic Design II	Elective 12	Full Year	10
Instrumental Music	Elective 9-10-11-12	Full Year	10
Vocal Music	Elective 9-10-11-12	Full Year	10

**INDUSTRIAL ARTS**

General Shop	Elective 9-10-11-12	Full Year	10
Manufacturing Woods	Elective 10-11-12	Full Year	10
Advanced Manufacturing Woods	Elective 11-12	Full Year	10
Construction Home Maintenance	Elective 10-11-12	One Semester	5
Advanced Construction Home Maintenance	Elective 11-12	One Semester	5
Welding I	Elective 10-11-12	Full Year	10
Welding II	Elective 11-12	Full Year	10
Industrial Technology Skills	Elective 12	Full Year	10

**LANGUAGE ARTS**

English I	Required 9	Full Year	10
English II	Required 10	Full Year	10
English III	Required 11 Either Eng. III or Adv. III	Full Year	10
Advanced English III	Required 11 Either Eng. III or Adv. III	Full Year	10
English IV	Required 12 Either Eng. IV or Adv. IV	Full Year	10
Advanced English IV	Required 12 Either Eng. IV or Adv. IV	Full Year	10
Applied Literary Concepts	Elective 9-10-11-12	Full Year	10
Creative Writing	Elective 9-10-11-12	One Semester	5
Speech	Elective 9-10-11-12	One Semester	5
Journalism I	Elective 9-10-11-12	One Semester	5
Journalism II	Elective 9-10-11-12	One Semester	5
Spanish I	Elective 9-10-11-12	Full Year	10
Spanish II	Elective 9-10-11-12	Full Year	10
Spanish III	Elective 9-10-11-12	Full Year	10
Spanish IV	Elective 9-10-11-12	Full Year	10
Spanish Heritage Language	Elective 9-10-11-12	Full Year	10

**MATHEMATICS**

Applied Math I	Elective 9	Full Year	10
Applied Math II	Elective 10	Full Year	10
Applied Geometry	Elective 11	Full Year	10
Beginning Algebra	Elective 9-10-11-12	Full Year	10
Geometry	Elective 9-10-11-12	Full Year	10
Advanced Algebra	Elective 9-10-11-12	Full Year	10
Business Math	Elective 11-12	Full Year	10
Finite	Elective 10-11-12	One Semester	5
Trigonometry	Elective 10-11-12	One Semester	5
Pre-Calculus	Elective 11-12	One Semester	5
Statistics	Elective 11-12	One Semester	5
Calculus	Elective 11-12	Full Year	10

**PHYSICAL EDUCATION**

Physical Education 9	Required 9	Full Year	10
Applied Health	Elective 9	Full Year	10
Advanced Physical Education	Elective 10-11-12	Full Year	10
Strength Training	Elective 9-10-11-12	Full Year	10

**SCIENCE**

General Science	Required 9	Full Year	10
Applied Biology I	Required 10	Full Year	10
Biology I	Required 10	Full Year	10
Botany	Elective 9-10-11-12	Full Year	10
Biology II	Elective 11-12	Full Year	10
Applied Chemistry	Required 11	Full Year	10
Chemistry I	Required 10-11-12	Full Year	10
Chemistry II	Elective 11-12	Full Year	10
Anatomy & Physiology	Elective 11-12	Full Year	10
Zoology	Elective 10-11-12	Full Year	10
Physics	Elective 11-12	Full Year	10

**SOCIAL SCIENCE**

Geography	Required Either Geog. or W.Hist. 9-12	Full Year	10
World History	Required Either Geog. or W.Hist. 9-12	Full Year	10
Sociology	Elective 9-10-11-12	One Semester	5
Criminal Justice	Elective 9-10-11-12	One Semester	5
Psychology	Elective 11-12	One Semester	5
Developmental Psychology	Elective 11-12	One Semester	5
American History	Required 11	Full Year	10
American Government	Required 12	Full Year	10

**STUDENT ASSISTANT**

Elective 11-12	Full Year	2
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**STUDY HALL**

Elective 9-12	Full Year	NC
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**GRADUATION REQUIREMENTS  
FOR  
JOHNSON COUNTY CENTRAL**

<b>LANGUAGE ARTS</b> At least 40 hours of English is required	<b>50 HOURS</b>
<b>MATHEMATICS</b> Must take a math class during 9 <sup>th</sup> -10 <sup>th</sup> -11 <sup>th</sup> and 12 <sup>th</sup> grade year	<b>40 HOURS</b>
<b>SOCIAL SCIENCES</b> Must have 10 hours of either Geography or World History and 10 hours each of American History and American Government	<b>30 HOURS</b>
<b>SCIENCE</b> Must have 10 hours each of General Science, Biology I and Chemistry I. With administrative approval Applied Biology I/Applied Chemistry may be taken in place of Biology I/Chemistry I. Must take a science class during 9 <sup>th</sup> -10 <sup>t</sup> -11 <sup>th</sup> and 12 <sup>th</sup> grade year	<b>40 HOURS</b>
<b>PHYSICAL EDUCATION</b> Must have Physical Education 9, Applied Health 9 or Strength Training	<b>10 HOURS</b>
<b>CAREER AND TECHNICAL EDUCATION</b> Must have 10 hours from Agriculture, Business Education, Industrial Arts or Career Education	<b>10 HOURS</b>
<b>FINE ARTS</b>	<b>10 HOURS</b>
<b>ELECTIVES</b>	<b>50 HOURS</b>
<b>TOTAL CREDITS</b>	<b>240 HOURS</b>

Successful completion of a student's IEP goals and objectives will qualify that student for completion of the graduation requirements.

## **COURSE DESCRIPTIONS** **ADDITIONAL OFFERINGS**

### **ACADEMIC DECATHLON** Elective 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: None

This course is open to all students – ALL GPAs – we need “A” students, “B” students, “C” students, and “D” students – everyone is welcome!

Academic Decathlon is a course in which we explore ten academic areas focused around a central theme that changes yearly and is set by the United States Academic Decathlon organization in March of each year. The academic areas that will be studied will include: art, music, language/literature, science, economics, social science, math, essay, speech and interview.

Students will have the opportunity to tryout and compete at the regional competition, which can lead to competing at the state competition. You only compete against students within your GPA range. Individual scholarships, in the past, have been made possible by the Nebraska Optimists for regular team members on the 1<sup>st</sup>, 2<sup>nd</sup> or 3<sup>rd</sup> place Regional and State Teams.

Academic Decathlon stresses educational opportunity, intellectual experience, and academic excellence.

