

ON-GOING - PowerSchool Updated 1/23/23

Link to state course codes/descriptions -

[Course Codes and Clearing Endorsement Look Up Utility](#)

Please complete the following -

- 1) **Make sure the courses that you teach are listed somewhere below. Add any needed courses and remove any courses that are no longer taught.**
 - 2) **Figure out the state # for each class that you teach (see above link) and add the appropriate state # to each of your classes.**
 - 3) **Edit/fix course descriptions of courses you teach (as needed).**
 - 4) **Edit/fix any other errors you see in any classes you teach.**
-

COURSE: College Now Independent Study

STATE COURSE # (If applicable):

AREA OF STUDY: Independent Study

COURSE LENGTH: One or Two Semesters

COURSE TYPE: Elective

PREREQUISITE: Parent Permission and Behavior/Student Contract Signed

GRADE AVAILABILITY: 11 and/or 12

COURSE DESCRIPTION:

This is an opportunity for students to take online college classes as electives while they are in high school. Independent Study can be done outside of school day or done for one period a day during the school day as (CNIS). Students may enroll in CNIS for the entire year (this means the student will enroll in a Fall Term MCC class, a Winter Term MCC class, and a Spring Term MCC class) online. Students may also enroll in CNIS for a single semester (either fall or spring) but will be required to take a minimum of two sequential terms of MCC classes – this will create an overhang effect!! All required textbooks are at the student's own expense. Students will meet with the counselor to identify potential college courses to register for and how they can articulate on to other places/programs in the future. The students' grades are based on the grade assigned by the college professor and following the IS online student expectations contract.

COURSE: Teacher's Aide

STATE COURSE # (If applicable):

AREA OF STUDY: Elective

COURSE LENGTH: Typically one year but might be One Semester with teacher approval

COURSE TYPE: Elective

PREREQUISITE: NA

GRADE AVAILABILITY: 12

COURSE DESCRIPTION:

This course is designed to provide students with opportunities to grow as people and to learn to work with others. In this class, students will be assigned to work under the supervision of a teacher, or other school personnel (building secretary, counselor, school nurse). They will be expected to do typing, filing, duplicating, assisting in preparation of non-student, non-confidential records, etc.

They may be assigned to do other such projects such as creating, preparing and posting bulletin boards and making room or hall displays and working with individual students in a supervised setting. In specialized areas such as shop, science labs, etc., they must be able to assist in maintenance and repair of equipment and/or taking care of laboratory supplies and equipment. Students will be graded in a variety of ways including – preparatory self-analysis, weekly logs, quarterly projects, and their supervising teacher's evaluation of their work and personal growth.

COURSE: Metro Community College Academy

STATE COURSE # (If applicable):

AREA OF STUDY: Elective

COURSE LENGTH: One Year

COURSE TYPE: Elective

PREREQUISITE: Selection to the Academy (application due to MCC in February each year) and must be on target to graduate on time and in good standing with FCHS

GRADE AVAILABILITY: 11 and/or 12

COURSE DESCRIPTION:

This course is a multi-period course designed to allow the student to participate in the Career Academy program at Metropolitan Community College in Omaha. These academies are designed to offer specific technical career preparation at a half price rate for high school students. Students must apply and be accepted to MCC's academy program. Once the student has been selected their schedule will reflect four classes at Fort Calhoun High School with the rest of their day assigned to Metro Community College Academy. Cost of any required books/tools, and the transportation to the Metro Community College campus are at the student's own cost. If the days that Academy classes do not meet, Fort Calhoun High School students will still be released from school, to compensate them for the extra time they are putting into their college class(es). For more information please go online to:

<https://www.mccneb.edu/Prospective-Students/Start-Here/Enrollment-FAQ/Secondary-Partnerships/Career-Academy>

COURSE: Guided Study Hall & Engaged Study Halls

STATE COURSE # (If applicable): 260300

AREA OF STUDY: Academic Assistance

COURSE LENGTH: Two Semesters

COURSE TYPE: Elective

PREREQUISITE: Must qualify for services under Special Education or 504 Plan

GRADE AVAILABILITY: 9, 10, 11, & 12

COURSE DESCRIPTION:

Learning experiences which develop skills necessary to locate, interpret, understand and use information. Topics included are such reading skills as surveying, skimming, scanning and SQ3R. Additionally, alphabetizing, summarizing, paraphrasing, outlining, note-taking and test-taking skills may be included, as may library, research, and time management skills.

COURSE: Art 1 & 2 (Composition & Form)

STATE COURSE # (If applicable): 020100

AREA OF STUDY: Art

COURSE LENGTH: Two Semesters

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 9, 10, 11, & 12

COURSE DESCRIPTION:

Develop knowledge of the elements of art. Develop skills so that students can draw realistically through a series of exercises (units) that will enable the students to draw what they see. Students will then put these skills together to create unique works of art. Drawing will be at the foundation of the course, but a large variety of subjects and media will be introduced throughout the course. The idea is to expose the students to a large variety of media in smaller and shorter lessons, and then expand and combine those media's in future art courses.

This information will be presented through the use of presentations, demonstrations, reading, vocabulary words, examples of other artists, and guided work time. A review will precede each test given. The review will cover the material taught in the class.

COURSE: Art 3 & 4 (Color & Value)

STATE COURSE # (If applicable): 020200

AREA OF STUDY: Art

COURSE LENGTH: Two Semesters **COURSE**

TYPE: Elective

PREREQUISITE: Art 1 & 2

GRADE AVAILABILITY: 10, 11, & 12

COURSE DESCRIPTION:

Expand on the knowledge gained in Art 1 & 2. Gain an understanding of the elements of art and the principles of design. Develop skills in watercolor, acrylic paints, colored pencils, chalk pastels, oil pastels, ink, markers, and pencils. Students will use these skills to express themselves. This information will be presented through the use of presentations, demonstrations, reading, vocabulary words, examples of other artists, and guided work time. A review will precede each test given. The review will cover the material covered in class.

COURSE: Art 5 & 6 (2D & 3D Design)

STATE COURSE # (If applicable): 020300

AREA OF STUDY: Art

COURSE LENGTH: Two Semesters

COURSE TYPE: Elective

PREREQUISITE: Art 1 & 2 and Art 3 & 4

GRADE AVAILABILITY: 11 & 12

COURSE DESCRIPTION:

Expand on the knowledge gained in previous art courses. Develop a better understanding of the elements and principles of design. This will be accomplished by using different medias with each project having an emphasis on one or more of the elements of art or principles of design. Some of the medias to be used will involve pencils, markers, ink, pastels, watercolors, acrylics, computers, cameras, digital photography, clay, plaster, and collages. Students will also develop an understanding that art is a visual language. Students will be evaluated over this information as well as critique themselves and one another.

COURSE: Independent Art

STATE COURSE # (If applicable):

AREA OF STUDY: Art

COURSE LENGTH: Two Semesters

COURSE TYPE: Elective

PREREQUISITE: Art 1, 2, 3, 4, 5, 6 & Independent Art

GRADE AVAILABILITY: 12

COURSE DESCRIPTION:

This course is an in-depth studio experience for the student who desires further work in advanced art skills. The course will culminate with preparation of a portfolio, which will assist in the entrance into a post-secondary art program.

COURSE: Independent Art

STATE COURSE # (If applicable): 020400

AREA OF STUDY: Art

COURSE LENGTH: Two Semesters

COURSE TYPE: Elective

PREREQUISITE: Art 1 & 2, Art 3 & 4, Art 5 & 6

GRADE AVAILABILITY: 12

COURSE DESCRIPTION:

This course is set up on a contract basis. The contract includes 4 projects per quarter, a sketchbook, and weekly progress logs. Students will explore their areas of interest in the field of art.

COURSE: Accounting I

STATE COURSE # (If applicable): 030501

AREA OF STUDY: Business

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: Personal Finance

GRADE AVAILABILITY: 10, 11, 12

COURSE DESCRIPTION:

Any student considering a business focus after high school should take this course. Students will learn to analyze business transactions, record them in journals and prepare financial statements for businesses. Major areas to be studied include the accounting cycle, payroll procedures, and subsidiary ledger. Students receive realistic experience by completing business simulations. The course provides an excellent background for students entering any type of business as well as those interested in business administration or accounting as a major in college. An "Accounting Simulation" packet will also be completed. Grading is based upon application problems, tests, quizzes and various projects.

