



**Central City High School
Curriculum Course Guide
2023-2024**

Central City, where education is CENTRAL...

CENTRAL CITY COMMUNITY SCHOOLS

400 Barber Street, Central City, IA 52214

Students, Parents and Community:

Outstanding opportunities through our diverse class offerings for all students and their interest areas will be found in this book. We strive to create an environment that is conducive to academics and promise that our focus lies with each and every student.

“At the desk where I sit, I have learned one great truth. The answer for all our national problems – the answer to all the problems of the world – comes down to a single word. The word is EDUCATION.”

Lyndon B. Johnson

Please read through this book carefully. We are here to meet the individual educational and emotional needs of Central City students and to enable them to lead productive and fulfilling lives after graduation. I offer my help and the help of all our educators in the pursuit of that goal. As the saying goes, “Education is a journey, not a destination, and teachers are the guides.”

Use this book to plan classes, future goals, and to track your journey through this amazing education world.

Sincerely,

Jason McLaughlin
6-12 Principal
Central City High School

In Your Pursuit of Excellence

The next four years of your life are arguably the most important. You possess an opportunity to catapult yourself into a promising and successful future. The course choices you make can shape the rest of your life. Enroll in the courses you love and try a few that have always interested you. Also, get involved in one of the many activities here at CCHS. As you walk across the stage at graduation, feel confident that you achieved all you possibly could out of your years at CCHS.

What do you want to do in life? Where would you like to go? These questions are just a few of those you should be asking yourself as you begin or continue your high school adventure and prepare for adult life.

Your high school career should help you develop your basic skills, determine and strengthen those areas that you are best in, and point the way to careers, further training, or college. Your high school career should challenge you to develop your intellectual, artistic, musical, social and athletic skills so that when graduation comes you are prepared for whatever you want to do. No two students have identical dreams and no two paths through high school are the same. Your choices are uniquely yours.

This handbook has been designed to help you and your parents, counselors, and teachers with the registration process. Read it carefully. You must keep certain things in mind when selecting your courses if you want to keep your options open and flexible. Some courses have prerequisites; others are open to only specific grade levels or during certain years. Plan not only for next year, but also for your remaining high school years.

Your role in planning your course of study begins now. The master schedule of classes is built after all students have made their course requests. We can build a good master schedule only if you are very accurate and complete in your selection of classes.

The following pages will supply you with information and give you an idea about what you will learn and do in the classes you can take.

Central City School District Graduation Requirements
(Board Policy 505.5)

Students must successfully complete the required courses of study prior to graduation as determined by the State Department of Education and the Board of Directors.

It shall be the responsibility of the superintendent or designee to ensure that students complete grades one through twelve and that high school students complete required credits prior to graduation.

Credit Requirements:

English	8
Mathematics	6
Science	6
Social Studies	6
American History	(2)
Government	(1)
Financial Literacy	(1)
Physical Education	4
Electives	<u>20</u>
	50

A student will not be allowed to graduate with fewer than the required credits without the approval of the Board of Directors. Beginning with the class of 2022, graduation requirements for special education students will include successful completion of four years of English, three years of math, three years of social studies and three years of science. The Board of Directors shall have complete discretion to determine extraordinary circumstances.

The Board of Directors will review the required courses of study every year.

Here's how we recommend that you take your course work:

<u>Freshman</u>	<u>Sophomore</u>	<u>Junior</u>	<u>Senior</u>
English 9	English 10	American Literature	English Elective
Math Elective	Math Elective	Math Elective	Math Elective
Physical Science	Biology	Science Elective	Science Elective
Geography	American History	Social Studies Elec.	American Government
Financial Literacy	Physical Education	Physical Education	Physical Education
Physical Education			

ATTENTION ATHLETES

The NCAA (National Collegiate Athletic Association) requires all high school athletes to complete sixteen core courses in order to be eligible to compete on the collegiate level. A grade of “C” or above must be earned in all core courses.

The sixteen (16) core courses must include the following:

English	4 years
Mathematics (Algebra I or higher)	3 years
Natural/physical science including a one year lab course.	2 years
Additional courses in English, mathematics or natural/physical science.	1 year
Social Science	2 years
Additional academic courses from any area above, foreign language, or non-doctrinal religion/philosophy.	4 years

NCAA approved course work from Central City High School:

ENGLISH

English 9
 English 10
 American Literature
 Contemporary Literature
 World Literature
 Writing Applications
 Communication Skills
 Creative Writing
 College Composition
 Composition I (Kirkwood)
 Composition II (Kirkwood)
 Fund. of Oral Comm. (Kirkwood)

SCIENCE

Physical Science
 Biology
 Chemistry
 Physics

SOCIAL SCIENCE

World History
 Global Issues
 Early American History
 American History
 American Government
 Economics
 Psychology
 Sociology
 Anthropology

MATHEMATICS

Algebra I
 Geometry
 Algebra II
 Advanced Math
 Calculus

ADDITIONAL CORE COURSES:

Spanish I
 Spanish II
 Spanish III
 Spanish IV

Board of Regents, State of Iowa

Freshman Admission Requirements to the Regent Universities

Admission of freshmen who wish to enroll at any of the Iowa Regent universities beginning Fall 2009 and beyond will be based on the Regent Admission Index (RAI) equation described below. In addition, applicants must meet the minimum high school course requirements for the university they wish to enter.

(3 x ACT composite score)
 + (20 x high school GPA)
 + (5 x number of high school core courses)
 Regent Admission Index Score

Note: For purposes of calculating the RAI SAT scores will be converted to ACT composite equivalents, 4.00 is the top value for GPA, and the number of high school core courses completed is expressed in terms of years or fractions of years (e.g., one semester equals 0.5 year). Applicants who do not possess all required factors will be evaluated on an individual basis by the Regent universities to which they apply.

Freshman applicants from Iowa high schools who achieve at least a 245 RAI score and who meet the minimum number of high school courses required by the Regent universities will qualify for automatic admission to any of the three Regent universities. Freshman applicants who achieve less than a 245 RAI score may also be admitted to a specific Regent university; however, each Regent university will review these applications on an individual basis and the admission decision will be specific to each institution. Freshman applicants from approved high schools in other states may be held to higher academic standards, but must meet at least the same requirements as graduates of Iowa high schools.