### **STUDENT ASSISTANT** Elective Pass/Fail/Full Year Grade 11-12

Prerequisite: See principal for form (have interest in going into education and have no study hall)

## **AGRICULTURE**

### **ADVANCED AGRICULTURAL STUDIES (FFA)** Elective 10 Credits/Full Year Grade 11-12

Prerequisite: Intro to Agriculture, Food, and Natural Resources and FFA membership

This course is designed to be an independent study projects course for those looking to excel in a specific agricultural area. Coursework includes, but is not limited to, fulfilling requirements for the State FFA Degree, writing small grants, studying higher level animal/plant science, and agri-science research. Competing in FFA District, State, and National level competitions is an integral part of this course. This course meets requirements for FFA organization membership.

### **INRO TO AGRICULTURE, FOOD AND NATURAL RESOURCES** Elective 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: None

Intro to Agriculture, Food and Natural Resources is a course designed to give first year Agricultural Science students scientific and technical knowledge and skills in the agricultural science field. Introduction to plant science, animal science, leadership, agricultural careers, and FFA will be the emphasis. Through this course, students will establish a foundation knowledge base and technological skill base that covers all areas of the agriculture industry. The application of the biological science principles under both laboratory and real world conditions is also an objective of this introductory course. Classroom study is integrated with realistic production activities. The FFA program is an integral part of the course. Participation in local, District, State, and National FFA activities will be an integral part of the course. This course meets requirements for FFA organization membership.

### **ANIMAL SCIENCE** Elective 5 Credits/1<sup>st</sup> Semester Only Grade 10-11-12

Prerequisite: Intro to Agriculture, Food and Natural Resources

Students will explore the basic scientific principles and processes that are involved in animal physiology, breeding, nutrition, and care in preparation for an animal systems career. Topics include animal diseases, introduction to animal science, animal nutrition, animal science issues, career opportunities and animal evaluation. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

### **VETERINARY SCIENCE** Elective 5 Credits/2<sup>nd</sup> Semester Only Grade 10-11-12

Prerequisite: Intro to Agriculture, Food and Natural Resources and Animal Science

Students will be introduced to the basics of animal medical care. Topics covered include disease, parasites, feeding, shelter, grooming, and general animal care. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

**FOOD SCIENCE AND SAFETY** Elective 5 Credits/1<sup>st</sup> Semester Only Grade 10-11-12

Prerequisite: Intro to Agriculture, Food and Natural Resources

Students are introduced to the principles, applications and science of food and food processing and production. Students will learn the scientific principles and practice scientific applications involved in the food industry including food science, food processing, microbiology, toxicology, regulations concerning the protection of the food supply and organic production of food and nutrition. Students will be provided with a Food Science curriculum that incorporates a tremendous amount of science, including general chemistry, organic chemistry, biochemistry, biology, microbiology, and physics. Job placement and salaries for food science majors is astonishing. The food industry is in need of dedicated, science minded individuals to help maintain our safe, nutritious, and convenient food supply. FFA will be an integral part of this instructional program and membership is encouraged but not required.

**FOOD PRODUCTS AND TECHNOLOGY** Elective 5 Credits/2<sup>nd</sup> Semester Only Grade 10-11-12

Prerequisite: Intro to Agriculture, Food and Natural Resources and Food Science and Safety

Students will partake in an in-depth study of the development of food products from a variety of agricultural industries. Students will study the nutritional value of foods along with applying scientific processes such as microbiology and chemistry to the development of food products, and analyze and select appropriate storage, distribution and consumption of foods. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

**BUSINESS EDUCATION**

**INTRODUCTION TO BUSINESS** Elective 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: None

This course provides an overview of introductory business concepts. It will cover the basics of the economy, owning and operating a business, global influences on business, marketing, human resources, financial and technological resources, career planning, buying goods and services, credit, money management, and risk management.

**INFORMATION TECHNOLOGY APPLICATIONS** Elective 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: None

This course provides an overview of microcomputer applications including: Microsoft Office 2013 (Word, Excel, Access, and PowerPoint). No experience with a computer is assumed, and no mathematics beyond the high school freshman level is required. Course objectives include:

- Teach the fundamentals of Microsoft Office 2013
- Expose students to practical examples of the computer as a useful tool
- Acquaint students with the proper procedures to create documents (word processing, formatting, and proper letter, memo, and resume formats), presentations, worksheets, and databases suitable for coursework, professional purposes, and personal use.
- Help students discover the underlying functionality of Office 2013 so they can become more productive
- To develop an exercise-oriented approach that allows learning by doing

In addition, students will also do various internet activities throughout the second semester (including, but not limited to: Avatars and various online presentation software). iPad applications will also be taught and used (Pages, Keynote, Edmodo, and various others).

**MANAGEMENT** Elective 10 Credits/Full Year Grade 10-11-12

Prerequisite: None

The course is designed to provide basic theory of business organization and management. The course gives a general overview of national and international business and the social and economic environments of business. This course will cover the following topics: The business environment, forms of business ownership and the law, information and communication systems, management responsibilities, financial management, and production and marketing management. H&R Block's Virtual Business Management computer simulation. This course is offered for dual credit through Southeast Community College as BSAD2540 Principles of Management. Students desiring the credit hours should check with the guidance counselor for SCC registration details.



**MARKETING** Elective 10 Credits/Full Year Grade 10-11-12

Prerequisite: None

This course is designed to enable students to understand and apply marketing, management and entrepreneurial principles; to make rational economic decisions; and to exhibit social responsibility in a global society. This course will cover the following topics: economics, communication and interpersonal skills, professional development, entrepreneurship, distribution, financing, information management, pricing, product, promotion, and selling. H& R Block's Virtual Business Sports & Entertainment computer simulation. This course is offered for dual credit through Southeast Community College as BSAD2520 Principles of Marketing. Students desiring the credit hours should check with the guidance counselor for SCC registration details.

**ACCOUNTING** Elective 10 Credits/Full Year Grade 10-11-12

Prerequisite: None

Accounting provides an understanding of the fundamental principles of the double-entry accounting system. Students will study the accounting cycle of a sole proprietorship, a partnership, and a corporation. Some activities in the course include: recording transactions, preparing worksheets, financial statements, payroll, and integrating accounting with computers. This course uses online working papers, assignments, and tests to enhance student learning, eliminate repetitive tasks, and involve higher-level thinking skills.

**ADVANCED ACCOUNTING** Elective 10 Credits/Full Year Grade 11-12

Prerequisite: Accounting

Advanced accounting is a continuation of accounting, in which we will explore advanced accounting transactions and procedures. Online working papers are used for this course, as well as, online tests. The accounting cycle for corporations is stressed in this course. This course uses online working papers, assignments, and tests to enhance student learning, eliminate repetitive tasks, and involve higher-level thinking skills. This is a beneficial course for all students who have the interest in pursuing a business and/or accounting career field at a post-secondary college/university.