COURSE: Accounting II

STATE COURSE # (If applicable): 030502

AREA OF STUDY: Business

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: Accounting I

GRADE AVAILABILITY: 11, 12

COURSE DESCRIPTION:

This is the second level of accounting. This course gives attention to partnership and corporate accounting, the use of departmental accounts, and an overview of cost accounting. An "Accounting Simulation" packet will also be completed. Grading is based upon application problems, tests, quizzes and various projects.

COURSE: Advanced Accounting (Accounting III)

STATE COURSE # (If applicable): 030503

AREA OF STUDY: Business

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: Accounting I and II

GRADE AVAILABILITY: 11, 12

COURSE DESCRIPTION:

This course is designed for high school students to refresh, improve, and broaden knowledge mastered in Accounting. Students will complete adjustments and valuation for a merchandising business organized as a corporation. Areas of focus in this course include accounting for plant assets, depreciation, intangible

assets, inventory, accruals, deferrals, and reversing entries.

COURSE: Adulting 101

STATE COURSE # (If applicable): 033002

AREA OF STUDY: Business

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 12

COURSE DESCRIPTION:

This course focuses on preparing seniors for the realities of life now and after high school graduation.

Key topics discussed:

- Financial skills (budgeting, taxes, credit cards, loans, insurance, etc.)
 - Relationship skills
 - College and career preparation
 - Domestic skills (clothing care, food/kitchen basics, vehicle maintenance, etc.)
-

COURSE: Business Communications

STATE COURSE # (If applicable): 030600

AREA OF STUDY: Business

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 10, 11, 12

COURSE DESCRIPTION:

Business Communication impacts all aspects of our lives. This introductory course will teach students to communicate in a clear, courteous, concise, complete and correct manner on both personal and professional levels.

Topics Include:

- What is communication?
 - Listening Skills
 - Reading/Summarizing/Note Taking
 - Diversity/Cultural Communication
 - Nonverbal Communication
 - Verbal Communication (Professionalism, Teamwork, Meetings)
 - Written and Electronic Communication
 - Employment Communication
 - Communicating Negative Messages
 - Interpersonal and Group Communication
-

COURSE: Management and Leadership

STATE COURSE # (If applicable): 032802

AREA OF STUDY: Business

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 10, 11, 12

COURSE DESCRIPTION:

The purpose of this course is to help students develop leadership skills necessary for success in business careers through effective communications, problem-solving techniques, and managing resources and meetings.

Topics Include:

- Skills needed to be a manager and leader
- Communication skills
- Teamwork
- Management Functions
- Managers vs Leaders
- Traits of managers and leaders
- Leadership and Management Styles
- Development of Managers and Leaders

COURSE: Marketing

STATE COURSE # (If applicable): 038100

AREA OF STUDY: Business

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: Personal Finance

GRADE AVAILABILITY: 10, 11, 12

COURSE DESCRIPTION:

This class is for students with interest in the exciting world of marketing. Topics covered include: economics, consumer markets, market research, distribution methods, product planning and the four P's – Produce, Price, Place and Promotion. The course provides an excellent background for students entering any type of business as well as those interested in business administration or marketing as a major in college.

COURSE: Personal Finance

STATE COURSE # (If applicable): 033000

AREA OF STUDY: Business

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 9, 10, 11, 12

COURSE DESCRIPTION:

Financial literacy is essential in meeting the financial challenge of the 21st Century. The competencies, which form the basis for the semester course, enable students to analyze their personal financial decisions, evaluate the cost and benefits of their decisions, recognize their rights and responsibilities as consumers, and apply the knowledge learned in school to financial situations encountered later in life. This course will help students gain knowledge of banking services, how to use credit wisely, plan savings and investments, set personal finance goals, select appropriate insurance coverage, and develop techniques for personal financial management.

COURSE: Principles of Business
STATE COURSE # (If applicable): 032300
AREA OF STUDY: Business
COURSE LENGTH: One Semester
COURSE TYPE: Elective
PREREQUISITE: Personal Finance
GRADE AVAILABILITY: 10, 11, 12
COURSE DESCRIPTION:

The course is designed to provide information on business concepts and skills students need in today's competitive business environment. Units of study include major business concepts, such as finance, marketing, operations, and management. Students gain valuable information and skills for the workplace. Grading is based on daily assignments, Quizzes, tests and projects. Topics to be covered: Business in the global economic environment; business organization and management; business operations and technology; personal financial management; managing your career.

COURSE: IT Fundamentals
STATE COURSE # (If applicable): 270504
AREA OF STUDY: Technology
COURSE LENGTH: One Semester
COURSE TYPE: Required
PREREQUISITE: None
GRADE AVAILABILITY: 9, 10, 11, 12
COURSE DESCRIPTION:

Students will explore emerging technologies as it applies to success in high school, college, and career. This course develops the students' abilities to analyze, evaluate, strategize, and reflect upon technologies such as computer hardware, computer software, web technologies, databases, networking, security, and software development. There will be an added focus on the importance of digital citizenship, professional communication practices, advanced document processing, professional presentations, and intermediate spreadsheet applications used personally and professionally. Students will also be introduced to ever-changing information technology careers along with developing positive and ethical behaviors/practices.

COURSE: Computer Science Principles
STATE COURSE # (If applicable): 270704
AREA OF STUDY: Technology
COURSE LENGTH: One Semester
COURSE TYPE: Elective
PREREQUISITE: None
GRADE AVAILABILITY: 9, 10, 11, 12
COURSE DESCRIPTION:

Foundations of Computing is designed for students who have never programmed before and serves as a starting point for Computer Science. Using the Code.org platform, students will explore the impact of computing on society. Beyond learning the fundamentals of programming,

students build computational-thinking skills by applying computer science to collaboration tools, modeling and simulation, and data analysis.

COURSE: Digital Art 1

STATE COURSE # (If applicable): 270602

AREA OF STUDY: Technology/Art

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 9, 10, 11, 12

COURSE DESCRIPTION:

Students will learn and apply copyright laws while using the Adobe Creative Cloud and other industry standard digital tools to create, design, and produce digital media including sound, video, motion graphics, and print design following rules of composition and design principles. An emphasis will be placed on Adobe Photoshop, Illustrator, Premiere Pro and Animate.

COURSE: Digital Art 2

STATE COURSE # (If applicable): 270611

AREA OF STUDY: Technology/Art

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: Digital Art 1

GRADE AVAILABILITY: 9, 10, 11, 12

COURSE DESCRIPTION:

Students will focus on developing skills to plan, design, and create digital design projects using elements of composition, digital photography, and digital print design. An emphasis will be placed on Adobe Lightroom, Photoshop, Illustrator, and Premiere Pro.

COURSE: Digital Art 3

STATE COURSE # (If applicable): 270613

AREA OF STUDY: Technology/Art

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: Digital Art 1, 2

GRADE AVAILABILITY: 10, 11, 12

COURSE DESCRIPTION:

Students will focus on utilizing advanced skills to plan, design, and create a design portfolio using the Adobe Creative Cloud and other industry software to showcase elements of composition, digital photography, or digital print design. The primary output of this course will be graphic design and related content for the LED boards in the main gym at FCHS. These skills will prepare students for entry-level positions in the digital design field.

COURSE: Digital Art 4

STATE COURSE # (If applicable): 270613

AREA OF STUDY: Technology/Art

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: Digital Art 1, 2, 3

GRADE AVAILABILITY: 10, 11, 12

COURSE DESCRIPTION:

Students will focus on utilizing advanced skills to plan, design, and create a design portfolio using the Adobe Creative Cloud and other industry software to showcase elements of composition, digital photography, or digital print design. The primary output of this course will be graphic design and related content for the LED boards in the main gym at FCHS. An added focus on external client design projects will also be added. These skills will prepare students for entry-level positions in the digital design field.