The Regent universities recognize that the traditional measures of academic performance do not adequately describe some students' potential for success. Therefore, the Regent universities strongly encourage all interested students to apply for admission. Applicants who feel their academic record is not an accurate reflection of their potential for success are encouraged to provide supplemental information explaining their circumstances in addition to the application, academic transcripts, and test scores.

For more information and to calculate your RAI score, visit:

<https://www.iowaregents.edu/institutions/higher-education-links/regent-admission-index>

High School Program of Studies

*this course may be taken up to 2 times for core credit, anything additional will be counted as elective credit

ENGLISH COURSES

1150 English 9

2 Credits

Prerequisites: None

Required: 9

This course builds upon the students' prior knowledge of grammar, vocabulary, word usage, and mechanics of writing, including the four aspects of communication: reading, writing, speaking, and listening. This course will involve oral communication skills, writing skills, and reading skills. The various genres of literature are introduced and defined, with writing exercises linked to reading selections. The course is designed to improve communication skills in both spoken and written language. Major topics covered in this course will include: literature (short stories (fiction and nonfiction), a career unit that includes building a resume and completing a practice interview, short story writing, Running, and a Shakespearean play (*Romeo & Juliet*).

1250 English 10

2 Credits

Prerequisites: English 9

Required: 10

This course provides students with a more intensive study of areas introduced in English 9. Grammar and vocabulary skills as they relate to written expression are emphasized in an integrated approach. Students will investigate the use of various forms of literature presented in thematic and genre-specific collections. Through their readings, they will clarify personal responses, share interpretations and move beyond the text to make new connections.

1350 American Literature

2 Credits

Prerequisites: English 9 & English 10

Elective: 11,12

American Literature is a year-long language arts class intended to satisfy graduation requirements and give students an appreciation of the culture of the United States from pre-colonial to present day. Students will focus on literary meaning, compose papers, and create and share presentations. Students will read works of authors who reflect major social and economic eras, i.e. Arthur Miller, Mark Twain, John Steinbeck. Several other authors' works, in a variety of genres, are also surveyed. One of the main components of this class is that students understand how to write a summary/response, literary analysis, and comparison paper (and create a works cited page). As a language arts class, students will experience a wide variety of reading, writing, speaking, and listening activities. Class content will sometimes cross into subject matter often associated with social studies, science, art, music, and theatre as well as language arts, and it will include a wide variety of print and non-print texts. Students will work independently at times and as part of small and large groups; communication and participation is vital. *Students may take this as a year-long course or for one semester.*

1370 Creative Writing (2nd Semester)

1 Credit

Prerequisites: English 9

Elective: 10,11,12

Creative Writing is an elective course for proficient writers who seek an overview of the basic aspects of creative writing techniques, emphasizing the use of the writing process. Producing individual weekly writing assignments to develop and enhance students' writing skills is the major goal of the course. The most important aspect of the course is the responsibility placed on students to improve their writing. The course is designed to provide students the opportunity to

write in a variety of genres, including poetry, short story, memoir, autobiography, and letters. Students will write for the purposes of description, narration, exposition, and persuasion. The aim of the class is for students to produce multiple kinds of creative writing with the emphasis on revision and editing skills. This emphasis will prove beneficial in other classes, for the key to good writing is good revision and editing. Students will choose their best work to create a class publication of the compiled pieces.

Asian Literature (1st Semester)

1 Credit

Prerequisites: English 9

Elective: 10, 11, 12

Students will explore music, theater, culture, and writings from a variety of Asian countries and study how they've influenced western culture. Topics will range from: Kabuki and Noh theater, K-pop, cultural cuisine, anime, manga, and more. Students will be writing short essays, researching and presenting various topics, and reading small pieces of literature.

1450 College Composition (1st Semester)

1 Credit

Prerequisites: English 9 and 10 or Instructor Permission

Elective: 11, 12

This course is intended for those students preparing for college level writing. The course covers a variety of writing techniques related to style and structure as well as grammar, usage and mechanics. Several types of papers will be written including: descriptive, narrative, persuasive, research, and others. By the end of this course, students will be prepared for writing papers in college.

1470 World Literature (2nd Semester)

1 Credit

Prerequisites: English 9, English 10, & American Literature

Elective: 12

This course is intended for students preparing for college. The text offers a chronological survey of the world's literature and culture, with pieces being read, discussed and researched. Novels will be read and discussed.

1500 Writing Applications*

2 Credits

Prerequisites: English 9

Elective: 10,11,12

This course is designed to teach students the basics of a newspaper, which includes different types of newspaper articles, such as news, features and editorials, and how each is written. There will be written assignments over each of these types. In addition to learning the different parts of a newspaper and how each is written, the students will be responsible for producing a weekly article in the local paper. Proofreading is an important component of this class. *Students may take this as a year-long course or for one semester.*

1600 Communications Skills (2nd Semester)

1 Credit

Prerequisites: English 9

Elective: 10, 11, 12

The primary purpose of this course is to improve your public speaking skills. Students will be studying topic selection, audience analysis, research, outlining, speech writing and speech delivery. By the end of this course, students will have improved their verbal and nonverbal communication skills and will be able to successfully and confidently present speeches in a variety of real-world situations. *This course is one semester long.*

1700 Personalized Study of Books***1 Credit**Prerequisites: NoneElective: 9,10,11,12

This course has students read a variety of books and report (through writing) and discussion, through conferencing with the teacher, to demonstrate comprehension of these books throughout a term. Each student is permitted to select his/her own reading materials based upon individual interests. Every second book after that is chosen from a recommended reading list. Each student is encouraged to expand his/her range of reading interests and depth of his/her understanding of a subject or an author. After completing each book, the student answers literary questions to demonstrate their understanding and turns this into the teacher. The student signs up for a conference with the teacher for discussion of the book. Based on the conference, points will be given to the student's final grade. The student will also keep track of all the books read during the semester. *Students may take this as a year-long course or for one semester.*

MATHEMATICS COURSES

2110 Pre-Algebra **2 Credits**

Prerequisites: None

Elective: 9,10,11,12

This course involves basic concepts such as percents, fractions, metrics, volume, area and progresses toward basic algebraic functions. Students that complete Pre-Algebra move onto Algebra I the following year.