**PERSONAL FINANCE** Elective 10 Credits/Full Year Grade 10-11-12

Prerequisite: None

Personal Finance shows students how to manage their personal finances now and in the future. The class helps students realize that they are already making financial decisions, shows them how their decisions affect their future, and allows students see the business applications of finance. This course includes work from textbooks, The National Endowment for Financial Education-Financial Planning Program, and H&R Block's Virtual Business Financial Simulation.

**BUSINESS LAW** Elective 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: None

This course is designed to present the study of the legal rights and responsibilities necessary to be informed and productive citizens, employees, employers, and consumers in the free enterprise system. This course will cover the following business law topics: what law is, contract law, consumer law, your money and the law, law and the workplace, starting a business, and family law.

**CAREER EDUCATION**

**BASIC MEDICAL TERMINOLOGY** Elective 5 Credits/First Semester Grade 11-12

Prerequisite: Biology I

This course covers basic medical terminology and is recommended for students planning a career in any health care related field. Student learn word parts, medical terms, and abbreviations pertaining to major body systems. It can be taken for dual credit through Southeast Community College as MEDA1101 Basic Medical Terminology. Students desiring the credit hours should check with the guidance counselor for SCC registration details. Concurrent enrollment in Anatomy & Physiology is highly recommended.

**COMPREHENSIVE MEDICAL TERMINOLOGY** Elective 5 Credits/Second Semester Grade 11-12

Prerequisite: Basic Medical Terminology

This course is a continuation of basic medical terminology. It includes an in-depth study of word parts, medical terms, and abbreviations relating to all body systems. It also includes terminology pertaining to anatomy, physiology, pathology, pharmacology, diagnostic procedures, therapeutic procedures, and surgical procedures. This course can be taken for dual credit through Southeast Community College as MEDA1210 Comprehensive Medical Terminology. Students desiring the credit hours should check with the guidance counselor for SCC registration details. Concurrent enrollment in Anatomy & Physiology is highly recommended.

**CNA** Elective 5 Credits/1<sup>st</sup> Semester only Grade 11-12

Prerequisite: There may be a fee to take the exam

This course is open to 11<sup>th</sup> and 12<sup>th</sup> grade students who are seriously interested in obtaining a nursing assistant certification with the State of Nebraska. This course will be offered in the first semester of the school year. Upon successful completion of this course, students will have obtained all the necessary skills and knowledge needed to take the State of Nebraska Certified Nursing Assistant exam. It is required to have a minimum of 75 “completed” hours of classroom and clinical experience to be eligible to take the State of Nebraska Certification Exam for Nursing Assistants.

**INTRO TO EDUCATION** Elective 5 Credits/First Semester Grade 11-12

Prerequisite: None

The first part of a two semester dual credit course offering through Peru State College to help students explore the profession of teaching from the point of view of a teacher. This course will include an overview of the teaching profession, purpose, history, philosophy, organization, curriculum alignment and standards of American public school education.

**EXPERIENCE IN TEACHING** Elective 5 Credits/Second Semester Grade 11-12

Prerequisite: Intro to Education

Provides students with volunteer experience in fields related to education. Goals are cooperatively set by student and supervising teacher so that students increase their understanding about the roles and responsibilities of a teacher. May include experiencing teaching in a controlled setting by designing learning experiences and giving presentations. Classroom instruction could include questioning, developing objectives and assessments, safety practices, IEP development and technology applications. Completion of both Intro to Education and Experiences in Teaching are eligible for college credit through Peru State College.

## **COMPUTERS**

**CODING** Elective 10 Credit/Full Year Grade 11-12

Prerequisite: Advanced Algebra

We will use code.org website curriculum to learn and develop computer programming skills.

## **DRIVER EDUCATION**

**DRIVER EDUCATION** Elective 5 Credits/Summer Grade 9-10-11-12

Prerequisite: Fee of \$150.00 and the student must be 14 years old by August 1 in order to sign up for this class.

The student will be required to pass 20 hours of classroom instruction to continue on with the course. The student will then have to complete five hours of driving time and five hours of observation time. The student must pass both sections of the course to pass the class. Items to be covered: car controls, informational devices and equipment, pre-driving checks, starting procedures, moving-stopping-securing procedures, turns, backing, lane changes, parking, handling emergencies, driver skills, driver attitudes, physical driver, laws, rules and regulations, signs-color, and additional information.

There will be guest speakers, visual aids, films, demonstrations, and a lot of useful information distributed. Students will be required to take reading and written comprehension testing. Insurance companies recognize driver education and give approximately 10% discount on insurance rates for those who pass and receive a certificate.

## FINE ARTS

### ART I Elective 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: None

This course is basic art appreciation to develop an understanding and respect for the subject of art, art history, art theory, and art production. The students will explore a variety of cultures through their creative arts, architecture, and artifacts. Students will be exposed to the changing role of the artist throughout history and how art is used in today's world as a form of communication and vocation. The students will be introduced to and utilize basic design concepts, vocabulary, art skills and techniques, through a variety of art production projects. Students will take notes and unit tests, and directed reading assignments. Throughout the year, students will generate a digital portfolio, using google-slides of all of their work. Biweekly sketch book assignments will also be assigned. Students will need a notebook, sketch book, pencils, and other supplies.

### ART II Elective 10 Credits/Full Year Grade 10-11-12

Prerequisite: Art I

Students will focus on and develop further art techniques and media used in Art I. Students will continue their discovery of art through a variety of cultures, creative arts and the changing role of the artist throughout history, and how art is used in today's world as a form of communication and vocation. The students will be introduced to and utilize basic design concepts, vocabulary, art skills and techniques, through a variety of art production projects. Students will take notes, unit tests, and directed reading assignments. Throughout the year, students will generate a digital portfolio, using google-slides, of all of their work. Bi-weekly sketch book assignments will also be assigned. Students will need a notebook, sketch book, pencils, and other supplies. Advanced Drawing Techniques: linear perspective, shape analysis, gesture sketches, scratch board art portraits. Sculpture techniques: assemblage; plater bandage gesture figures, modeled/relief sculpture, plaster cast. Painting: history of 20<sup>th</sup> century painting styles emulated in tempera/acrylic, color theory. Printmaking. Mixed Media: fiber art, collage, commercial design. Use of creative apps and filters on Ipads to create computer graphics/digital manipulation.