COURSE: English 9

STATE COURSE # (If applicable):

AREA OF STUDY: English

COURSE LENGTH: One Semester

COURSE TYPE: Required

PREREQUISITE: None

GRADE AVAILABILITY: 9

COURSE DESCRIPTION:

9th Grade English is designed to develop students' reading literacies of a variety of genres through fiction and nonfiction texts. Students will also learn and apply the writing process to plan, draft, revise, edit, and publish writing using correct spelling, grammar, punctuation, and other standard conventions. Students will be required to participate in class discussions, activities, and group work.

COURSE: English 10

STATE COURSE # (If applicable):

AREA OF STUDY: English

COURSE LENGTH: One Semester

COURSE TYPE: Required

PREREQUISITE: English 9

GRADE AVAILABILITY: 10

COURSE DESCRIPTION:

In English 10 we will study literature with a strong focus on developing your written, reading, oral, and comprehension skills to further build strategies for successful critical thinking and analysis. Students will also reflect individually on their own learning and experiences to connect literature to their own skills in relation to the topics being explored and literature engaged in. Literary selections include Macbeth and The Strange Case of Dr. Jekyll and Mr. Hyde.

COURSE: English 11

STATE COURSE # (If applicable): 050023

AREA OF STUDY: English

COURSE LENGTH: One Semester Each

COURSE TYPE: Required

PREREQUISITE: English 10

GRADE AVAILABILITY: 11 & 12

COURSE DESCRIPTION:

This course provides students with a thorough grounding in American Literature spanning from the early (Native American) to contemporary (20th Century +) periods. Through the readings in the textbook, novels, and supplemental literature, students will explore and become familiar with a variety of genres, literary devices/techniques, authors and their purposes, cultural/societal influences, and our personal connections with the readings. Students will compose a variety of writing assignments, both formal and informal, with the integration of one, some, or all aspects of the Six Traits of Writing and MLA Style/Format. Grammar, usage, vocabulary, and group projects will be incorporated into the course as well.

COURSE: English 12

STATE COURSE # (If applicable): 050024

AREA OF STUDY: English

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: English 11

GRADE AVAILABILITY: 11 & 12

COURSE DESCRIPTION:

English 12 explores a variety of genres from short stories and memoirs to Shakespeare. Students will analyze literary devices/techniques, authors and their purpose, and cultural/societal influences. Students will compose a variety of writing assignments, both formal and informal, with the integration of one, some, or all aspects of the Six Traits of Writing and MLA Style/Format. And particularly, students will write analytical compositions that explore the literature read. Grammar, usage, vocabulary, and group projects will be incorporated into the course as well.

COURSE: Advanced Speech and Debate

STATE COURSE # (If applicable):

AREA OF STUDY: English

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 9, 10, 11 & 12

COURSE DESCRIPTION:

Advance Speech and Debate is a one-semester course aimed at further developing skills in communication, public speaking, dramatic interpretation, and persuasion. Students will continue to refine diction, articulation, enunciation, and projection skills while applying more advanced techniques of public speaking. Students will also fine-tune researching, argumentation, questioning and rebuttal skills. Additionally, students will apply skills of evaluation and analysis of presentations and performances.

COURSE: Webmasters

STATE COURSE # (If applicable):

AREA OF STUDY: English

COURSE LENGTH: Every Other Year

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 9, 10, 11 & 12

COURSE DESCRIPTION:

This is a class that is designed around technology and journalism. This class will provide you with ample opportunities to mesh English skills with the use of technology. This will be a

workshop=based class where the students take ownership of the classes content. Students will create and run a school website posting various products as assigned.

COURSE: Workplace Writing

STATE COURSE # (If applicable):

AREA OF STUDY: English

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 9, 10, 11 & 12

COURSE DESCRIPTION:

This is a one-semester course for students who wish to develop their skills in working with frequently used workplace documents and genres in both traditional and electronic formats. Students will also explore career options based on personality and skills. Course activities and assessments help students learn to create structurally effective, grammatically accurate and contextually appropriate documents. Target genres will include business letters, emails, newsletters, and professional portfolios. Coursework will emphasize the development of grammatical accuracy, effective writing from evidence, and reader-centered business writing. Students will also develop skills in creating effective public presentations and interpersonal communications.

COURSE: Multicultural Literature

STATE COURSE # (If applicable):

AREA OF STUDY: English

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 9, 10, 11 & 12

COURSE DESCRIPTION:

This course works to help students expand their knowledge of various cultures and authors. Students will read both fiction and nonfiction texts and articles. Students will not only read works such as novels and short stories from diverse authors, they will learn more about the cultures represented in those selections as well. Students will engage in comprehension and analysis activities in order to further their understanding of the writing, cultures, and themes explored in each selection. Novel selections will include: *Persepolis*, *Farewell to Manzanar*, and *The House on Mango Street*.

COURSE: Contemporary Literature

STATE COURSE # (If applicable):

AREA OF STUDY: English

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 9, 10, 11 & 12

COURSE DESCRIPTION:

This course challenges students to improve their written and oral communication skills, while strengthening their ability to understand and analyze literature in a variety of genres. Students will read

primarily novels with supplemental texts that go along with those novels, as well as be exposed to contemporary film genres. The course guides students in the close reading and critical analysis of works of literature, and helps them appreciate the texts and the connections made to major themes of literature. Literary selections range from classic works such as Fahrenheit 451, Lord of the Flies, and The Hitchhiker's Guide to the Galaxy.

COURSE: College English Dual Credit MCC

STATE COURSE # (If applicable):

AREA OF STUDY: English

COURSE LENGTH: Two Semesters

COURSE TYPE: Elective

PREREQUISITE:

- English Composition I (1010): Grade of C+ or higher in English 11; grade of "C" or higher in previous English classes.
- English Composition II (1020): Grade of C or higher in English Composition I (1010).

GRADE AVAILABILITY: 12 COURSE

DESCRIPTION:

English Composition I (1010) and II (1020) are workshop classes in essay writing designed to prepare you for higher learning at the collegiate level. Students improve their critical reading skills and learn processes and strategies for writing in a variety of genres. Students develop and support a main idea for a particular audience. Students practice strategies for selecting a topic, collecting and focusing ideas, organizing your thoughts, supporting your ideas with evidence, and revising and editing to strengthen your writing skills and style. In 1010, students develop rhetorical knowledge; practice critical reading, thinking, and writing; and use a writing process to draft, revise, and edit texts in a variety of genres with an emphasis on thesis-driven essays. In 1020, students further develop the skills learned in ENGL 1010 as they interpret, synthesize, and organize primary and secondary sources of information for the purpose of composing a research report.

COURSE: Communications

STATE COURSE # (If applicable):

AREA OF STUDY: English

COURSE LENGTH: One Semester

COURSE TYPE: Required

PREREQUISITE: None

GRADE AVAILABILITY: 9

COURSE DESCRIPTION:

Communications is a one-semester course aimed at introducing you to the basic concepts of communication. You will learn skills and techniques essential to effective communication in settings that include: Intrapersonal (with yourself), interpersonal (face-to-face), small group (face-to face with a few), and public speaking (one to many). You will apply these skills and techniques through practical exercises that will enable you to incorporate them into your daily life.

COURSE: Creative Writing

STATE COURSE # (If applicable):

AREA OF STUDY: English

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 9, 10, 11 & 12

COURSE DESCRIPTION:

This course is designed to give students the opportunity to think and write creatively and to expose you to various forms of writing without the restrictions of a regular English class. The goal is to encourage you to love writing and to guide you as you refine your craft. Writing can clarify, heal, excite, encourage, remind, inspire, and make the world a better place. This class is the beginning for you to be a poet, a free-lance writer, a storyteller, and essayist, a non-fiction writer, or whatever you choose to become as a writer.

COURSE: Introduction to Theatre

STATE COURSE # (If applicable):

AREA OF STUDY: English

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 9, 10, 11 & 12

COURSE DESCRIPTION:

Introduction to Theatre/Drama is designed to introduce students to the various arts that create a complete theatrical production: acting, sets, costumes, lights, sound, make-up, etc. This course provides opportunities for students to explore theatre skills and techniques. Students will learn the fundamentals of theatre through projects, including the creation and performance of short scenes and ensemble acting. Additional studies will include technical theatre and theatre critique and analysis.