2150 Algebra I **2 Credits**

Prerequisites: None

Elective: 9,10,11,12

This course introduces the concepts of fundamental algebra and aids in the acquiring of manipulative algebraic skills. The course starts with defining expressions, equations, real numbers and variables. Then the student learns to solve integers and polynomial problems. Fractions with variables give an extension on the rules introduced earlier in the book. Graphing linear equations is the emphasis of the last part of the course.

2250 Geometry **2 Credits**

Prerequisites: Algebra I

Elective: 9,10,11,12

This course will focus on the properties of two-dimensional objects with limited study of three-dimensional objects. Emphasis is placed on logic skills through the use of proofs. Specific topics studied in this course include working with parallel lines, angles, triangles, quadrilaterals and circles. Volume and area of geometric figures will also be explored. By the end of the course, students will be able to set up and solve real-world problems by applying geometric concepts and relationships.

2350 Algebra II **2 Credits**

Prerequisites: Algebra I

Elective: 10,11,12

This course starts with the review of fundamentals learned in Algebra I, then advances to include more sophisticated algebraic methods. Students are taught definitions of irrational, real, and complex numbers. The ideas of factoring polynomials are expanded and students learn about quadratic functions and quadratic equations. Toward the end of the course, exponential definitions and functions are expounded upon and logarithms, trig functions and vectors are introduced. (Recommended for college seeking students.)

2460 Advanced Math (Precalculus) **2 Credits**

Prerequisites: Geometry & Algebra II

Elective: 11,12

This course will involve many advanced topics. Students will learn about advanced functions such as polynomial, trigonometric, inverse functions, quadratics and logarithms. Other topics covered will include conic sections, matrices, sequences and series, and polar coordinates.

2470 Calculus **2 Credits**

Prerequisites: Algebra II & Advanced Math (Precalculus)

Elective: 12

Calculus is a word that describes the mathematics that calculus teachers feel students need to be successful during their college education. Calculus topics will include properties of linear, quadratic, polynomial, exponential, logarithm, and trigonometric functions, sequences and limits, manipulation of algebraic expressions, solving equations and inequalities, polar coordinates, and other related topics. Discrete topics covered will include mathematical induction, matrices, graphs, and different number systems. The class will emphasize the use of graphing calculators to

display problems visually as well as to solve problems that will become progressively more elaborate and difficult.

2450 Probability & Statistics (2nd Semester)

1 Credit

Prerequisites: Algebra I

Elective: 11, 12

Probability and Statistics provides students with an introduction to important topics in statistics by focusing on the statistical thinking behind data collection and analysis. It helps students be more discerning consumers of statistics, teaching them to interpret the numbers in surveys, election polls, and medical studies. Topics include sampling, surveys, experimental design, organizing data, distributions, probability, and inference.

2480 Consumer Math (1st Semester)

1 Credit

Prerequisites: Algebra I

Elective: 11, 12

Consumer Math courses reinforce general math topics (such as arithmetic using rational numbers, measurement, ratio and proportion, and basic statistics) and apply these skills to consumer problems and situations. Applications typically include budgeting, taxation, credit, banking services, insurance, buying and selling products and services, home and/or car ownership and rental, managing personal income, and investment.

SCIENCE COURSES

3150 Physical Science

2 Credits

Prerequisites: None

Required: 9

This course provides students with a basic knowledge of physics and chemistry. Students will be taught Physics from an inquiry perspective in the first semester and use phenomenon and technology to experiment with and discover concepts of physics. Topics include electromagnetism, wave properties, laws of motion, and energy. In the second semester, students will be taught Chemistry in a lecture format that focuses on basic chemistry concepts, atomic structure, periodic table, chemical bonding, and chemical reactions. Physical Science provides a basis for future study in physics and chemistry topics.

3250 Biology

2 Credits

Prerequisites: Physical Science

Required: 10

This course provides students with the opportunity to study the principles of life on earth through investigation and observation. Students will investigate topics including macromolecules, bacterial growth, cell types, cellular structure and function, cellular reproduction, cancer and stem cell research, plant and animal energy mechanisms, the structure and function of DNA, genetics, dissections, human body systems, and current topics in science research.

3280 Environmental Science Issues (1st Semester)

1 Credit

Prerequisites: Biology or currently enrolled in Biology

Elective: 10,11,12

Environmental Science Issues is a project-based class that will examine the relationship between humans and the environment. This class will specifically look at how humans interact with the natural resources around them including: sustainability, water quality in terms of chemical tests and species indicators, soil quality, topography as it relates to water movement and preventing erosion, and invasive species. Other topics may include: climate change, evolution, renewable and nonrenewable resources, mining, and deforestation. This course will focus on real-life data collection opportunities for the students. Students should enjoy spending time outdoors as the class will work with local conservation staff to assist in available projects and collect data. If you are interested in a career related to Dept. of Natural Resources (DNR) or County Conservation, this would be a good class to take. (*Offered even years, alternates with Weather & Climate*)

3320 Forensic Science

2 Credits

Prerequisites: Geometry or currently enrolled in Geometry

Elective: 9,10,11,12

Forensic science is the application of scientific knowledge to questions of civil and criminal law. This course is a lab-based, hands-on course that will explore what forensic scientists do. You will learn modern forensic methods and use scientific methods to solve problematic situations. This course will focus on collection and analysis of crime scene evidence and explore lab analysis techniques. Mock crime scenes will be investigated and short case studies analyzed. Assessments are based on projects or application of content through labs or activities. 1st semester will cover Observation, Crime Scene investigation and Evidence collection, Fingerprinting, Blood Spatter, Crime scene case studies, and some student selected topics. Second semester will cover topics based on student selection that can include: hair, fibers/textiles, pollen/spores, DNA fingerprinting, drug identification and toxicology, handwriting analysis and forgery, time of death characteristics, soil, bones, glass, casts and impressions, tool marks, and ballistics.