### ART III Elective 10 Credits/Full Year Grade 11-12

Prerequisite: Art II

Art III students will continue to develop and master specific techniques and skills. Students will continue their discovery of art through a variety of cultures, creative arts and the changing role of the artist throughout history, and how art is used in today's world as a form of communication and vocation. The students will be introduced to and utilize basic design concepts, vocabulary, art skills and techniques, though a variety of art production projects. Students will take notes, unit tests, and directed reading assignments. Throughout the year, students will generate a digital portfolio, using google-slides, of all of their work. Biweekly sketch book assignments will also be assigned. Students will need a notebook, sketch book, pencils, and other supplies. Advanced projects include, caving techniques, topography, relief print, computer graphics/digital manipulation, variation of a theme painting, demonstrating six to nine water color painting techniques, mixed media assemblage, physical balance/mobiles, advanced drawing techniques personal still-life drawing.

### ART IV Elective 10 Credits/Full Year Grade 12

Prerequisite: Art III

Art IV is an advanced art/independent study. Senior students will develop specific skills for art technique mastery or vocational needs under strict contract with instructor. Independent art students will keep a daily journal documenting their art exploration and creations. Biweekly sketch book assignments will be required of the students. Students will develop a digital portfolio for scholarship purposes and ready art work for display at Senior Art Show. Senior Art Show; organizing and presenting works of art, designing personal name-tags and gallery sheets, displaying art works, and attending an artists' reception will be required fourth quarter. The art show will be set up the Friday before graduation ceremony, mandatory attendance of artists' reception Friday evening. Students will continue exploring how art is used in today's world as a form of communication and vocation. The students will utilize basic design concepts, vocabulary, art skills and techniques, through a variety of art production projects. Throughout the year, students will generate a digital portfolio, using google-slides, of all of their work. Biweekly sketch book assignments will also be assigned. Students will need a notebook, sketch book, pencils, and other supplies

**GRAPHIC DESIGN I** Elective 10 Credits/Full Year Grade 11-12

Prerequisite: Art II

Graphic Design students will learn how to use typography, visual arts and page layout techniques to create visual compositions. Graphic design includes exploring; corporate design (logos and branding), editorial design (magazines, newspapers and books), advertising, product packaging and signage. Students will create commercial art designs and projects using traditional art media techniques, printing, digital photography, and simple Adobe Photoshop compositions.

**GRAPHIC DESIGN II** Elective 10 Credits/Full Year Grade 12

Prerequisite: Graphic Design I

Continuation of Graphic Design I and portfolio development. Focus on Computer Graphics and Computer generated projects.

**INSTRUMENTAL MUSIC** Elective 10 Credits/Full Year Grades 9-10-11-12

Prerequisite: Junior High Band or permission of instructor

Band studies the various idioms of instrumental music designed for wind and percussion instruments. Special emphasis is placed on developing an individual's musical ability, performance skills, self-discipline, responsibility, and cooperation in a group setting. The band will function as a marching band with rehearsals to be held with scheduled mornings during the week and will have performances at parades, home varsity football games, and contests during the summer and fall. Other band activities include concerts, solos and small group performances, pep band and other trips. Students will also have the opportunity to audition for a traditional jazz band with rehearsals held outside of normal class time.

SPECIAL EQUIPMENT: A band instrument, fees are assessed for uniform/instrumental rental.

**VOCAL MUSIC** Elective 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: Auditions may be required

Chorus studies the various idioms of vocal music with an emphasis placed on covering all types of music: self-discipline, cooperation in a group setting, performance skills, proper singing habits and recognizing musical cues for proper interpretation. Performances include four concerts, and various clinics and contests. Choir shirt is required to purchase. Black slacks, black socks and black shoes are required for performances.

Choir students will have the opportunity to audition for a traditional Madrigal choir from within the chorus class.

## **INDUSTRIAL ARTS**

**GENERAL SHOP** Elective 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: Students must have general shop passed before taking any other industrial arts class.

This will be a general industrial technology course for learning basic skills. The course will consist of various units. The drafting unit will cover multi-views, pictorials, mechanical and architectural drafting. Hand and basic machine wood working, safety unit for a general shop and machines, and work ethics will be covered.

Students will be responsible for the material they use in the making of their projects. A lab fee will be charged to cover the cost of building a project.

**MANUFACTURING WOODS** Elective 10 Credit/Full Year Grade 10-11-12

Prerequisite: General Shop

The course will consist of the class organizing different manufacturing systems. The topics studied will include inputs (people, materials, tools), processes (design engineering, production engineering, marketing), and outputs (manufactured goods, scrap, and pollution). The production of an individual project will be the final project. The final project may be made from wood.

Students will be responsible for the material they use in the making of their projects. A lab fee will be charged to cover the cost of building a project.

**ADVANCED MANUFACTURING WOODS** Elective 10 Credit/Full Year Grade 11-12

Prerequisite: General shop and Manufacturing Woods

The course will be a continuation of Manufacturing Woods. The topics that were not covered at first will be continued in this class. Students will also use advanced woodworking techniques. Project must have a movable section and make use of cam system.

Students will be responsible for the material they use in the making of their projects. A lab fee will be charged to cover the cost of building a project.

**CONSTRUCTION HOME MAINTENANCE** Elective 5 Credits/First Semester Grade 10-11-12

Prerequisite: General Shop

Students will learn the basics of construction. This will include information about equipment, methods, and materials employed in light construction. This will center on residential construction and procedures. Students will also learn basic home repairs.

Students may have a lab fee that will be charged to cover the cost of building a project.

**ADVANCED CONSTRUCTION HOME MAINTENANCE** Elective 5 Credits/Second Semester Grade 11-12

Prerequisite: General shop and Construction Home Maintenance

Students will go into more depth of construction and will also cover Architectural designs, floor plans, elevation views, and lot plans.

Student may have a lab fee that will be charged to cover the cost of building a project.

**WELDING I** Elective 10 Credits/Full Year Grade 10-11-12

Prerequisite: General Shop

Welding I is designed to provide a broad experience in metal working through the use of tools, machines, and material that are basic to this important area. Units covered include: general occupational information, safety, basic oxyacetylene welding and cutting, and basic arc welding.

Students will be responsible for the material they use in the making of their projects. A lab fee will be charged to cover the cost of building a project.

**WELDING II** Elective 10 Credits/Full Year Grade 11-12

Prerequisite: General shop and Welding I

Welding II is for students that have completed welding I. The students will do welds in positions other than flat. The student will also be introduced to foundry.

Students will be responsible for the material they use in the making of their projects. A lab fee will be charged to cover the cost of building a project.