COURSE: Yearbook

STATE COURSE #: 021231/021232

AREA OF STUDY: English

COURSE LENGTH: Two Semesters

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 9, 10, 11, & 12

COURSE DESCRIPTION:

This course allows students to learn the fundamentals of yearbook production, including designing the yearbook, doing photography, writing and editing copy, doing page designs and page layouts, acquiring advertising, marketing the book, managing sales, and distributing the final copy. In addition, students are expected to assume leadership management roles as requested and as assigned in the planning and production of the yearbook.

COURSE: Spanish 1

STATE COURSE # (If applicable): 060241

AREA OF STUDY: Foreign Language

COURSE LENGTH: Two Semesters

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 9, 10, 11, & 12

COURSE DESCRIPTION:

This beginning course includes the study of speaking, listening, reading, writing, and culture of the people. Students will be able to understand familiar words and very basic phrases concerning themselves, their family and immediate surroundings when people speak slowly and clearly. They will be able to understand familiar names, words, and very simple sentences and ask and answer simple

questions in the areas of immediate need or on very familiar topics. Students will be able to use and write simple phrases and sentences to describe situations. This course should help students gain insight into the nature of their own language and culture and apply the language and cultural knowledge within and beyond the school setting.

COURSE: Spanish 2

STATE COURSE # (If applicable): 060242

AREA OF STUDY: Foreign Language

COURSE LENGTH: Two Semesters

COURSE TYPE: Elective

PREREQUISITE: Spanish 1

GRADE AVAILABILITY: 10, 11, & 12

COURSE DESCRIPTION:

This course enables students to understand phrases and commonly used vocabulary related to areas of personal relevance and recognize the main point in short, clear, simple messages and announcements. Students will be able to read very short, simple texts and find specific, predictable information in simple everyday materials. Students can communicate in simple and routine tasks requiring a direct exchange of information on familiar topics and activities. They will be able to handle very short social exchanges and use a series of phrases and sentences to describe in simple terms their family and other people. This course should help students gain insight into the nature of their own language and culture and apply the language and cultural knowledge within and beyond the school setting.

COURSE: Spanish 3

STATE COURSE # (If applicable): 060243

AREA OF STUDY: Foreign Language

COURSE LENGTH: Two Semesters

COURSE TYPE: Elective

PREREQUISITE: Spanish 1 and 2

GRADE AVAILABILITY: 10, 11, & 12

COURSE DESCRIPTION:

This course enables students to understand main points in a conversation on familiar matters regularly encountered in work, school, leisure, etc. Students will be able to understand the main point of radio or TV programs on current affairs or topics of interest when the delivery is relatively slow and clear and understand texts that consist mainly of everyday language. They can understand the description of events, feelings and wishes in personal letters and deal with basic situations likely to arise when traveling in an area where the language is spoken. Students are able to enter into conversations on topics that are familiar and connect phrases in order to describe experiences and events. Students will be able to write simple connected text and letters on topics, which are familiar, or of personal interest. This course should help students gain insight into the nature of their own language and culture and apply the language and cultural knowledge within and beyond the school setting.

COURSE: Spanish 4 (MCC Dual enrollment)

STATE COURSE # (If applicable): 060244

AREA OF STUDY: Foreign Language

COURSE LENGTH: Two Semesters

COURSE TYPE: Elective

PREREQUISITE: Spanish 3

GRADE AVAILABILITY: 10, 11, & 12

COURSE DESCRIPTION:

This course enables students to understand extended conversations provided the topic is reasonably familiar, some TV news, current affairs programs, and films in standard language. Students will be able to read articles and literary prose in which the writers adopt particular attitudes or viewpoints. Students can interact with a degree of competency and take an active part in discussion in familiar contexts. Students will be able to present clear, detailed descriptions and write clear, detailed texts on subjects related to their interests. Students can write text that conveys information and letters highlighting the personal significance of events and experiences. This course should help students gain insight into the nature of their own language and culture and apply the language and cultural knowledge within and beyond the school setting.

This course is offered for MCC credit via dual enrollment during the spring semester.

COURSE: College Psychology

STATE COURSE # (If applicable):

AREA OF STUDY: History

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 11 & 12

COURSE DESCRIPTION:

The student learns a broad overview of the general field, fundamental principles and methods of psychology. This course is designed to be a transferable course. Main topics include physiological psychology, learning, memory, human growth and development, personality, motivation and emotion, social psychology, abnormal behavior and therapeutic approaches.

COURSE: College Sociology

STATE COURSE # (If applicable):

AREA OF STUDY: History

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 11 & 12

COURSE DESCRIPTION:

This course involves an introduction to the scientific study of society and human social behavior; focuses on the concepts of research methods, research findings, sociological theories, society, institutions, groups, social structure, culture, social interaction, socialization, social problems, social inequality, and social change; and is designed to be transferable.

COURSE: Modern Problems

STATE COURSE # (If applicable): 151103

AREA OF STUDY: History

COURSE LENGTH: One Semester

COURSE TYPE: Required

PREREQUISITE: None

GRADE AVAILABILITY: 12

COURSE DESCRIPTION:

This course focuses on the public policy process in the United States: how potential ideas for government action are translated from concepts into reality. Students will know what public policy problems are, some theoretical explanations for why they happen, and how we solve them through political processes. Students will study public policy problems of current importance and perspectives on what to do about them, and be able to compare and analyze solutions to policy problems from various approaches to policy analysis. Students will also be able to clearly communicate ideas through writing and classroom discussions.

COURSE: World Geography

STATE COURSE # (If applicable):

AREA OF STUDY: History

COURSE LENGTH: One Semester

COURSE TYPE: Required

PREREQUISITE: None

GRADE AVAILABILITY: 9 & 10

COURSE DESCRIPTION:

World Geography will present you with opportunities to learn about places, regions, physical systems, human systems and environments, and applying geography to specific events and places.

COURSE: World History

STATE COURSE # (If applicable):

AREA OF STUDY: History

COURSE LENGTH: One Semester

COURSE TYPE: Required

PREREQUISITE: None

GRADE AVAILABILITY: 9 & 10

COURSE DESCRIPTION:

This course will present you with opportunities to learn about places, regions, religions, specific events, concepts, eras, and human themes throughout human's existence in the world.

COURSE: American History

STATE COURSE # (If applicable): 150820

AREA OF STUDY: History

COURSE LENGTH: Two Semesters

COURSE TYPE: Required

PREREQUISITE: None

GRADE AVAILABILITY: 11

COURSE DESCRIPTION:

American History will start at the Civil War and end in current times. Students will study the major events and their impact on the United States. Students will discuss people, events, culture and legacies of history. Study and discussion will come through reading, research, tests and presentations.

COURSE: American Government

STATE COURSE # (If applicable): 151110

AREA OF STUDY: History

COURSE LENGTH: One Semester

COURSE TYPE: Required

PREREQUISITE: None

GRADE AVAILABILITY: 12

COURSE DESCRIPTION:

American Government is the study of our American political system, analyzing its structure, function, and dependent relationship using the Constitution as our guide. Students will study the citizens' role in the political system and the affect of their participation. Students will stay current with the political news using the Omaha World-Herald and national magazines. Students will also study in detail the state government of Nebraska.

COURSE: Advanced Drafting

STATE COURSE # (If applicable):100141

AREA OF STUDY: Industrial Technology

COURSE LENGTH: Two Semesters

COURSE TYPE: Elective

PREREQUISITE: Drafting 1 & 2

GRADE AVAILABILITY: 11 & 12

COURSE DESCRIPTION:

This course will instruct students on the operation of (Computer Aided Drafting Software) systems used in the drafting and manufacturing fields. Students will learn to interpret many different types of drawings and be able to use this information to convert a complex machine part into a working drawing. Students will also extend their skills in architectural and civil areas. Mode of presentation: Lecture, group work, demonstrations and lab work. Grading procedures: Tests, quizzes, lab projects and daily work. Student skills, knowledge to be gained: to demonstrate skills and knowledge in mechanical, architectural, and civil drawing; to develop confidence in solving complex drafting problems; to identify hidden features in various drawings; to demonstrate quality work with emphasis on accuracy; to incorporate math and English skills in conveyance of drawings; to attain a vocabulary in alignment with design careers.