3370 Chemistry**2 Credits**Prerequisites: Physical Science and Algebra IElective: 11,12

This course is designed to instruct the student in the contributions of chemistry to modern society, and the historical contributions of chemists. Students will work on problem solving and lab work to develop independent thinking skills. Areas of content to be covered include lab procedures, nature of matter and energy, atomic structure and periodic table, covalent and ionic bonding, chemical equations, the mole, solutions, stoichiometry (chemistry math and conversions), and types of reactions. The class will participate in a crystal growing competition in the fall. The students will apply their chemistry knowledge to solve some forensics cases. Strong math skills are highly recommended. If you plan to go to a 4 year college, Chemistry should be taken.

3470 Physics**2 Credits**Prerequisites: Physical Science, Geometry, & Algebra IIElective: 11,12

This course is designed to give students a more advanced understanding of physics with an emphasis on math and experimentation. This class is a student led class with physics topics being determined by the students and teacher. Topics covered in the past included Astrophysics, Quantum Physics, Classical Mechanics, Energy, Particle Physics, and Nuclear Physics. Any physics related topic can be covered with no specific order. Students will need to have a mathematical understanding of Algebra for many of these topics.

3475 Robotics***2 Credits**Prerequisites: NoneElective: 9,10,11,12

Robotics is a projects-based course designed to explore the current and future use of automation technology in industry and everyday use. The students will receive a comprehensive overview of robotic systems and the subsystems that comprise them with a hands-on approach to 3D modeling/printing, programming, hardwiring, and engineering. Students will also have the opportunity to participate in Robotics club and competition. Students will be required to document their progress weekly. *Students may take this as a year-long course or for one semester.*

3505 Astronomy**1 Credit**Prerequisites: Physical Science and Algebra IElective: 10, 11, 12

This course introduces students to the expansive cosmology of the universe from an astrophysics perspective. This course is student-led with astronomy topics being determined by the students and teacher. Topics may include the beginning and end of the universe, formation of celestial objects, detection of stars and other celestial objects, general relativity, warping of spacetime, and exoplanets. Students will learn current discoveries and telescopes in use throughout the course. *This course is one semester long.*

223520 Earth Science (2nd Semester)**1 Credit**Prerequisites: NoneElective: 9, 10, 11, 12

Earth Science will introduce students to science concepts based on changes in Earth's structure and processes. Students will use models to analyze these changes and make predictions based on data. Topics will include plate tectonics, landform formation processes, volcanoes, earthquakes, rocks, minerals. *(Offered odd years, alternates with Ecology)*

3580 Science, Technology, and Society***2 Credits**Prerequisites: NoneElective: 9,10,11,12

In this course, students will critically think about various technologies and scientific discoveries of new and old and discuss and write about the implications they have on society. This course is discussion-based and student-led. This course includes topics that are determined by the students and teacher. This course begins with teaching literacy in peer-reviewed scientific research, long-form discussion, and argumentation. This course emphasizes a significant amount of scientific reading and writing. This course has a midterm and final paper where students determine an argumentative topic and write about a topic discussed in class with an emphasis in scientific research. Students will be required to document their reflections weekly on the discussions they had in class. *Students may take this as a year-long course or for one semester.*

3290 Ecology

1 Credit

Prerequisite: None

Elective: 9, 10, 11, 12

Course Description

This course will consider the characteristics of ecosystems and interactions within ecosystems. Topics will include: biomes, biodiversity, evolution, adaptation, plant and animal interactions, overpopulation, exponential growth, endangered species, extinction, food webs, food chains, classification of kingdoms. This course will use local ecosystems to collect data for analysis. Students should be willing to go outside for days in which field data is collected. *(Offered even years, alternates with Earth Science)*

3285 Weather and Climate

1 Credit

Prerequisite: None

Elective: 9, 10, 11, 12

Course Description

This course will consider topics related to weather and climate that examine the properties of the earth's atmosphere. Topics will include atmospheric layering, changing pressures, winds, water vapor, air masses, fronts, temperature changes, weather forecasting, cycling processes, seasonal changes, and climatic patterns. Skills will be developed in reading weather data, mapping with latitude and longitude, collecting weather data, and using data to analyze topics and draw conclusions while developing reasoning skills. *(Offered odd years, alternates with Environmental Science)*

SOCIAL STUDIES COURSES

4350 American History 2 Credits

Prerequisites: None

Elective: 10,11,12

This course is arranged to study the period of American History from the 1900's to the Vietnam War. The students will evaluate how events in this period of American history brought us to where we are today. The students will also reflect how events in American history might have touched the lives of their ancestors and as a result shaped their lives.

4205 Geography (1st Semester) 1 Credit

Prerequisites: None

Required: 9

This course will teach students about the world in which they live. It focuses on space, resources, and people. In this course students will practice basic map skills, which will help them better grasp what the world around them looks like. Students will gain exposure to the geographic development of the United States, Canada, and other countries. Students will also learn to use maps and graphs to gain a better understanding of Geography. This course also focuses on statistics related to population, migration of peoples, and wealth distribution. Social and Geographical changes over time across the world will be a focus of the course.

224460 Financial Literacy (2nd Semester) 1 Credit

Prerequisites: None

Required: 9

This course will teach students a variety of topics related to personal financial responsibility. It will cover several topics including: savings, investments, wealth-building and college planning, credit and debt, consumer awareness, money management, and insurance.

4130 World History (1st Semester) 1 Credit

Prerequisites: None

Elective: 9,10,11,12

This course will focus on looking at how the world has changed socially, economically, and politically from Medieval Europe until the Cold War. Some of the topics that will be discussed will be the fall of the Holy Roman empire, start of Renaissance, the enlightenment, era of Revolutions, Rise of communism/Cold War. By studying these time periods students will be able to compare and contrast different styles of government, evaluate how cultures have changed and the impact it has had on society, and how conflicts have impacted the relationships between nations.

4230 Global Issues (2nd Semester) 1 Credit

Prerequisites: None

Elective: 9,10,11,12

This course focuses on issues that affect us on local, state, national and international bases. The entire first quarter is devoted to these current issues, while the second quarter is devoted to exploring human rights and economic issues, including the Middle East and advertising.

4250 Early American History (2nd Semester) 1 Credit

Prerequisites: None

Elective: 9,10,11,12

This course will take students on a thematic journey from the settlement of America to the end of the Civil War. Students will reflect on how American culture, industry, politics, women's rights, and warfare changed over this time.