**INDUSTRIAL TECHNOLOGY SKILLS** Elective 10 Credits/Full Year Grade 12

Prerequisite: General shop and 2 of the 3 advanced courses (Adv. Man. Woods, Welding II or Adv. Const. Home Maint.)

Students will plan, design, and complete projects as a class in the areas of Manufacturing woods, Manufacturing welding or Construction.

Students will be responsible for the material they use in the making of their projects. A lab fee will be charged to cover the cost of building a project.

## LANGUAGE ARTS

### ENGLISH I Required 10 Credits/Full Year Grade 9

Prerequisite: None

This course concentrates on improving the student's overall language skills. The literature presented in this course encompasses short pieces from a variety of literary and informational texts. The composition component utilizes a process approach with a focus on writing summaries, analyses, and essays. Literary elements and devices, grammar, and grade-level vocabulary are integrated into the study of literature and composition.

### ENGLISH II Required 10 Credits/Full Year Grade 10

Prerequisite: English I

The literature presented in this course encompasses a variety of fictional and informational texts of various lengths. Students will apply speaking skills and strategies to communicate key ideas discovered within novel studies. The composition component utilizes a process approach with a focus on writing increasingly sophisticated essays and a formal research paper. Literary elements and devices, grammar, and grade-level vocabulary are integrated into the study of literature and composition.

### ENGLISH III Required 10 Credits/Full Year Grade 11

Prerequisite: English II

This course will be a survey of American literature, a continuation of grammar study, a review of mechanical skills, and development of oral communication skills. Analytical reading instruction will extend understanding of literary elements and language. Writing instruction at this level focuses on mechanical correctness, fluency, and structure. Major emphasis in writing is directed toward the development of the persuasive essay.

### ADVANCED ENGLISH III Elective 10 Credits/Full Year Grade 11

Prerequisite: English II

This course aims to develop and expand the student's ability to read with increased critical awareness the various works of American Literature, presented within the literary genres of prose, poetry and drama. The literature for this course will include a survey of influential American authors and major literary movements. Over the course of this year, there will be special emphasis placed on literary analysis, reading and writing skills, and vocabulary development. This class will include a review of mechanical and grammar skills. Writing instruction will extend their development in the modes of writing, with special emphasis on persuasive writing. Independent reading assignments over novels will be mandatory.

### ENGLISH IV Required 10 Credits/Full Year Grade 12

Prerequisite: Advanced English III or English III

Included in this course will be a survey of literature of merit and major literary movements. Analytical reading instruction will extend understanding of literary elements and language. This level will include a review of mechanical and grammar skills. Writing will be taught to prepare the students for practical needs. Major emphasis in writing is directed towards understanding forms, applications, resumes, cover letters, and business letters.

### ADVANCED ENGLISH IV Elective 10 Credits/Full Year Grade 12

Prerequisite: Advanced English III

Advanced English IV prepares students for the reading, thinking, writing and research tasks encountered in college coursework. This course involves a survey of literature of merit and major literary movements, with an emphasis on British literature. Expository writing, vocabulary building, and a review of mechanical skills necessary to the student's writing needs will be emphasized. This course incorporates the skills of critical thinking, researching, essay writing, and oral communication. Independent reading assignments over novels will be mandatory.

### APPLIED LITERARY CONCEPTS Elective 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: Recommendation by English faculty

Applied Literary Concepts is designed to improve student reading comprehension through the intense study and application of reading comprehension strategies, vocabulary, and grammatical structure. In completing this course, students will strengthen their abilities to identify and classify main ideas, make predictions, draw inferences, recognize cause-effect relationships, differentiate fact and opinion, identify elements of bias and persuasion, and analyze and evaluate various types of text. Students will also recognize how vocabulary, parts of speech, and sentence structure affect literary meaning. This course is recommended for students who score less than 220 on Fall or Spring Reading MAP test.

**CREATIVE WRITING** Elective 5 Credits/One Semester Grade 9-10-11-12

Prerequisite: None

Students will read a variety of poetry and prose from different literary movements. They will study both the historical and rhetorical contents of creative fiction and nonfiction. They will deconstruct literary selections for figurative and rhetorical writing techniques. Students will create original essays, poems, and short stories in this course which focuses on the four-step writing process. Students will read professionally written forms of creative writing as models and then integrate their impressions of these works with their personal life experiences as they compose their own writing projects. Students are encouraged to write about topics they find engaging as they practice writing on the following themes: narration, definition, process analysis, cause and effect, and comparison/contrast. After students turn in each assignment, the teacher supplies detailed suggestions for revision. This feedback helps students learn how to improve their self-expression and self-editing skills.

**SPEECH** Elective 5 Credits/One Semester Grade 9-10-11-12

Prerequisite: None

In this course, students will have the opportunity to gain skill, confidence, and fluency in public speaking while preparing for competitive speech tournaments which will be required of all students. This course will guide students through topic selection, organization, language, and delivery. Students will work independently and collectively, applying communication principles to formal and informal speaking and writing assignments, analysis, and evaluation.

**JOURNALISM I** Elective 5 Credits/One Semester Grade 9-10-11-12

Prerequisite: Students must have recommendation from English teacher.

Prerequisite: Students must have recommendation from Journalism teacher. Students are required to fill an editor's position or take a leadership role on the yearbook staff. Students plan a yearbook ladder, complete various spreads and assignments, copy edit, and complete a portfolio of work. They master advanced layout and design of desktop publishing, digital imagery, and photo placement. Journalism can be taken during both the junior and senior year.

**JOURNALISM II** Elective 5 Credits/One Semester Grade 9-10-11-12

Prerequisite: Journalism I

Students are required to fill an editor's position or take a leadership role on the yearbook staff. Students plan a yearbook ladder, complete various spreads and assignments, copy edit, and complete a portfolio of work. They master advanced layout and design of desktop publishing, digital imagery, and photo placement. Journalism can be taken during both the junior and senior year.

**SPANISH I** Elective 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: Proficiency Exam

Spanish I is designed as a conversational language course that will focus primarily on listening with emphasis on developing speaking and reading comprehension, written composition, and grammar and syntax. Vocabulary building and listening skills will be the main concepts taught through the year. There will be many short stories created and read in Spanish for vocabulary development and reading comprehension. Students will be encouraged to speak Spanish in and outside of class. Either cumulative projects or assessments will be applied at the end of every quarter.

**SPANISH II** Elective 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: Proficiency Exam

Spanish II builds upon the skills learned in Spanish I. Students will be expected to enhance and increase their conversational abilities while augmenting listening and reading comprehension, written composition, and grammar and syntax. New tenses will be introduced and applied. There will be listening comprehension and short stories written in Spanish for reading comprehension. Students will be encouraged to speak Spanish in and outside of class. Either cumulative projects or assessments will be applied at the end of every quarter.