COURSE: Building Construction

STATE COURSE # (If applicable): 100110

AREA OF STUDY: Industrial Technology

COURSE LENGTH: Year - 2 Period Class

COURSE TYPE:

Elective PREREQUISITE: Woods Class

GRADE AVAILABILITY: 10, 11, 12

COURSE DESCRIPTION:

The students will experience basic residential construction activities. The lab time will be spent on and off campus, depending on the project and the time of year. Unprotected work such as placing concrete, block and brick laying and exterior framing are fall and spring activities. Cabinet making, Construction Shop cleanliness and upkeep, and interior finishing are examples of activities that can be done indoors. Students in architecture and construction should take this class. Grading procedure: Tests, quizzes, major projects, paper/essays, lab projects class participation, and Cleanliness. Student skills, knowledge to be gained: To safely operate tools and equipment; to perform concrete placement; to demonstrate and understanding of block and brick laying; to understand rough framing; to understand exterior carpentry; to understand interior carpentry; to demonstrate the knowledge of electrical construction; to gain knowledge of land surveying; to attain knowledge of site preparation and building layout.

COURSE: Construction Management
STATE COURSE # (If applicable): 100120
AREA OF STUDY: Industrial Technology
COURSE LENGTH: One Semester
COURSE TYPE: Elective
PREREQUISITE: Woods
GRADE AVAILABILITY: 10, 11 & 12
COURSE DESCRIPTION:

This course will introduce the student to the planning and estimating side of construction. The student will explore all areas of construction; including blue print reading, design, estimating, and planning. The class will also cover the various operations of the construction industry including; basic masonry, carpentry practices, framing interior and exterior finishing. The class will involve in-class study.

COURSE: Drafting I
STATE COURSE # (If applicable):100130
AREA OF STUDY: Industrial Technology
COURSE LENGTH: One Semester
COURSE TYPE: Elective
PREREQUISITE: None
GRADE AVAILABILITY: 9, 10, 11 & 12
COURSE DESCRIPTION:

Drafting is designed to introduce students to basic drafting methods on paper as well as the computer. Students will learn to operate the CAD program Vector Works. Some of the drawings drawn will include; orthographic projections, isometric, working drawings, detail representation, title blocks, bill of material, charts, graphs and much more. This class will primarily consist of multi-view drawings. Students interested in architecture, construction and manufacturing should take this class. Mode of presentation: Lecture, film, video, Internet, group work, student projects, demonstrations, and lab work. Grading procedures: Tests, quizzes, lab projects and daily work. Student skills, knowledge to be gained: To gain knowledge in design and drafting career area; to develop skills in sketching; to understand geometric constructions, angles arch, ellipses; to draw orthographic and isometric drawings, to draw development or intersections; to draw section views; to draw revolutions; to draw with multiple scales; to draw threads and fasteners.

COURSE: Drafting II
STATE COURSE # (If applicable):100140
AREA OF STUDY: Industrial Technology
COURSE LENGTH: One Semester
COURSE TYPE: Elective
PREREQUISITE: None
GRADE AVAILABILITY: 10, 11 & 12
COURSE DESCRIPTION:

Drafting II will continue to use CAD software to develop drafting skills as in Drafting I however the drawing will be primarily architectural and civil. A few examples of the drawings represented in this class are as follows; floor plans, details, renderings, landscapes, lighting, elevation views, heating and cooling, electrical, driveways, roads, bridges. Mode of presentation: Lecture, film, video, Internet, group work, student projects, demonstrations, and lab work. Grading procedure: Tests, quizzes, lab exercises and daily work. Student skills, knowledge to be gained; To draw floor plan of a house; to draw basement plans; to draw elevation views; to draw furniture plans; to draw dimensioning plans; to draw plot plans; to

draw framing plans; to draw roof plans; to draw decks and patios.

COURSE: Metals 1

STATE COURSE # (If applicable): 101930

AREA OF STUDY: Industrial Technology

COURSE LENGTH: One Semester Each

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 9, 10, 11 & 12

COURSE DESCRIPTION:

This class will expand knowledge in basic metalworking skills, such as welding, oxygen-acetylene welding, brazing and forging. Students interested in manufacturing are encouraged to take this class. Mode of presentation: Lecture, discussion, film, video, Internet, demonstrations, lab work and whiteboard/chalkboard exercises. Student skills, knowledge to be gained: To safely use tools and equipment, to weld with SMAW (arc/stick), to weld with MIG, to weld with TIG, to understand brazing, to understand forge work and to demonstrate bending and cutting bench metal and Shop cleanliness.

COURSE: Metals 2-4

STATE COURSE # (If applicable):101940

AREA OF STUDY: Industrial Technology

COURSE LENGTH: One Semester Each

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 9, 10, 11 & 12

COURSE DESCRIPTION:

This class is a continuation of learning the knowledge and skill of the welding industry, to include: oxygen-acetylene welding, brazing and forging. Students interested in manufacturing are encouraged to take this class. Mode of presentation: Lecture, discussion, film, video, Internet, demonstrations, lab work and whiteboard/chalkboard exercises. Student skills, knowledge to be gained: To safely use tools and equipment, to weld with SMAW (arc/stick), to weld with MIG, to weld with TIG, to understand brazing, to understand forge work and to demonstrate bending and cutting bench metal and Shop cleanliness.

COURSE: On the Job Training

STATE COURSE # (If applicable):

AREA OF STUDY: Industrial Technology

COURSE LENGTH: Two Semesters for either one or two class periods

COURSE TYPE: Elective

PREREQUISITE: Senior employed during the school year.

GRADE AVAILABILITY: 12 COURSE

DESCRIPTION:

Students work outside of the school for a minimum of 10 hours per week in a vocational area of their interest. The activity provides real life experiences that are supported by the classroom. Mode of presentation: Student projects and lab work. Grading procedures: Students will be graded on their Training agreements, schedules and work place reviews. Student skills and knowledge to be gained: to demonstrate the ability to adapt to changing job situations, to use problem solving skills, to demonstrate the ability to follow directions; to demonstrate dependability; to demonstrate the use of people skills; to demonstrate honesty.

COURSE: Power & Energy

STATE COURSE # (If applicable):016000

AREA OF STUDY: Industrial Technology

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE:

GRADE AVAILABILITY: 10, 11 & 12

COURSE DESCRIPTION:

This class is the study of a wide array of energy sources and how these sources are controlled to produce usable power. Each student will be exposed to the integration and reinforcement of basic skills within many energy sources. Students will be working with small engine repair, the basics of automotive engines, and Drone Technology. Mode of presentation: Lecture, film, video, Internet, group work, demonstrations, lab work, white board and chalkboard exercises. Grading procedures: Tests, quizzes, major projects, papers, essays, lab projects, cleanliness and class participation. Student skills and knowledge to be gained: Drone safety, registration and flight skills. To safely use all tools and equipment; to demonstrate knowledge of the engine systems; to demonstrate acceptable troubleshooting procedures, to gain knowledge of routine care and maintenance; to repair or replace worn or broken parts; to gain knowledge of the importance of the engine manual; and to control and produce usable power through a wide array of energy sources.

COURSE: Robotics

STATE COURSE # (If applicable):103194

AREA OF STUDY: Industrial Technology

COURSE LENGTH: One Semester Each

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 9, 10, 11 & 12

COURSE DESCRIPTION:

Robotics is a lab-based course that uses a hands-on approach to introduce the basic concepts of robotics, focusing on the construction and programming of autonomous and remote controlled mobile robots. During this class students will explore the field of robotic design using a variety of hands on activities. . Mechanical concepts such as gearing, torque, speed, and power are taught and used during coursework. Google Sketchup is used as a tool for mechanical design. Course information will be tied to lab experiments, and students will get elements from STEM based curriculum. Students will work in groups to build and test increasingly more complex mobile robots, culminating in an end of the year robot contest.

