

*Johnson County Central
High School
Registration Handbook*

JCC

“Home of the Thunderbirds”

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GRADUATION REQUIREMENTS FOR JOHNSON COUNTY CENTRAL

LANGUAGE ARTS Must complete 10 hours each of English I, English II, English III, and English IV	40 HOURS
MATHEMATICS Must take a math class during 9 th -10 th -11 th and 12 th grade year	40 HOURS
SOCIAL SCIENCES Must have 10 hours of either Geography or World History and 10 hours each of American History and American Government	30 HOURS
SCIENCE Must have 10 hours each of General Science and Biology I. Must take a science class during 11 th grade.	30 HOURS
PHYSICAL EDUCATION 10 hours (must have Physical Education 9 and Applied Health 9)	10 HOURS
CAREER AND TECHNICAL EDUCATION Must have 10 hours from one or more of the following areas: Agriculture, Business Education, Industrial Arts, or Education	10 HOURS
FINE ARTS Must have 10 hours from one or more of the following areas: Art, Band, or Vocal Music.	10 HOURS
PERSONAL FINANCE (starting with the class of 2024) Must have at least 5 hours from one of the following classes: Personal Finance I, Financial Literacy, or Business Math	5 HOURS
ELECTIVES (70 hours for the class of 2023)	65 HOURS
TOTAL CREDITS	240 HOURS

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 1st, 2nd or 3rd 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

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/1st Semester 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.

COMPANION ANIMALS Elective 5 Credits/2nd Semester Grade 10-11-12

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

Principal and practices for the life cycle and care of companion animals which may include nutrient regimen, breed identification, various infections and non-infectious disease diagnostics and treatment. Anatomy, physiology, parasitic life cycles and internal and external

identification, medication requirements for certain problems and the importance of companion animals in contemporary society. (Dual Credit SENCAP course through SCC)

FOOD SCIENCE AND SAFETY Elective 5 Credits/1st Semester 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/2nd Semester 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.

INTRODUCTION TO HORTICULTURE Elective 5 Credits/1st Semester Grade 10-11-12

Prerequisite: Intro to Agriculture, Food and Natural Resources

Introductory course designed to feature basic aspects and techniques of the horticulture industry. Emphasis will be placed on making the student aware of the different fields within the industry and the proper growing environment for indoor and outdoor horticulture crops. (Dual Credit SENCAP course through SCC)

HORTICULTURE BUSINESS MANAGEMENT Elective 5 Credits/2nd Semester Grade 10-11-12

Prerequisite: Intro to Agriculture, Food and Natural Resources and Introduction to Horticulture

Introduction to management principles in horticulture. Various topics will be discussed that are crucial to the management of a horticultural based business. Students will discuss the start-up of a horticultural based business and the financial knowledge needed to run such a business. (Dual Credit SENCAP course through SCC)

PLANT PROPAGATION Elective 5 Credits/1st Semester Grade 10-11-12

Prerequisite: Intro to Agriculture, Food and Natural Resources

Introductory study of plant propagation and reproduction. Areas of focus include vegetative reproduction, cross pollination and grafting procedures. (Dual Credit SENCAP course through SCC)

AG OCCUPATION EXPLORATION Elective 5 Credits/2nd Semester Grade 10-11-12

Prerequisite: Intro to Agriculture, Food and Natural Resources and Plant Propagation

Overviews of occupations in the field of agribusiness. In-depth exploration of several broad occupational areas and personal interview of at least two agribusiness management level employers. (Dual Credit SENCAP course through SCC)

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 I Elective 5 Credits/1st Semester Grade 9-10-11-12

Prerequisite: None

Business and Personal Finance shows school 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 to see the business applications of finance. This course includes work from the textbook, The National Endowment for Financial Education-Financial Planning Program, and H&R Block's Virtual Business Financial Simulation. It will cover the following topics: personal financial and career planning, money management, consumer protection, banking, credit, insurance and saving/investing, among others. This course meets all requirements for the Nebraska Personal Finance Requirement.

PERSONAL FINANCE II Elective 5 Credits/2nd Semester Grade 9-10-11-12

Prerequisite: Successful completion of Personal Finance I

This course is a continuation of Personal Finance I. It will cover Personal Finance concepts in greater detail and will utilize the H&R Block's Virtual Business Simulation for a Project-Based learning style. This course will also include work from the textbook and The National Endowment for Financial Education-Financial Planning Program. Students will be introduced to the various investment opportunities that exist, as well as a greater understanding of planning their tax strategy and various types of insurance and retirement/estate planning.