4450 American Government (1st Semester) 1 CreditPrerequisites: NoneRequired: 11 or 12

In American Government we strive to answer the questions concerning civic life, politics, and government in general. What are the foundations of the American political system? How does the Government, established by the Constitution, embody the purposes, values and principles of American democracy? What is the relationship of the United States to other nations and to world affairs? What are the roles of citizens in American democracy? We study the structure and responsibility of the three main branches of government as well the structure of state and local governments and of prime importance is the study of the constitution.

4280 Modern US History (1st semester) 1 CreditPrerequisites: NoneElective: 9,10,11,12

This course is arranged to study the period of American History from Vietnam to the present. The students will evaluate how events in this period of American history brought us to where we are today in United States history.

4470 Economics (2nd Semester) 1 CreditPrerequisites: NoneElective: 10 11,12

Students will learn what economics is, the economic systems and decision making, and about business organizations and economic institutions. They will learn about the forces of supply and demand, market structures and the role of our government in economics. They will study the monetary system, learn about our gross national product, business cycles, unemployment, inflation, poverty, and wealth. They will learn about international trade, cooperative economic systems, budgets and other economic life skills.

4530 Psychology (1st Semester) 1 CreditPrerequisites: NoneElective: 9,10,11,12

This class will introduce students to the intricacies of the human mind. Topics of emphasis will include the development of the mind, physiological processes, how we learn, emotions, and mental and behavioral disorders. By understanding the nature of the human mind, students will comprehend how to apply what they learn more efficiently.

224535 Topics in Psychology (2nd Semester) 1 CreditPrerequisites: PsychologyElective: 9,10,11,12

This course will further expand students' knowledge of psychology and the human mind. This course will be tailored to focus on multiple different topics that people study in psychology such as childhood development, behavioral, social, and abnormal psychology.

4550 Sociology (2nd semester) 1 CreditPrerequisites: NoneElective: 9,10,11,12

Sociology examines how individuals, groups, and institutions interact to make up human societies. You will learn about sociological perspectives, culture, social structures, and social inequality. You will study people and the roles they play in society, both as individuals and groups.

BUSINESS COURSES

6210 General Business (1st Semester)

1 Credit

Prerequisites: None

Elective: 9,10,11,12

The course provides knowledge and application of various subjects in the business world. Students will learn about various areas in business including, methods of business ownership, consumer rights and responsibilities, banking, insurance, and money management. The student will learn how to be a wise consumer, how to prepare a budget and learn about banking services and how to write checks.

6230 Business Law (2nd Semester)

1 Credit

Prerequisites: None

Elective: 9,10,11,12

This course provides knowledge of our legal system which should be of practical value to every student. Included are studies of law and its relationship to society, law enforcement, and the court system, and the law of contracts and contractual agreements in everyday life. The student will be able to read and interpret pertinent legal case documents.

6250 Marketing (1st Semester)

1 Credit

Prerequisites: None

Elective: 9,10,11,12

This course is designed to provide an overview into the area of Marketing. The student will learn about sales and how to make the sale. The student will learn how to promote products or services. The student will learn about advertising. Various career opportunities and competencies for employment in Marketing will be discussed. Students will learn the basics on how to price products and how to target a product and which group to target.

6410 Accounting

2 Credits

Prerequisites: None

Elective: 9,10,11,12

Students will complete accounting cycles of proprietorships and corporations using a debit/credit approach. Topics include analyzing transactions, journalizing, posting, petty cash, financial statements, and adjusting and closing entries. The proper uses of checking accounts and financial reports required of businesses, will be studied. This course will introduce students to accounting for sales, taxes, bad debts, and the use of special journals. Students will learn how to begin a computerized accounting system, make entries on a computer, and prepare computerized reports.

COMPUTER COURSES

2540 Computer Business Applications (1st Semester) 1 Credit

Prerequisites: None

Elective: 9,10,11,12

This course will introduce students to popular and useful programs used in business today. By the end of the course, students will be able to create documents and presentations with Word, Excel, PowerPoint, and Access. This experience will be gained by doing several projects with each software title.

2575 Computer Programming 2 Credits

Prerequisites: None

Elective: 9, 10, 11, 12

Computer Programming provides students with the knowledge and skills necessary to create computer programs. Students will be introduced to Python and Java programming languages. Emphasis will be placed on designing programs, using proper syntax, and debugging programs. *Students may take this as a year-long course or for one semester.*

2580 Intermediate Computer Business Applications (2nd Semester) 1 Credit

Prerequisites: Computer Business Applications

Elective: 9, 10, 11, 12

Extends students' basic knowledge of Microsoft Office software applications including Word, Access, Excel and PowerPoint. Upon completion of this course students will be able to demonstrate their proficiency at the core level of the MOS (Microsoft Office Specialist) certification.

2560 Emerging Technology Trends (2nd Semester) 1 Credit

Prerequisites: Computer Business Applications

Elective: 9,10,11,12

Develops knowledge of multimedia concepts by studying multimedia software and the hardware components needed to develop and view multimedia productions. Assessment projects are used by students for demonstration of knowledge of multimedia elements (copyright, video, graphics, sound, animation), knowledge of tools (digital camera, video camera, scanner, cams), and knowledge of editing software (sound editing, video editing, graphics editing). *Students will earn dual credit with Kirkwood Community College*

222570 Web Design (2nd Semester) 1 Credit

Prerequisites: None

Elective: 9,10,11,12

This is a project-based course that teaches students how to build their own web pages. Students will learn the languages HTML and CSS, and will create their own live homepages to serve as portfolios of their creations. Students will finish this course with tangible, professional, mobile responsive websites.

FOREIGN LANGUAGE COURSES

5110 Spanish I

2 Credits

Prerequisites: None

Elective: 9,10,11,12

Spanish I is an introduction to the language. It is designed to provide students with an oral proficiency foundation. Written communication will also be practiced. The exercises involve writing to increase vocabulary, teaching correct word order, and correcting grammatical forms. Much emphasis is given to various vowel and consonant sounds as well as authentic patterns of intonation rhythm and pronunciation. Elements of Spanish culture will be continually discussed. Upon completion of Spanish I the student will know a basic day-to-day household vocabulary and be able to use it in familiar situations.