COURSE: Advanced Robotics

STATE COURSE # (If applicable):103195

AREA OF STUDY: Industrial Technology

COURSE LENGTH: One Semester Each

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 11 & 12

COURSE DESCRIPTION:

Advanced Robotics is a continuation of *Robotics*. It is a lab-based course that uses a hands-on approach to introduce the basic concepts of robotics, focusing on the construction and programming of

autonomous and remote controlled mobile robots. During this class students will explore the field of robotic design using a variety of hands-on activities. Mechanical concepts such as gearing, torque, speed, and power are taught and used during coursework. Google Sketchup is used as a tool for mechanical design. Course information will be tied to lab experiments, and students will get elements from STEM based curriculum. Students will work in groups to build and test increasingly more complex mobile robots, culminating in an end of the year robot contest.

COURSE: Woods 1

STATE COURSE # (If applicable):101920

AREA OF STUDY: Industrial Technology

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 9, 10, 11 & 12

COURSE DESCRIPTION:

Students will learn to safely operate power equipment such as: table saws, planers, jointers, band saws, lathes, etc. Students will develop many skills in working with wood in a furniture construction lab. Students interested in architecture, construction and manufacturing should take this class. Mode of presentation will be: Lecture, discussion, film, video, and Internet, student projects, demonstrations, and lab work. Grading procedures: Tests, quizzes, major projects, papers/essays, lab projects, class participation, and cleanliness. Student skills/knowledge to be gained: To safely use tools and equipment; to identify woods and their characteristics; to demonstrate quality jointing; to perform quality finishing techniques; to develop bills and materials; to develop plans of procedure.

COURSE: Woods 2-4

STATE COURSE # (If applicable):101921

AREA OF STUDY: Industrial Technology

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 9, 10, 11 & 12

COURSE DESCRIPTION:

Students will learn to safely operate power equipment such as: table saws, planers, jointers, band saws, lathes, etc. Students will develop many skills in working with wood in a furniture construction lab. Students interested in architecture, construction and manufacturing should take this class. Mode of presentation will be: Lecture, discussion, film, video, and Internet, student projects, demonstrations, and lab work. Grading procedures: Tests, quizzes, major projects, papers/essays, lab projects, class participation, and cleanliness. Student skills/knowledge to be gained: To safely use tools and equipment; to identify woods and their characteristics; to demonstrate quality jointing; to perform quality finishing techniques; to develop bills and materials; to develop plans of procedure.

COURSE: Algebra 1

STATE COURSE # (If applicable): 110300

AREA OF STUDY: Math

COURSE LENGTH: Two Semesters

COURSE TYPE: Required

PREREQUISITE: None

GRADE AVAILABILITY: 9, 10, 11, & 12

COURSE DESCRIPTION:

An organization of mathematics subject matter concerned primarily with introductory study of properties of number systems. Topics studied include algebraic expressions and symbols, operations of reals (addition, multiplication, inverse operations), binomials, absolute values, ratios, percents, graphs, integers, exponents, and functions.

COURSE: Algebra 2

STATE COURSE # (If applicable): 110306

AREA OF STUDY: Math

COURSE LENGTH: Two Semesters

COURSE TYPE: Required

PREREQUISITE: Algebra I

GRADE AVAILABILITY: 10, 11, & 12

COURSE DESCRIPTION:

An organization of mathematics subject matter concerned primarily with intermediate and advanced study of properties of number systems (real numbers, complex numbers). Topics studied include graphing in two dimensions, set notations, polynomials, exponential notation and operations with exponents, upper and lower bounds, continued sums, matrices, vectors, limits, continuous functions, complex numbers, combinations, and permutations.

COURSE: Calculus 1 2410 (MCC Dual Enrollment)

STATE COURSE # (If applicable): 110600

AREA OF STUDY: Math

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: MCC College Algebra 1425 and MCC Trigonometry 1430 with a grade of "C" or better.

GRADE AVAILABILITY: 12

COURSE DESCRIPTION:

This course studies the mathematical tools used to analyze the continuous rate of change between variables. It reviews some principles of pre-calculus and investigates limits, differentiation, and integration. The course studies applications of both differentiation and integration

COURSE: College Algebra 1315 (MCC Dual Enrollment)

STATE COURSE # (If applicable): 119930

AREA OF STUDY: Math

COURSE LENGTH: One Semester

COURSE TYPE: Elective

PREREQUISITE: Completion of Algebra 2 with a grade of "B" or better.

GRADE AVAILABILITY: 11 & 12

COURSE DESCRIPTION:

This course extends algebra skills and provides the background necessary for further mathematics courses. Topics included are: functions and their inverses; polynomial, radical, exponential, and rational expressions; polynomial, rational, exponential, and logarithmic equations; graphing functions using transformations (absolute value, polynomial, radical, exponential, and logarithmic); and an introduction to statistics.

COURSE: Geometry
STATE COURSE # (If applicable): 111200
AREA OF STUDY: Math
COURSE LENGTH: Two Semesters
COURSE TYPE: Required
PREREQUISITE: Algebra I
GRADE AVAILABILITY: 9, 10, 11, & 12
COURSE DESCRIPTION:

Students will look at the terms and logic of geometry, discover properties of parallel lines, quadrilaterals, polygons, and circles, as well as congruent, non-congruent and similar figures. Different kinds of geometric proofs are investigated. Properties about right triangles are discovered. Formulas of the area of polygons and surface area and volume of polyhedron are also used. Basic constructions with compasses and straight edges are taught and work is also done on the computer with Geogebra.

COURSE: Pre Calculus 1425 (MCC Dual Enrollment)
STATE COURSE # (If applicable): 111300
AREA OF STUDY: Math
COURSE LENGTH: One Semester
COURSE TYPE: Elective
PREREQUISITE: Completion of Algebra 2 as a sophomore with a grade of "B" or better.
GRADE AVAILABILITY: 11 & 12
COURSE DESCRIPTION:

Students will learn advanced algebra topics that include rational expressions; radical equations; circles; relations and functions; systems of equations and inequalities; Polynomial and Rational functions; exponential and logarithmic functions; sequences and series; probability and counting theory.

COURSE: Statistics 1410 (MCC Dual Enrollment)
STATE COURSE # (If applicable): 111700
AREA OF STUDY: Math
COURSE TYPE: Required
COURSE LENGTH: One Semester
PREREQUISITE: MCC College Algebra 1315 with a grade of "C" or better or Algebra 2 with a grade of "B" or better
GRADE AVAILABILITY: 11 & 12
COURSE DESCRIPTION:

This course requires the student to develop a critical and functional understanding of data. Topics include frequency distributions: measures of central tendency and dispersion; probability and probability distributions; sampling concepts; estimating means, variances, standard deviations; proportions and percentages; hypothesis testing; and correlation and linear regression.

COURSE: Technical Math (MCC)
STATE COURSE # (If applicable): 110622
AREA OF STUDY: Math
COURSE TYPE: Elective
COURSE LENGTH: Two Semesters (Potential for Early Completion)
PREREQUISITE: Geometry and Counselor/Math Instructor Approval
GRADE AVAILABILITY: 11 & 12

COURSE DESCRIPTION:

This is a dual-credit course offered by Nebraska Community Colleges for students to develop math sciences required in career/technical fields. This course includes a review of arithmetic operations, exponents, algebraic operations and right triangle trigonometry with emphasis on placed applications.

COURSE: Trigonometry 1430 (MCC Dual Enrollment)

STATE COURSE # (If applicable): 111600

AREA OF STUDY: Math

COURSE TYPE: Elective

COURSE LENGTH: One Semester

PREREQUISITE: MCC Precalculus 1425 with a grade of "C" or better.

GRADE AVAILABILITY: 11 & 12

COURSE DESCRIPTION:

Topics include trigonometric ratios, triangles, vectors, circular functions, trigonometric identities, inverse trigonometric functions, trigonometric equations, and complex numbers.