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

CNA Elective 1st Semester only Grade 11-12

Prerequisite: There may be a fee to take the exam

This course is open to 11th and 12th 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 "mandatory" 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.

STRIV Elective 10 Credits/Full Year Grade 9-12

Prerequisite: None

This course will be designed to give students a full feel of producing and streaming a Striv event. Students will be involved in setting up and tearing down for the event. They will learn about producing a live stream. Students will know how to do all the roles in Striving, such as operating a camera, producing a live stream, and commentating a game.

Other topics covered will be promoting and recapping events, producing videos and graphics, making commercials, producing an end of the year project and writing and conducting interviews.

This course will also include working on the high school video board. Students will learn to create the media and operate the board at events. They will also be involved in scripting the event taking place, such as when certain media will be played at what time. Students will also be involved in producing starting lineup videos.

This class will include both work done during class and attending/working a number of live events.

COMPUTER SCIENCE Elective 10 Credit/Full Year Grade 10-12

Prerequisite: None; completion of Algebra I preferred

This course is designed to offer an interactive introduction to computer science and the basic building blocks of computer programming using the Python language. The online material emphasizes computational thinking and helps develop the ability to solve complex problems. It gives a foundation in the tools used in computer science and prepares students for further study in computer science, including AP Computer Science courses.

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 20th 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

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 TECHNOLOGY

INTRO TO SKILLED AND TECHNICAL SCIENCES Elective 5 Credits/One Semester Grade 9-10-11-12

Prerequisite: None

This will be a general industrial technology course for learning basic skills. Students must complete this course before they can take any other industrial technology courses. This course provides the skills and technical knowledge for a beginning student in areas of industry, safety, material, equipment and process understanding. The student will develop awareness of the basics in the skilled and technical sciences areas.

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.

INTRO TO DRAFTING AND DESIGN Elective 5 Credits/One Semester Grade 9-10-11-12

Prerequisite: Intro to Skilled and Technical Sciences

This course builds the skills necessary to understand what is being communicated through drawings and documents, and in turn, convey ideas, duties, and tasks to others in a form representing the industry. Students will use and follow industry specific verbal and visual skills to accomplish workplace/jobsite communications. Students will review traditional project phases and various roles within them to plan for and implement phases within a project. Students will develop preliminary drawings that will be used in design and manufacturing. Computer-aided drafting/design (CADD) may be used.

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 TRADES I Elective 5 Credits/One Semester Grade 10-11-12
Prerequisite: Intro to Skilled and Technical Sciences and Intro to Drafting and Design

This course provides an overview of the construction materials, tools and processes.

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 TRADES II Elective 5 Credit/One Semester Grade 10-11-12
Prerequisite: Construction Trades I

This course is designed for the student pursuing a career as a construction professional and combines technical skills with planning and management to prepare the student for all stages of a project.

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 PROCESSES- WOODS Elective 5 Credits/One Semester Grade 10-11-12
Prerequisite: Intro to Skilled and Technical Sciences and Intro to Drafting and Design

Students will be introduced to the basic manufacturing process in wood manufacturing.

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

MANUFACTURING PRODUCTION- WOODS Elective 5 Credits/One Semester Grade 10-11-12
Prerequisite: Intro to Skilled and Technical Sciences and Intro to Drafting and Design

Students will utilize tools and equipment to produce parts and projects within specifications using wood. Students may have a lab fee that will be charged to cover the cost of building a project.

MANUFACTURING PROCESSES- METALS Elective 5 Credits/One Semester Grade 10-11-12
Prerequisite: Intro to Skilled and Technical Sciences and Intro to Drafting and Design

Students will be introduced to the basic manufacturing process in metal manufacturing.

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

MANUFACTURING PRODUCTION- METALS Elective 5 Credits/One Semester Grade 10-11-12
Prerequisite: Intro to Skilled and Technical Sciences and Intro to Drafting and Design

Students will utilize tools and equipment to produce parts and projects within specifications using metal.

Students 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: Intro to Skilled and Technical Sciences and Intro to Drafting and Design

Students will be introduced to the basic manufacturing process in welding manufacturing.