5130 Spanish II

2 Credits

Prerequisites: Spanish I or experience

Elective: 10,11,12

Spanish II expands the student's experience with vocabulary, pronunciation and more complex grammatical structures. Spanish traditions and culture are continually discussed. Daily class activities such as textbook exercises, dictations, videos and games enhance listening and speaking skills. Class participation is essential and is an important factor in evaluations. Upon completion of Spanish II the student will have a good knowledge of practical vocabulary, an understanding of grammatical structure and will pronounce Spanish correctly.

5150 Spanish III

2 Credits

Prerequisites: Spanish II or experience

Elective: 11,12

Students continue to develop communication skills in order to sustain meaningful conversations on a variety of topics. Reading and writing skills develop together with sensitivity and an appreciation of Spanish culture. All verb tenses will be learned and practiced daily. Upon completion of Spanish III the student will demonstrate comprehension of conversational and narrative passages of increasing length and structural complexity. Also, the student will experiment with several sentence patterns in order to discuss simple topics related to self and environment.

5170 Spanish IV

2 Credits

Prerequisites: Spanish I, II, III or experience

Elective: 12

Spanish IV Advanced grammatical concepts will be covered, as well as in-depth looks at various aspects of Spanish-speaking culture. Students will delve into the subtler aspects of the language and its expression through writing, presentations, videos, and interactions with native-speaker guests. This is an opportunity to learn Spanish at a level which will help develop students' communicative skills across a broad range of vocabulary and a wide variety of situations.

ART COURSES

7200 Art I (1st Semester)

1 Credit

Prerequisites: None

Elective: 9,10,11,12

Intro to Art is designed to provide students with a variety of techniques for self-expression available through art. Students will be given experiences in drawing, printmaking, sculpture, ceramics, painting, and design. Art history will be an integral part of the course. During the course students will gain basic knowledge of the work of well-known artists; and they will demonstrate some awareness of the changing patterns of artistic expression through time. Students will be evaluated both on the basis of participation in activities and on the quality and quantity of the project production.

7230 Art II (2nd Semester)

1 Credit

Prerequisites: Art I (Intro to Art)

Elective: 9,10,11,12

Drawing is designed to enhance the student's ability to communicate ideas effectively through the various uses of different drawing media. Life drawing and creative idea drawing is emphasized during the course. Integration of historically important artist and artistic movements are incorporated into projects. Students will be able to demonstrate ability to effectively communicate visual interpretation of settings as well as create ideas using various drawing media, and the students will develop a better sense of aesthetic judgment. Students will be evaluated on class participation and project quality.

7250 Sculpture (2nd Semester)

1 Credit

Prerequisites: Art I & Art II or instructor's permission

Elective: 10,11,12

Sculpture is designed for students who enjoy working with shape and form in 3-dimensional work. A broad scope of projects will be explored, and artists who worked in various sculpture media will be studied. Various techniques in clay, plaster, wood, metals, Styrofoam, glass will be explored to allow the student self-expression in producing various sculptures. Most materials will be provided although there will be extra charges for some materials. Students will be evaluated on class participation and project quality.

7330 Painting (1st Semester)

1 Credit

Prerequisites: Art I

Elective: 10,11,12

Painting is specialized in that it deals mainly with the field of painting. Students will be introduced to color and form. Various projects and exercises will lead the students into painting with watercolor, airbrush and acrylics on 2-dimensional and 3-dimensional work. Students will demonstrate their ability to read, understand, and mix colors of pigment; will show understanding of artists past and present and their different styles of work; and show knowledge of different equipment and correct terms. Students will be evaluated on class participation and project quality.

7370 Advanced Art*

1 Credit

Prerequisites: INSTRUCTOR'S PERMISSION ONLY

Elective: 11,12

Advanced Art is designed to allow advanced art students time to explore different art mediums of their choice after all other avenues have been exhausted at Central City High School. A contract defining the scope and depth of the student's interest will be drawn up and signed by both the student and the instructor. Evaluation will be on journal writings, written reports, daily participation and portfolio of all of their works.

AGRICULTURE COURSES

9110 Introduction to Agriculture

2 Credits

Prerequisites: None

Elective: 9,10,11,12

This course is an introductory course designed to expose students to different facets of FFA and the agriculture industry. Students will gain knowledge in the history of agriculture, FFA opportunities, gain leadership skills, and participate in a Supervised Agricultural Experience (SAE) using the Agriculture Experience Tracker (AET). Instruction and student learning will occur through lectures, student projects, group discussions, hands-on experiences, FFA experiences, CDE participation, and their SAE program. The second semester of this course is designed to expose students to the agriculture industry in Iowa, primarily animal science and plant science. Students will study animal digestion and nutrition, animal reproduction, and animal health. In-plant science students will develop skills and knowledge in types of plants, seeds, reproduction, plant nutrition, and harvesting. Instruction and student learning will occur through lectures, student projects, group discussions, hands-on experiences, FFA experiences, CDE participation, and their SAE program. *Students may take this as a year-long course or for one semester.*

9140 Greenhouse/General Horticulture (2nd semester)*

1 Credit

Prerequisites: None

Elective: 9,10,11,12

This course will provide students with the basic skills necessary to manage a greenhouse enterprise. Students will gain an understanding of different greenhouse structures, as well as the biological and physical concepts involved in greenhouse operations, including heating, cooling, watering, humidity control, and pest management. Students will be responsible for purchasing, transplanting, maintaining, and marketing of greenhouse crops.

9145 Plant Science

1 Credit

Prerequisites: None

Elective: 9,10,11,12

The course of study will involve the study of biological concepts and principles of plant growth and development, with a special focus on agronomy. Students will select specific plants to study throughout the course and apply principles from each unit of study to those plants. Students will continue to improve their leadership skills, learn about opportunities available to second year FFA members, and continue work on their SAE programs. This class provides background information for Greenhouse Management. Students will be expected to work in the greenhouse.