COURSE: Biology

STATE COURSE # (If applicable):130201

AREA OF STUDY: Science

COURSE LENGTH: Two Semesters

COURSE TYPE: Required

PREREQUISITE: None

GRADE AVAILABILITY: 9

COURSE DESCRIPTION:

Biology will cover the following life science topics: 1) Structure and Function, 2) Inheritance and Variation of Traits, 3) Matter and Energy in Organisms and Ecosystems, 4) Interdependent Relationships in Ecosystems, and 5) Natural Selection and Evolution. Scientific methods, tools, and techniques will be reviewed and utilized in the lab setting. The performance expectations for high school life science blend core ideas with scientific and engineering practices and crosscutting concepts to support students in developing usable knowledge that can be applied across the science disciplines.

NDE course description: The study of the cell, molecular basis of heredity, biological evolution, interdependence of organisms, matter, energy and organization in living systems, and behavior of organisms. Students should develop the ability to think and act in ways associated with scientific inquiry.

COURSE: Physical Science

STATE COURSE # (If applicable):130300

AREA OF STUDY: Science

COURSE LENGTH: Two Semesters

COURSE TYPE: Required

PREREQUISITE: None

GRADE AVAILABILITY: 10

COURSE DESCRIPTION:

Physical Science is the introduction to the sciences of chemistry and physics. This course samples a wide variety of topics from both disciplines with an emphasis to real-life applications. Many different laboratory and research skills are involved. Major areas of study include chemical structure and reactions, motion, energy and its uses, and the study of waves.

NDE course description: Study of the major topics, concepts, processes and interrelationship of basic chemistry and physics. Students should develop the ability to think and act in ways associated with scientific inquiry.

COURSE: Anatomy and Physiology
STATE COURSE # (If applicable):130210
AREA OF STUDY: Science
COURSE LENGTH: Two Semesters
COURSE TYPE: Elective
PREREQUISITE: Biology
GRADE AVAILABILITY: 11 & 12
COURSE DESCRIPTION:

Students will be introduced to essential concepts in human anatomy and physiology. Tissue study, cell specialization, the major organ systems and their components will be studied. Some disease conditions will be explored in order to illustrate the fine mechanism of balance in the healthy human body. The course is supplemented by various lab activities including dissection of specimens. This is a valuable class for anyone considering a career in any health related field.

NDE Descriptions: The branch of Biology that relates to the structure and relationship between body parts and the relationship between the function of body parts and the body as a whole.

COURSE: Chemistry
STATE COURSE # (If applicable):130301
AREA OF STUDY: Science
COURSE LENGTH: Two Semesters
COURSE TYPE: Elective
PREREQUISITE: Algebra
GRADE AVAILABILITY: 11 & 12
COURSE DESCRIPTION:

Chemistry is the study of the characteristics and chemical changes of matter. Many areas are covered such as: measurement, data analysis, data presentation, atomic and molecular structure, the periodic table, chemical reactions, kinetic theory, stoichiometry and the properties of solutions. There is a large mathematical component involved in this course. Laboratory techniques and safety are stressed in this class. An extremely valuable class for anyone considering a career in any science, medical or engineering field.

NDE course description: The study of the structure of atoms, structure and properties of matter, and chemical reactions. Students should develop the ability to think and act in ways associated with scientific inquiry.

COURSE: Environmental Science
STATE COURSE # (If applicable): 130203
AREA OF STUDY: Science
COURSE LENGTH: Two Semesters
COURSE TYPE: Elective
PREREQUISITE: None
GRADE AVAILABILITY: 11 & 12
COURSE DESCRIPTION:

Environmental science is a captivating and rapidly expanding field, and this two-semester course offers compelling lessons that cover many different aspects of the field: ecology, the biosphere, land, forests and soil, water, energy and resources, and societies and policy. Through unique activities and material, high school students connect scientific theory and concepts to current, real-world dilemmas, providing them with opportunities for mastery in each of the segments throughout the semester.

NDE course description: Environmental Science courses examine the mutual relationships between organisms and their environment. In studying the interrelationships among plants, animals, and humans, these courses usually cover the following subjects: photosynthesis, recycling and regeneration, ecosystems, population and growth studies, pollution, and conservation of natural resources.

COURSE: Forensic Science

STATE COURSE # (If applicable): 130317

AREA OF STUDY: Science

COURSE LENGTH: Two Semesters

COURSE TYPE: Elective

PREREQUISITE: None

GRADE AVAILABILITY: 11 & 12

COURSE DESCRIPTION:

This course will incorporate Biology, Chemistry, Physics, Earth Science disciplines and the process of science to the study of crimes. Topics of exploration may include: processing a crime scene, collecting and preserving evidence, physical evidence, organic and inorganic analysis of evidence, trace evidence, toxicology, arson and explosion investigations, serology, DNA, fingerprints, firearms, and document analysis. This is a valuable class for anyone considering a career in any law enforcement and public safety related fields.

NDE course description: Forensic Science courses incorporate Biology, Chemistry, Physics, Earth Science disciplines and the process of science to the study of crimes. Topics of exploration may include: processing a crime scene, collecting and preserving evidence, physical evidence, organic and inorganic analysis of evidence, trace evidence, toxicology, arson and explosion investigations, serology, DNA, fingerprints, firearms, and document analysis.

COURSE: Nursing Assistant/Health Occupations

STATE COURSE # (If applicable):077400

AREA OF STUDY: Health Sciences

COURSE LENGTH: Two Semesters

COURSE TYPE: Elective-highly suggested for students interested in pursuing medical careers

PREREQUISITE: Biology and Algebra

GRADE AVAILABILITY: 11 & 12

COURSE DESCRIPTION:

The course is designed to meet the Nebraska Department of Health training requirements for nursing assistant certification and employment in long-term care facilities. The course combines classroom lecture, laboratory application, and clinical experience for the development of basic skills needed to care for the elderly. Course content will focus on teaching the nursing assistant to provide safe, effective, and caring services to the elderly or chronically ill patient of any age, in a long-term care facility. This course is required to be taught by a R.N. or B.S.N. and a high school teacher. The nursing assistant curriculum alternates with a Health Occupations section taught by the high school teacher. A variety of healthcare topics and careers are explored in addition to guided study/practice skills sessions.

Upon completion and passing of this state-certified nursing assistant program and the state exam, students will be able to work as a nursing assistant in the state of Nebraska and will be listed on the Nebraska Nurse Aide Registry.

NDE course description: This is a basic nursing knowledge and skills course for the nurse assistant in a health care setting. It meets the requirements of Public Law 100-203 OBRA and is approved by the Nebraska Department of Health. This course is required to be taught by a R.N. or B.S.N. in order for students to receive high school credit, arrangements need to be made to insure teaching certification. This course may be available for dual credit at a postsecondary institution. Classroom, laboratory and educational leadership activities are supplemented through Nebraska HOSA/Future Health Professionals, Career Student Organization.

COURSE: College Physics

STATE COURSE # (If applicable):130303

AREA OF STUDY: Science

COURSE LENGTH: Two Semesters

COURSE TYPE: Elective

PREREQUISITE: Algebra

GRADE AVAILABILITY: 11 & 12

COURSE DESCRIPTION:

College Physics is a college-level course as an extension of Peru State College to offer college credit to Fort Calhoun students. Students will complete PHYS 201. Students will analyze situations and solve problems in the areas of mechanics, sound, and heat in this mathematically based physics course. This class includes required lectures, problem solving, and laboratory components. Trigonometry is used extensively in this course.

NDE course description: The study of motions and forces, conservation of energy and increase in disorder, and interactions of energy and matter. Students should develop the ability to think and act in ways associated with scientific inquiry.

COURSE: Choir
STATE COURSE # (If applicable): 120400
AREA OF STUDY: Music
COURSE LENGTH: Two Semesters
COURSE TYPE: Elective
PREREQUISITE: None
GRADE AVAILABILITY: 9, 10, 11 & 12
COURSE DESCRIPTION:

In this year-long course, students will experience the choral music of a variety of different cultures and time periods through study and performance. The curriculum emphasizes the development of proper vocal technique, ensemble singing, sight-reading, music theory, and music history, while fostering an appreciation for music and its influence in the world. Students are expected to participate in one evening concert each quarter as well as a few other performance opportunities that arise throughout the year.