**SPANISH III** Elective 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: Proficiency Exam

Spanish III builds upon the skills learned in Spanish II. Students will be expected to continue to enhance and increase their conversational abilities as well as advance listening and reading comprehension, written composition, and grammar and syntax. New tenses will be introduced and applied. Students will be expected to speak Spanish in and outside of class. Students will have the opportunity to develop their listening and context clues through watching a telenovela. Either cumulative projects or assessments will be applied at the end of every quarter.

**SPANISH IV** Elective 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: Proficiency exam

Spanish IV will build upon the skills learned in Spanish III. Students will be expected to reinforce their conversational abilities, listening and reading comprehension, written composition, and grammar and syntax. This course will rely heavily on cultural projects. Presentations, papers, movies, and research will be the focus. Students will read 1 Spanish novel per quarter. Students will be expected to speak Spanish in and outside of class. Potentially, this level would teach a some lessons to the elementary. Either cumulative projects or assessments will be applied at the end of every quarter.

**SPANISH HERITAGE LANGUAGE** Elective 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: Proficiency exam or permission of teacher

This is an advanced Spanish course that will focus on the history. It will delve into the lives of various hispanic leaders. Students in this class will develop their cultural awareness, continue to expand their vocabulary as well as acquire an academic vocabulary while bettering their spelling, writing and reading comprehension skills. Either cumulative projects or assessments will be applied at the end of every quarter.

## **MATHEMATICS**

**APPLIED MATH I** Elective 10 Credits/Full Year Grade 9

Prerequisite: Pre-Algebra

Applied Math I integrates a variety of topics from the areas of algebra, geometry, numbers and operations, as well as, probability and statistics. Problem solving strategies are incorporated throughout the course. The course is designed as an offering for students who struggled in pre-algebra and are not ready for beginning algebra.

Units Include: Data and graphs, measurement, real numbers and variable expressions, two and three dimensional geometry, equations and inequalities, percent's, functions and graphs, relationships in geometry, polynomials, and mathematical reasoning.

SPECIAL EQUIPMENT: Scientific calculator, straight edge.

**APPLIED MATH II** Elective 10 Credits/Full Year Grade 10

Prerequisite: Applied Math I

Applied Math II further extends the study of topics in the areas of algebra, geometry, problem solving, numbers and operations, and probability and statistics. Upon passing both courses in the applied math series, a student is granted credit for completion of beginning algebra along with having completed two of the four years required of high school math. Therefore upon completion of the Applied Math I and Applied Math II series, a student need not enroll in Beginning Algebra.

Units include: Data collection and displays, foundations of algebra, equations and inequalities, probability, logic and geometry, graphing functions, coordinate graphing and transformations, systems of equations and inequalities, polynomials, three-dimensional geometry, right triangle trigonometry, logic and sets.

SPECIAL EQUIPMENT: Scientific calculator, straight edge.

**APPLIED GEOMETRY** Elective 10 Credits/Full Year Grade 11

Prerequisite: Applied Math II

This course is designed for students who have completed Applied Math I and Applied Math II. There will be an emphasis on applying mathematical concepts to real-world situations. Students in this course will learn geometry applications in the work place, inductive and deductive reasoning, applications of similar and congruent triangles, right-triangle relationships, and methods for solving real-world problems involving area and volume. Students will also investigate characteristics of quadrilaterals, parallel lines, and circles.

**BUSINESS MATH** Elective 10 Credits/Full Year Grade 11-12

Prerequisite: Beginning Algebra or Applied Math II

Business math is a course that focuses on math skills related to real life situations. Topics covered include salary, loans, credit cards, insurance, investments, sales, and other business related topics.



**BEGINNING ALGEBRA** Required 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: Grade of C or better in Pre-Algebra 8

The course begins with a review of the basic operations of whole numbers and integers and an introduction to the central concept of variables. Other topics included are: writing and solving linear and quadratic equations, linear inequalities, the laws of exponents, factoring, algebraic fractions, and systems of linear equations, fractional (including decimal) equations, real number system, and right triangle trigonometry.

SPECIAL EQUIPMENT OR MATERIALS REQUIRED: straight edge and scientific calculator

**GEOMETRY** Elective 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: Beginning Algebra (can be concurrent with Beginning Algebra or Applied Math II)

Geometry is the study of points, lines, and planes, and their properties. It is also a special mathematical system in which a few basic statements are agreed upon and then used to discover results by logical reasoning. Topics include angles, parallels, congruent triangles, polygons, quadrilaterals, similarity, circles, area, and volume. Elementary proofs and the deductive reasoning process are also emphasized.

SPECIAL EQUIPMENT OR MATERIALS REQUIRED: compass, geometry (straight edge or protractor), and scientific calculator

**ADVANCED ALGEBRA** Elective 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: Beginning Algebra and Geometry with a B or better (can be concurrent with Geometry)

A course in advanced algebra which includes these topics: linear equations, absolute value, inequalities, factoring, exponents, rational expressions, quadratic equations, complex numbers, graphing analytic geometry, functions, conic sections, systems of equations, logarithms and matrices.

SPECIAL EQUIPMENT OR MATERIALS REQUIRED: Scientific calculator

**FINITE** Elective 5 Credits/One Semester Grade 10-11-12

Prerequisite: Advanced Algebra and Geometry

First Semester: Finite

Algebra skills are extended in this course to provide the background necessary for further mathematics courses. The course covers an in-depth study of topics including functions and their inverse, higher degree polynomials and rational functions, counting principles, probability, and introduction to limits, sequences, and series.

**TRIGONOMETRY** Elective 5 Credits/One Semester Grade 10-11-12

Prerequisite: Finite

Second Semester: Trigonometry

The trigonometry curriculum covers trigonometric functions, identities, applications of trigonometry, trigonometric equations, trigonometric identities, solution of triangles, inverse trigonometric functions, vectors, complex numbers and their polar forms, and trigonometric graphs.

Technology Use: Appropriate technology, including graphing calculators, will be used at times with instruction and assessment.

**PRE-CALCULUS** Elective 5 Credits/One Semester Grade 11-12

Prerequisite: Finite/Trigonometry

First Semester: Pre-Calculus

Pre-calculus is a continuation and extension of Finite. The course develops the topics essential for success in Calculus. Content includes a study logarithmic and exponential functions, partial fractions, matrices, determinants, conic sections, limits, and an introduction to derivatives.