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: Welding I

Welding II is for students that have completed welding I. The students will do welds in positions other than flat. This course is a continuation of learning the knowledge and skills of the welding industry.

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 III Elective 10 Credits/Full Year Grade 12

Prerequisite: Welding II

Students will produce projects and welds to specifications and work towards welding certifications.

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.

JOURNALISM Elective 10 Credits/Full Year Grade 11-12

Prerequisite: Students in grades 9th & 10th 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.

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

Prerequisite: Proficiency Exam

Spanish I will provide the student with a general introduction to the Spanish language: sound system, pronunciation, functional vocabulary related to everyday life, cultural information and basic grammatical structures. Emphasis will be on the acquisition of four skills: Listening, speaking, reading and limited writing. There are two main objectives to the course. Foremost is to give the students the ability to carry on a simple conversation. The second is to provide the students with instruction that teaches a basic understanding of Spanish culture, vocabulary, and grammatical concepts.

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

Prerequisite: Proficiency Exam

The knowledge acquired in the first year is expanded to include a much larger vocabulary, a more thorough study of sentence structure and verb forms, and greater opportunity to develop increased fluency in the use of Spanish both orally and written. Considerable emphasis is also placed upon the ability to understand the spoken language. The study of the history and culture of the Spanish-speaking world is continued.

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

Prerequisite: Proficiency exam or permission of teacher

This course will build upon the language knowledge that students bring to the classroom and advance their proficiency of Spanish for multiple contexts. Students are introduced to the Hispanic/Latino history and culture, enhance their vocabulary and ability to speak in Spanish, learn the grammatical aspects and spelling of Spanish, understand and appreciate the regionalisms that exist and be exposed to all kinds of literary works in Spanish.

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

Prerequisite: Spanish Heritage Language I

This course will build even more upon the language knowledge that students bring to the classroom and advance their proficiency of Spanish for multiple contexts. This second year course will continue on what was learned in Heritage Language Learner I course.

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. The completion of this class satisfies the personal finance requirement.

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/1st 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/2nd 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/2nd 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/1st 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.

FINANCIAL LITERACY Elective 5 Credits/One Semester Grades 9-10-11-12

Prerequisite: None

Students will learn the knowledge and skills regarding budget and financial record keeping; banking; taxes; establishing, building, maintaining, and monitoring credit; debt; savings; risk management; insurance; and investment strategies in this course. This course DOES NOT count towards a student's required math credits for graduation. However, the successful completion of this course does satisfy the personal finance requirement.

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.

LIFETIME ACTIVITIES Elective 10 Credits/Full Year Grade 10-11-12

Prerequisite: Physical Education 9

This course includes basic skills, knowledge and strategies of lifetime activities that contribute to a healthy, active adult lifestyle. Students will participate in a variety of lone, duo, and group lifetime activities.

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.

TEAM GAMES Elective 10 Credits/Full Year Grade 10-11-12

Prerequisite: None

This course is designed to teach a variety of rules, skills, fundamentals, and strategies in multiple team activities. The content will promote a healthy, active lifestyle while emphasizing safety, sportsmanship, and teamwork.

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.

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.

BOTANY Elective 10 Credits/Full Year Grade 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)

CHEMISTRY I Elective 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.

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

Prerequisite: Biology I with a C or above

This is a course that will enable students to develop an understanding of the relationships between the structures and functions of the human body. This course is preparation for advanced biological studies, biomedical nursing and other science based careers. 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.

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.

PSYCHOLOGY Elective 5 Credits/1st 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.

HUMAN GROWTH AND DEVELOPMENT Elective 5 Credits/2nd Semester Grade 11-12

Prerequisite: None

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.

IAG (Jobs for America's Graduates)

This is an elective course and it's a yearlong class worth 10 credits for all grades. As part of this class, students build relationships with local employers, learn skills to write and improve cover letters and resumes, interview with employers effectively, engage in project-based learning, develop leadership and civic and social responsibility through a student-led career association, and engage in career research that will lay the foundation for job opportunities after high school graduation. Students can take this class each year of high school.

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 9th-10th year)

P.E., Health or Strength Training

Math Class

SOPHOMORE

School Year _____

English II

Biology I

Math Class

JUNIOR

School Year _____

English III or Advanced English III

American History

Math Class

Any Science Class

SENIOR

School Year _____

English IV or Advanced English IV

American Government

Math Class