COURSE: Show Choir
STATE COURSE # (If applicable):
AREA OF STUDY: Music
COURSE LENGTH: Two Semesters
COURSE TYPE: Elective
PREREQUISITE: Choir and Audition
GRADE AVAILABILITY: 9, 10, 11 & 12
COURSE DESCRIPTION:

Entrance into this year-long performance-based class is by audition only. Within the class, students will grow in their ability to show proper vocal technique, text interpretation, facial and body expression, and performance skills through song and dance. Repertoire studied and performed will include vocal music from a variety of different popular styles and genres. Students are required to perform at all home concerts as well other community performances and competitions.

COURSE: Instrumental Music 1-Emph: Baroque
STATE COURSE #: 120500
AREA OF STUDY: Music
COURSE LENGTH: One year
COURSE TYPE: Elective - offered every four years
PREREQUISITE: Junior High Band or Permission of Teacher
GRADE AVAILABILITY: 9, 10, 11 & 12
COURSE DESCRIPTION:

Students are expected to learn various materials presented through lecture, discussion, and demonstration while in the midst and context of a performance-oriented ensemble. Material will include areas of music theory— which incorporates, among other things, the science of the properties of sound and the physics of acoustics— and music history, which is integrally tied to world history and anthropology. Performance mediums will include marching band, concert band, and pep band. As a part of a performing ensemble, students are expected to continually develop their instrumental performance skills. The Baroque Emphasis is offered every four years.

COURSE: Instrumental Music 2-Emph: Classical
STATE COURSE #: 120500
AREA OF STUDY: Music

COURSE LENGTH: One year

COURSE TYPE: Elective - offered every four years

PREREQUISITE: Junior High Band or Permission of Teacher

GRADE AVAILABILITY: 9, 10, 11 & 12

COURSE DESCRIPTION:

Students are expected to learn various materials presented through lecture, discussion, and demonstration while in the midst and context of a performance-oriented ensemble. Material will include areas of music theory— which incorporates, among other things, the science of the properties of sound and the physics of acoustics— and music history, which is integrally tied to world history and anthropology. Performance mediums will include marching band, concert band, and pep band. As a part of a performing ensemble, students are expected to continually develop their instrumental performance skills. The Classical Emphasis is offered every four years.

COURSE: Instrumental Music 3-Emph: Romantic

STATE COURSE #: 120500

AREA OF STUDY: Music

COURSE LENGTH: One year

COURSE TYPE: Elective - offered every four years

PREREQUISITE: Junior High Band or Permission of Teacher

GRADE AVAILABILITY: 9, 10, 11 & 12

COURSE DESCRIPTION:

Students are expected to learn various materials presented through lecture, discussion, and demonstration while in the midst and context of a performance-oriented ensemble. Material will include areas of music theory— which incorporates, among other things, the science of the properties of sound and the physics of acoustics— and music history, which is integrally tied to world history and anthropology. Performance mediums will include marching band, concert band, and pep band. As a part of a performing ensemble, students are expected to continually develop their instrumental performance skills. The Romantic Emphasis is offered every four years.

COURSE: Instrumental Music 4-Emph:20th Century

STATE COURSE #: 120500

AREA OF STUDY: Music

COURSE LENGTH: One year

COURSE TYPE: Elective - offered every four years

PREREQUISITE: Junior High Band or Permission of Teacher

GRADE AVAILABILITY: 9, 10, 11 & 12

COURSE DESCRIPTION:

Students are expected to learn various materials presented through lecture, discussion, and demonstration while in the midst and context of a performance-oriented ensemble. Material will include areas of music theory— which incorporates, among other things, the science of the properties of sound and the physics of acoustics— and music history, which is integrally tied to world history and anthropology. Performance mediums will include marching band, concert band, and pep band. As a part of a performing ensemble, students are expected to continually develop their instrumental performance skills. The 20th Century Emphasis is offered every four years.

COURSE: Jazz Band

STATE COURSE #: 120500

AREA OF STUDY: Music

COURSE LENGTH: Two Semesters

COURSE TYPE: Elective - offered every year

PREREQUISITE: Enrolled in Instrumental Music & Audition

GRADE AVAILABILITY: 9, 10, 11 & 12

COURSE DESCRIPTION:

This is primarily a hands-on lab class providing students with training and performance experience in the specialized area of jazz--the only form of music which is truly American in origin. Brief lectures will cover the basics of style, performance techniques, chord structures, improvisation, as well as notable groups and performers in the field. This is a select, auditioned class and an elite performing ensemble. Membership is restricted to instrumentation used in standard jazz literature. The class meets Thursday mornings at 7:05 a.m., with other rehearsals and performances as scheduled throughout the season. Attendance at all functions is mandatory.

COURSE: Physical Fitness: Introduction to Strength and Conditioning

STATE COURSE # (If applicable): 080111

AREA OF STUDY: Physical Education

COURSE LENGTH: One Semester

COURSE TYPE: 9th Grade PE Alternative (recommended for athletes) or 10th-12th Elective *10th Graders must take this 1 Semester to fulfill their graduation requirements for 1 Full Credit of PE.

PREREQUISITE: None

GRADE AVAILABILITY: 9-12

COURSE DESCRIPTION:

This class is a supplementary class for our student-athletes involved in Strength & Conditioning at 6:30 AM; this class is also a fitness option for non-athletes who want to get into better shape. The objective of the class is to help students increase their wellness and help develop lifelong wellness skills. We will help develop speed, power, and functional mobility.

COURSE: Health

STATE COURSE # (If applicable):

AREA OF STUDY: Physical Education

COURSE LENGTH: One Semester

COURSE TYPE: Required

PREREQUISITE: None

GRADE AVAILABILITY: 9

COURSE DESCRIPTION:

This is a one semester long survey course designed to use what is known in the health sciences to help young people make healthy lifestyle choices. Students will learn how to differentiate between healthful and harmful behaviors and their impact on the body. Topics covered will include building a foundation for a healthy lifestyle, physical activity and nutrition, mental and emotional health, and personal care of bodily systems. Much of this class will entail learning basic anatomy/physiology and following up with pertinent health topics. This class is a requirement for graduation.

COURSE: Foundations For Physical Education & Fitness - 9th Grade PE

STATE COURSE # (If applicable): 080107

AREA OF STUDY: Physical Education- HS

COURSE LENGTH: One Semester

COURSE TYPE: Required (9th Graders may take Introduction to Strength & Conditioning

as an alternative)

PREREQUISITE: None

GRADE AVAILABILITY: 9

COURSE DESCRIPTION:

This course will introduce students to the foundations of physical fitness and equip them with the knowledge and skills necessary to design a fitness program. This includes: (1) assessing their personal fitness levels; (2) creating a plan for improvement; (3) setting physical activity and fitness goals; (4) participating in a variety of physical activities (e.g. weight training, aerobics, individual and team sports); and (5) using current technology as it relates to physical education and fitness.

COURSE: Physical Fitness: Intermediate Strength & Conditioning

STATE COURSE # (If applicable): 080112

AREA OF STUDY: Physical Education

COURSE LENGTH: One or Two Semesters - may be taken up to four semesters for high school credit

COURSE TYPE: Elective

PREREQUISITE: Introduction to Strength & Conditioning

GRADE AVAILABILITY: 10, 11, & 12

COURSE DESCRIPTION:

This class is a supplementary class for our student-athletes involved in Strength & Conditioning at 6:30 AM; this class is also a fitness option for non-athletes who want to get into better shape. The objective of the class is to help students increase their wellness and help develop lifelong wellness skills. We will help develop speed, power, and functional mobility.

COURSE: Physical Fitness: Advanced Strength & Conditioning

STATE COURSE # (If applicable): 080113

AREA OF STUDY: Physical Education

COURSE LENGTH: One or Two Semesters - may be taken up to four semesters for high school credit

COURSE TYPE: Elective

PREREQUISITE: Introduction to Strength & Conditioning and 2 Semesters of Intermediate S & C

GRADE AVAILABILITY: 11 & 12

COURSE DESCRIPTION:

This class is a supplementary class for our student-athletes involved in Strength & Conditioning at 6:30 AM; this class is also a fitness option for non-athletes who want to get into better shape. The objective of the class is to help students increase their wellness and help develop lifelong wellness skills. We will help develop speed, power, and functional mobility.