**STATISTICS** Elective 5 Credits/One Semester Grade 11-12

Prerequisite: Finite/Trigonometry

Second Semester: Statistics

This course provides an opportunity for students to develop critical and functional understanding of data and to acquaint students with the basic ideas and language of statistics. Topics include the nature of data, uses and abuses of statistics, sampling methods, summarizing data, counting techniques, frequency distributions, measures of central tendency and dispersion, elementary probability and probability distribution, and hypothesis testing.

Technology Use: Appropriate technology, including graphing calculators, will be used at times with instruction and assessment.

**CALCULUS** Elective 10 Credits/Full Year Grade 11-12

Prerequisite: Pre-Calculus/Statistics or Finite/Trigonometry with teacher permission.

Calculus studies the mathematical tools used to analyze the rate of change between variables. The course reviews some principles of pre-calculus and investigates limits, differentiation, and integration. Applications of both differentiation and integration are included in the course of study.

Technology Use: Appropriate technology, including graphing calculators, will be used at times with instruction and assessment.

**PHYSICAL EDUCATION AND HEALTH**

**APPLIED HEALTH** Elective 10 Credits/Full Year Grade 9

Prerequisite: None

Applied Health covers areas in the mental, physical and social aspects of health education. Students will gain knowledge by applying course content with moderate physical activity. Students will gain an increased awareness of living a healthy lifestyle.

**PHYSICAL EDUCATION** Required 10 Credits/Full Year Grade 9

Prerequisite: None

Students will participate in physical activity that will promote cardiovascular, muscular, and skill development through fitness activities. Skill development, fitness activities, and performance testing will be included throughout the course.

**ADVANCED PHYSICAL EDUCATION** Elective 10 Credits/Full Year Grade 10-11-12

Prerequisite: Physical Education 9

This course is designed for the student who is interested in a more in-depth dose of game strategies, skill development, mental awareness, and physical fitness. Lifetime activities will be stressed. Participation and a willingness to try all activities with a positive attitude are keys for student success. Fitness and having fun will be encouraged. Mastering the skills of the activities themselves can be the competition or students may enjoy tournament play. These activities can include, but are not limited to: volleyball, flag football, aerobic dance, soccer, basketball, softball, whiffle-ball, lacrosse, Frisbee golf, ultimate Frisbee, ultimate football, double Iowa basketball, archery, tennis, bowling, croquet, handball, badminton, table tennis, golf, fitness-gram testing, walking, jogging and jumping rope.

**STRENGTH TRAINING** Elective 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: None

This class is designed to allow students to participate in fitness activities that will promote cardiovascular endurance (ex. running, biking, long time activities), muscular endurance (weight training with higher repetitions and lower weight), flexibility, and understanding body composition. We will set up activities to promote/increase fitness while maintaining the body we want. We will also experiment with fitness activities such as ballistics, and circuit training.

## SCIENCE

### GENERAL SCIENCE Required 10 Credits/Full Year Grade 9

Prerequisite: None

This is an integrated science class that is designed to split focuses between earth and space sciences and physical sciences. There is a good deal of hands-on activities involving multimedia, as well as, traditional lab experiments that will be done in class. Some specific topics that are covered are: waves, simple machines, motion, atomic structure and periodic table. The course will also involve measurement of forces, the use of simple machines such as pulleys and balances, and the use and production of different forms of energy such as heat and electricity. The earth and space portion will focus on the space systems, weather and climate, earth systems, the history of earth, and sustainability.

### APPLIED BIOLOGY I Required 10 Credits/Full Year Grade 10

Prerequisite: None

Applied biology I has the primary objective to introducing the student to general biology and science principles that can be applied to work based experiences after high school. Recommended for students who score 200 or below on the general science MAP test. Students will get an overview of the nature of life, through lecture, labs, internet, and software. The following areas will be covered: structure and function of organism, interdependent relationships and eco systems, matter and energy in organism and eco systems, heredity, and biological evolution.

### BIOLOGY I Required 10 Credits/Full Year Grade 10

Prerequisite: None

To understand the nature of life, through lecture, labs, internet, and software. The following areas will be covered: structure and function of organism, interdependent relationships and eco systems, matter and energy in organism and eco systems, heredity, and biological evolution.

### BIOLOGY II Elective 10 Credits/Full Year Grade 11-12

Prerequisite: Biology I

This course builds on the concepts covered in Biology I. Students will study evolution, adaptation, niche and population variation, speciation, taxonomy and phylogenetic classification and zoological nomenclature in more depth. Students will do independent and group activities including dissection of various invertebrates and vertebrates.

### BOTANY Elective 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: None

Students will learn about basic plant science, which involves applying basic biology to the growing of crops, vegetables, flowers, trees, and houseplants. Projects will expose students to plant propagation, photosynthesis, house plant care, floral identification, floral design, tree identification, and landscape management. This course will explore the plant-related careers that are in demand in Nebraska. This course meets requirements for FFA organization membership. (Science credit approved by UNL)

### APPLIED CHEMISTRY I Required 10 Credits/Full Year Grade 11

Prerequisite: Beginning Algebra or Applied Math II

Applied Chemistry has the primary objective to introducing the student to general chemistry and science principles that can be applied to work based experiences after high school. Recommended for students who score 200 or below on Fall General Science MAP test. Students will get an overview of the properties of matter and the changes that take place in reactions, atomic structure, atomic theory, chemical bonding, balancing equations, states and properties of matter, acids and bases, gas laws, solutions.

### CHEMISTRY I Required 10 Credits/Full Year Grade 10-11-12

Prerequisite: Beginning Algebra or Applied Math II

Chemistry I has the primary objective of preparing students for college chemistry and providing the necessary science background for students planning on a college career. Chemistry is a study of the properties of matter and the changes that take place in reactions. Students will study atomic structure, chemical bonding, formula writing and reaction identification, gas laws, states of matter, solutions, and stoichiometry.

**CHEMISTRY II** Elective 10 Credits/Full Year Grade 11-12

Prerequisite: Chemistry I and Algebra II

Chemistry II may be taken as a dual credit course through Peru State College. It is recommended for students who plan a career in science or health sciences. It will expand on Chemistry I and include more labs and advanced activities. Students will study atomic theory, chemical bonding, stoichiometry, solutions, pH, states of matter, oxidation-reduction reactions, thermochemistry and chemical equilibrium.