9165 Ag Business (1st Semester)

1 Credit

Prerequisites: None

Elective: 11,12

Ag Business class provides students with the information and skills necessary for success in agribusiness and in operating entrepreneurial ventures in the agriculture industry. This course is designed to expose students to the basic principles of economics, accounting, and business management skills. There will be several topics covered including: Marketing & Surveying, Risk Management, Cost of Doing Business (income, expenses, interest, loans etc.), Business Organization, Basic concepts of Entrepreneurship, Marketing Plan/Business Plan, Contracts & Markets. *(Offered odd years, alternating with Vet Science)*

9220 Ag Animal Science (1st Semester)**1 Credits**Prerequisites: NoneElective: 9,10,11,12

Animal Science course that imparts information about the care and management of domestic and farm animals. This course covers animal nutrition, health, behavior, selection, reproduction, anatomy and physiology, facilities, product processing, and marketing. Students will study a particular species, for example, swine, cattle, horses, fowl, sheep, and so on, or they may learn how to care for and maintain livestock as a more inclusive study.

9240 Veterinary Science (1st Semester)**1 Credit**Prerequisites: One semester of Animal ScienceElective: 9,10,11,12

This course will develop students' understanding of the small, companion and farm animal industry, animal anatomy and physiology, animal nutrition, animal reproduction, animal ethics, and welfare issues, animal health, veterinary medicine, veterinary office practices, and animal services to humans. Career exploration will focus on veterinarians, veterinary lab technicians, office lab assistants, small animal production, research lab assistants, and animal nutrition lab technicians. *(Offered even years, alternating with Ag Business)*

222910 Ag Issues and Leadership (Independent Study)**2 Credits**Prerequisites: 2 Ag Credits and Instructor's PermissionElective: 10,11,12

This course will put student knowledge of the agriculture industry to work through investigations of the industry on the local, state, and national levels. There will be several different topics covered including: Various environmental, crop, animal, economy, trade, food quality, safety, and international agriculture issues. Various presentations, demonstrations, and sales techniques. Information sharing methods through one-on-one, small group, and large audience formats. Agricultural product sales methods

INDUSTRIAL TECHNOLOGY

9690 Introduction to Pre-Engineering Technology (2nd Semester) 1 Credit

Prerequisites: None

Elective: 9,10,11,12

This course integrates technology-oriented applications of mathematics and science into pre-engineering activities. Topics include material sciences, technology processes, enterprises, and career opportunities.

9705 Engineering Applications (2nd Semester)

1 Credit

Prerequisites: Intro to Pre-Engineering

Elective: 10,11,12

This course provides students with an overview of the practical uses of engineering applications. It integrates technology-oriented applications of mathematics and science into basic engineering activities. Primarily concentrating on mechanical and structural engineering, topics include the engineering design process, design analysis, data collection and data analysis as well as career investigation. This course provides students with an overview of the practical uses of applying engineering applications to simple lab projects. Projects include but are not limited to CO2 cars and craft stick bridges. Assessments are completed in class and are based on quality of work completed, employability skills, and other items as determined by the instructor.

229430 Introduction to Industrial Technology (1st Semester)

1 Credit

Prerequisites: None

Elective: 9,10,11,12

This course is an introductory prerequisite for any other class taken in the Industrial Technology area. It is designed to give students a basic introduction and overview to the topics available within the Industrial Technology Department. It will cover a wide range of study of the following areas; Architecture and Construction, Graphic Communication, Manufacturing, Power and Energy, and Transportation. Most units will include safety, hands-on work, and in some areas a project. The curriculum is designed around exploration of these systems and their impacts on society. Students will also develop problem-solving skills, explore career awareness, and relate technology to math and science.

229450 Construction Materials Processing (1st Semester)

1 Credit

Prerequisite: Introduction to Industrial Technology

Elective: 10, 11, 12

Students will continue developing team-building skills introduced in Introduction to Technology. This is the foundational course for the architecture and construction cluster. Students will learn proper construction terminology and safe instruction in hand and power tool usage through project construction. Students will experience plan development, reading project drawings, material identification, cost estimation and production.

229440 Architectural Plans and Specs (2nd Semester)

1 Credit

Prerequisites: Pre-Engineering or Construction 10

Elective: 11, 12

Introduces the skills and methods for understanding and interpreting construction drawings and technical specifications for residential and commercial buildings. This course is offered at Central City High School for Kirkwood Community College credit.

229465 Construction Technology (2nd Semester)***1 Credit**Prerequisites: Constructional Materials ProcessingElective: 11,12

This one semester course is designed to advance the knowledge and practical skills that were introduced in the Construction Materials Processing. Students will be responsible for the construction of individual and/or group project(s) built throughout the semester. Projects will be determined by the needs and wants of the school and community. Projects are assigned and developed according to the skill levels and experience of the students. Projects can range from basic furniture and cabinetry to small building construction. There will be a wide range of topics investigated during each project, such as job safety, job site management, production planning, project problem solving, and project review. Assessments are completed in class and are based on work completed, employability skills, and other skills as determined by the instructor.

MUSIC COURSES

7130 Concert Choir*

2 Credits

Prerequisites: None

Elective: 9,10,11,12

This course meets daily and performs at concerts, graduation, and State Large Group contest. Each student has the additional opportunity of participating in various contests, honor choirs, and festivals. Students are required to attend all performances/concerts that are given outside of the school day. Students are required to take vocal lessons, either on an individual basis or within a small group. This class incorporates note reading, foreign languages, proper vocal production, various genres of music, as well as other numerous musical aspects. Students not only develop as musicians, but also acquire individual discipline, responsibility, and pride that are achieved when working cooperatively toward a group goal.

7150 Instrumental Music*

2 Credits

Prerequisites: None (Previous experience beneficial)

Elective: 9,10,11,12

Students will be involved in the study and performance of instrumental music. A wide variety of styles will be explored. Students will spend the first two months in marching band. From November through May concert music will be the emphasis. In the spring there are opportunities for individual and solo performance, small ensemble performance and large ensemble performance. Students will be required to participate in weekly lessons. In addition, students are required to participate in all scheduled performances and activities, many of which take place during evening and weekend hours. There are many opportunities to participate in honor bands around the area.