**ANATOMY & PHYSIOLOGY** Elective 10 Credits/Full Year Grade 11-12

Prerequisite: Biology I with a C or above

This course is intended for students interested in science and health related fields and it may be taken for dual credit, with college credit granted through Peru State College as BIOL210 (Anatomy). If college credit is desired, students should consult with the guidance counselor, to make sure they meet the requirements and have registered with PSC. Students will study the human body systems, disorders and diseases related to each system. Students will do independent and group activities designed to understand the body systems and how they work together. There will be a large amount of new vocabulary as well as abstract concepts and higher level thinking. **Concurrent enrollment in Basic Medical Terminology is strongly recommended but not required.**

**ZOOLOGY** Elective 10 Credits/Full Year Grade 10-11-12

Prerequisite: Biology

In this course, students study the basics of the animal agriculture industry, animal growth and development, animal anatomy and physiology, animal care, nutrition, and genetics. Through individual and group projects, students investigate the animals and animal careers that interest them. This class is a must for anyone considering a career as a veterinarian, a veterinary technician, an animal research scientist, or a career in any other animal related area. This course meets requirements for FFA organization membership. (Science credit approved by UNL)

**PHYSICS** Elective 10 Credits/Full Year Grade 11-12

Prerequisite: Finite/Trigonometry with a grade of C or above (Trig may be taken concurrently with instructor permission)

Physics is recommended for students interested in engineering, science, and health sciences such as medicine, dentistry, physical therapy, medical technology and others that will require college physics. Units will include: vectors, motion, dynamics and momentum, work, power and energy, thermal energy, waves, electricity and light. This class may be taken as a dual credit course through Peru State College. Special equipment or materials required: scientific calculator

## **SOCIAL SCIENCES**

**GEOGRAPHY** Required 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: Students required to take either Geography or World History

Geography topics of study will be maps and globes, people and places, North America, Africa, Asia, Europe, South America, and Australia. Students will be exposed to a physical, cultural, economic, and political view of our world.

**WORLD HISTORY** Required 10 Credits/Full Year Grade 9-10-11-12

Prerequisite: Students required to take either Geography or World History

This is an introductory course in World History that covers the time of pre-dawn of history to modern time. Specific topics to be covered will include the beginnings of civilizations, the classical civilizations, the worlds of Christianity and Islam, and the rise of nations all over the world from their beginnings to those of the modern world.

**SOCIOLOGY** Elective 5 Credits/One Semester Grade 9-10-11-12

Prerequisite: None

In this course, students will study dynamics and models of individual and group relationships. Students study topics such as the history and systems of sociology, cultural and social norms, social institutions, and mass communication.

**CRIMINAL JUSTICE** Elective 5 Credits/One Semester Grade 9-10-11-12

Prerequisite: None

Designed as a study of the history and philosophy of criminal justice and its ethical considerations. The nature and impact of crime is explored, and instruction includes an overview and study of the criminal justice system, law enforcement, the court systems, prosecutions and defense, trial processes, and corrections and penal systems.

**PSYCHOLOGY** Elective 5 Credits/One Semester Grade 11-12

Prerequisite: None

This course is designed to help students understand and appreciate the behavior of both typical and atypical individuals. Students will attain an academic understanding and fundamental technical vocabulary of psychology as a social science.

**DEVELOPMENTAL PSYCHOLOGY** Elective 5 Credits/One Semester Grade 11-12

Prerequisite: None

Developmental Psychology focuses on human growth and development. Topics of study will focus on the physical, cognitive, social and emotional aspects of growth from birth through old age. In addition, factors thought to influence growth and development are also examined.

**AMERICAN HISTORY** Required 10 Credits/Full Year Grade 11

Prerequisite: None

This course examines the major turning points in American History beginning with the events leading up to the American Revolution, the origins of our constitution, reform movements, Manifest Destiny, the Civil War and Reconstruction, the impact of the frontier, the changing nature of business and government, World War I, the Great Depression, World War II, the growth of the United States as a world power, the Cold War and the struggle to achieve class, ethnic, racial, and gender equality. The course extends to the modern day. Contemporary world issues such as globalization, economic interdependence, and terrorism and world cultures will also factor into our analysis of international conflict and cooperation.

**AMERICAN GOVERNMENT** Required 10 Credits/Full Year Grade 12

Prerequisite: None

American Government is the study of the principles and practices of our government. Specific areas covered: voting, political parties, Congress, the Presidency, the Supreme Court, our Constitution, and the local, state, and federal forms of government. Additionally, this course will include economic theories including microeconomic and macroeconomic topics.

### **STUDY HALL CRITERIA**

- Enrolled in 4 core or “study” classes (these classes are generally considered not “study” classes: Art classes, Independent living, Industrial Arts classes, Journalism, Music classes and PE classes)  
AND
- Participation in an extracurricular activity that requires 10 or more hours out of school activity per week  
OR
- Outside employment 10 or more hours per week  
IF
- A Student Assistant  
OR
- Participate in senior work release – DO NOT QUALIFY FOR A STUDY HALL

### **SPECIAL EDUCATION**

Special Education at Johnson County Central Public Schools is a dual purpose program that combines vocational and academic content to prepare students for future learning either in post-secondary education or in the work force. What is taught and how it is taught are equally important issues and are determined through the IEP (Individual Education Plan) process.

The IEP process is a team effort to outline the student's course of study during the high school experience. Students will be guided to take coursework which includes essential elements of English, social studies, mathematics, science, health, and vocational education. Classes which emphasize strong expectations and connections to employment and post-secondary education will be selected to help transition students to life after high school.

### **HONOR ROLL**

An honor roll, honoring students achieving high scholastic attainment in academic subjects, will be made up and published by the high school counselor at the end of each nine-week quarter and at the end of each semester. The honor roll will be based on report card grades for each nine weeks and for each semester.

Courses used in the computation of honor roll and class rank will include all courses taken with the exception of pass/fail, Life Skills or Alternative Education courses.

Honor roll recognition will be given to those students receiving no class grade lower than a "B".

Honor roll with distinction recognition will be given to those students who have A's with a maximum of one B and a term average of at least 94%.

### **GRADING SYSTEM**

Grades will be placed on the report card each nine weeks based on the following scale:

100	-	94	=	A
93	-	86	=	B
85	-	78	=	C
77	-	70	=	D
69	-	0	=	F

**JOHNSON COUNTY CENTRAL HIGH SCHOOL**  
**FOUR YEAR PLAN**

**FRESHMAN**

School Year \_\_\_\_\_

English I

General Science

Geography or World History (During 9<sup>th</sup>-10<sup>th</sup> year)

P.E., Health or Strength Training

Math Class

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**SOPHOMORE**

School Year \_\_\_\_\_

English II

Biology I or Applied Biology I

Math Class

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**JUNIOR**

School Year \_\_\_\_\_

English III or Advanced English III

American History

Math Class

Chemistry I or Applied Chemistry

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**SENIOR**

School Year \_\_\_\_\_

English IV or Advanced English IV

American Government

Math Class

Science Class

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