7170 Jazz Ensemble (2nd Semester)*

.5 Credit

Prerequisites: By audition

Elective: 9,10,11,12

Admission to Jazz Ensemble will be by audition and permission of the instructor regardless of grade level. Students will learn and perform a wide variety of styles including: swing, be-bop, funk, rock, and ballad. Membership requires attendance at all functions, many of which take place in the evenings and on weekends. Must be a member of the concert band to perform in the Jazz Ensemble.

Vocal Jazz Ensemble (2nd Semester)*

.5 Credit

Prerequisites: By audition

Elective: 9,10,11,12

Select Ensemble, which rehearses outside of the school day, performing jazz and contemporary a cappella music. Must have teacher's approval to join.

MISCELLANEOUS

3330 Crime Scene Case Studies (Independent Study)

1 Credit

Prerequisites: None

Elective: 9,10,11,12

This independent study course will investigate real and fictitious criminal cases. This course will require students to read through case documents and identify the information that is pertinent to identifying the criminal. Students will take notes on what information from the documents is relevant to solving the crime. Students will be exposed to documents similar to crime scene reports, search warrants, interview transcripts, lab reports and other documents as they relate to the scenario. Students will use and improve their critical thinking and problem solving skills to identify who committed the crime. Students will prepare written reports that explain their research and notes that are taken for each crime scene to explain what happened in the scenario. There will be a significant amount of reading for this course. Students will complete a research paper on a criminal case of their choice. *This course is one semester long.*

6340 Workplace Internship - not currently available

1 Credit

Prerequisites: School Counseling Office approval

Elective: 11,12

Internships are a 90-hour, scheduled, generally unpaid opportunity for students who are exploring a specific career field. This is an in-depth opportunity for both the student and the employer to get to know the student's aptitude and interest in this field as a possible future career. In addition to the time on-site, students will attend three Career Development meetings spaced throughout the term. Internship selection is based on an employer created job description, student application, and interview.

8640 How College Works

1 Credit

Prerequisites: None

Elective: 11,12

Explores individual strengths, strategies for solidifying personal responsibility, college readiness/academic success strategies, career readiness/vocational goals for students as they identify a college program or major. Emphasizes differences between high school and college expectations. Identifies appropriate career areas. Offers aids in taking and using placement tests for college admission and personal financial management. This class fits best for juniors or fall semester seniors. This course is offered at Central City High School for Kirkwood Community College credit.

9900 Driver's Education (Summer)

1 Credit

Prerequisites: None

See the high school office for sign-up for summer Driver's Education

PHYSICAL EDUCATION COURSES

8100 Physical Education* **.5 Credit**

Prerequisites: None

Required: 9,10,11,12

This course is designed to teach students about the different activities in which they can become involved. Activities are structured to attain the following major objectives:

1. Develop and maintain physical efficiency in relation to a student's age and condition.
2. Develop motor skills useful in game situations and everyday life.
3. Develop socially acceptable modes of behavior.
4. Develop enjoyment of wholesome physical recreation.
5. Develop knowledge of rules, strategy and history of sports.

8125 Sports PE* **.5 Credit**

Prerequisites: None

Required: 9,10,11,12

Sports PE will provide students with knowledge, experience and an opportunity to develop skills in recreational and team sports settings.

8160 Wellness I **1 Credit**

8170 Wellness II **1 Credit**

Prerequisites: None

Elective: 9,10,11,12

This set of courses is designed to focus on the individual's opportunity to develop and practice lifestyles, which promote one's top wellness now and later. Each course will be a term in length and can be taken in any order.

Wellness I: Mental Health, Public Health, Substance Abuse, Non-communicable Diseases such as Cancer, and Consumer Health.

Wellness II: Physical Fitness, Environmental Health, Communicable Diseases including STD's, CPR and First Aid, and Nutrition

8200 Strength and Conditioning* **.5 Credit**

Prerequisites: None

Elective: 9,10,11,12

This course is designed to teach students about different ways they can achieve and maintain a healthy fitness level without participating in an individual and team sport setting for physical education. This course gives students an opportunity to work at their personal fitness level to achieve individualized goals. Students will work on teacher directed activities and will also work on student-centered activities.

1. Develop and maintain physical efficiency in relation to a student's age and condition.
2. Develop socially acceptable modes of behavior.
3. Develop enjoyment of physical fitness.
4. Develop knowledge of strength training.

8260 Low Impact PE* **.5 Credit**

Prerequisites: None

Elective: 9,10,11,12

Low Impact PE will emphasize conditioning activities that help develop muscular strength, flexibility and cardiovascular strength. Activities will include, but not limited to, walking, yoga, fitness videos, circuit training and a variety of other activities.

COLLEGE OPPORTUNITIES

See the H.S. Counseling Office for Details

Courses for college credit while in high school are also available. These courses provide college credit opportunities for juniors and seniors in good standing.

Kirkwood Career Academies may include:

Advanced Manufacturing with Robotics & Welding Academy
Architecture, Construction and Engineering (ACE) Academy
Arts & Sciences: Pre-Liberal Arts Transfer Academy
Automotive Technology Academy
Digital Arts, Social Media, and Marketing Academy
Emergency Medical Technician (EMT) and Fire Science Academy
Patient Care Academy
Pre-Med, Nursing, and other Professional Health Careers Academy
Technology Careers Academy

Courses at Kirkwood Community College (Online or at Main Campus)

Restrictions apply. See the Professional School Counselor.

10 STEPS TOWARD ACADEMIC SUCCESS

1. Attend every class.
2. Complete assignments before class.
3. Sit in a place that keeps you on track in the classroom.
4. Take good notes during class.
 - a) Taking notes helps you pay attention.
 - b) Get class notes from the teacher or a classmate if you are absent.
5. Review your notes within 24 hours of taking them.
6. Schedule your studying time at home and stick to it.
 - a) Use class time and study halls.
 - b) Create your own study plan.
7. Begin studying a week before a test.
8. Talk with you teachers. Know what they expect.
 - a) Learn how to adapt to different teachers.
 - b) Be prepared for class.
9. Take care of your body – get enough sleep.
10. Stay after school for extra help.
 - a) Schedule meetings with your teachers.

***Take Care of the Little Things
And the Big Things Will
Take Care of Themselves***