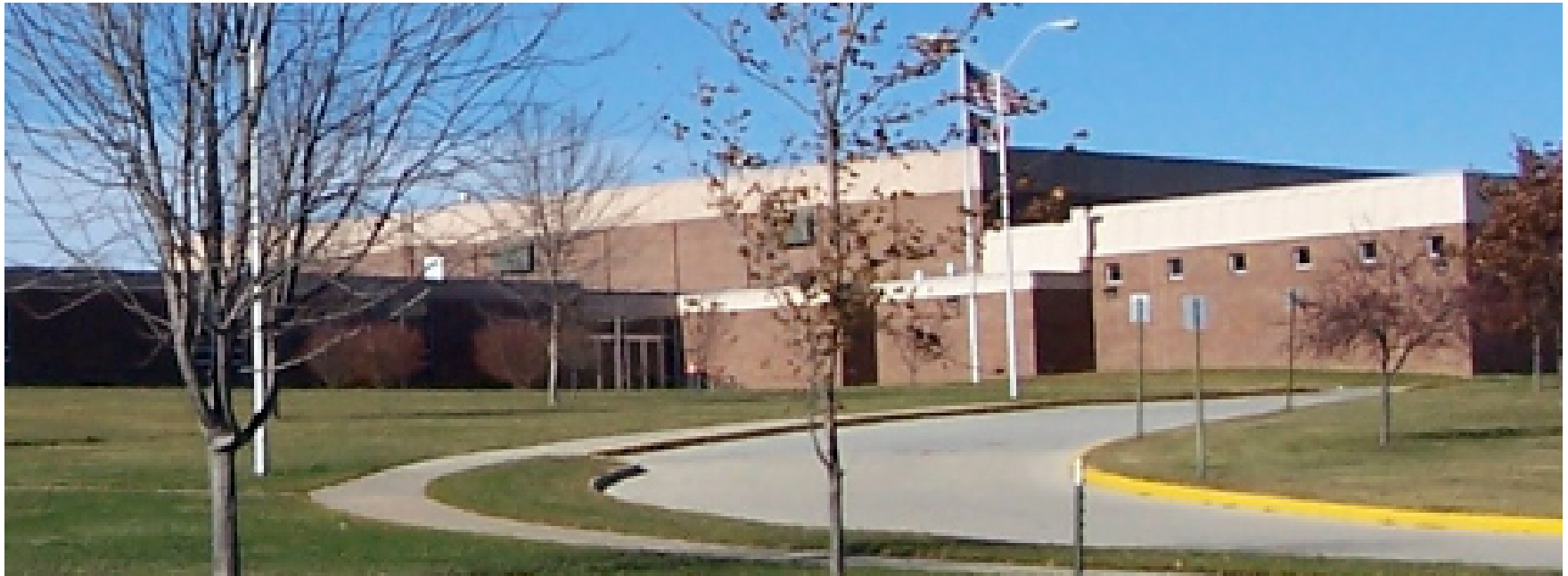


CLARINDA HIGH SCHOOL



CURRICULUM PLANNER 2016-2017

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INTRODUCTION

CAREER FIELDS

Career Fields are a broad grouping of 16 career clusters based on commonalities of interests, strengths, and skills among the clusters based on industry groupings and educational levels. Participation in a well-organized, well-planned career development component, which includes the concepts of Career Fields, directly affects both readiness for employment and actual employability success: students' performance in school improves, involvement in school and community activities expands, decision-making skills strengthen, career preparation advances, and flexibility for meeting change increases.

Therefore, in selecting courses, students should consider their Educational Goals and look ahead to what they will do immediately following high school. Students who set goals for their educational planning and carefully select courses based on need will be better equipped for today's and tomorrow's challenges.

CHS students set their educational goals in the following ways:

Complete the career exploration tool to identify student strengths and interests.

Complete a Career Field assessment to determine one or two fields they are interested in pursuing.

Create a four Year Plan based on their career interests.

Complete the scheduling process.

The Curriculum Planner has been prepared to help students and parents to be better acquainted with the course offerings at Clarinda High School, and to provide information, which may assist in the selection of courses. We urge your careful consideration of the selection of courses at this time because our high school schedule is built in terms of each course.

The courses offered in this booklet are a list of possible courses you may have an opportunity to take next year. We may not be able to offer all the courses in the curriculum planner, but the students need to sign up for desired courses. A master schedule will be developed according to the student's interest.

You will find Career Drawing Boards located at the end of the Curriculum Planner. Please use these to record your chosen courses for the coming year.

We encourage you to take the time to look at the course offerings and make a decision-based on interest, needs, and career preparation.

COLLEGE PREP COURSES

Each college or university has specific recommendations regarding high school preparation. The following suggestions should help you plan your high school program.

ENGLISH: Four years including composition, literature, and speech.

MATHEMATICS: Three years required. We recommend Algebra I plus two higher-level courses. An increasing number of specializations at the college level expect four full years of pre-collegiate mathematics.

SOCIAL STUDIES: Three years of study is required in history, government, economics, and sociology.

SCIENCES: Three years required. An increasing number of specializations at the college level expect four years of high school science.

FOREIGN LANGUAGE: At least two years recommended for most students, preferably three or more years. College requirements vary; students must check individual college catalogs to determine entry standards.

ART AND MUSIC: The arts contribute much to every student's awareness of his/her cultural heritage. Those who plan to attend a four-year college or university should seek opportunities for further study and for participation in co-curricular activities.

INDIVIDUAL INTEREST AREAS: Agriculture, business, computers, family consumer science, industrial arts, etc., contribute materially to the educational growth of an individual while serving as a foundation for continued study.

The high school staff, administration and counseling department will assume that parents and students have made every attempt to study the course description planner so that the final schedule submitted is permanent for the following year. Changes will be considered only on the basis of extreme necessity with a parent request, counselor recommendation, or administrative approval required for a schedule change.

COURSE GUIDELINES

Any student who enrolls in a multiple term course is required to complete all terms. Any exceptions to this rule will be considered on an individual basis with parental approval.

If a student fails the first term of a multiple term course, that student may or may not continue in the second term of that course, depending upon the subject.

NCAA CLEARINGHOUSE

Students wishing to register with the NCAA Clearinghouse for participation in NCAA Division I or II athletics after graduation should register on the Clearinghouse web site: www.ncaaclearinghouse.net. The Clearinghouse assures the initial eligibility of student-athletes entering NCAA member institutions.

The following courses have been approved by the NCAA for use in establishing the initial-eligibility certification status of athletes from Clarinda High School:

English Courses: English 9 A & B, English 10 A, Communications, English 11 A & B, English 12 A & B, Performance Literature, Public Speaking.

Math Courses: Algebra I, Algebra II, Pre-Calculus, Geometry, Statistics, and Calculus.

Social Studies Courses: World History, American History, Economics, Sociology, Human Behavior, and American Government.

Science Courses: Physical Science, Biology, Earth and Space Science, Ecology, Chemistry, Anatomy & Physiology, and Physics.

Additional Core Courses: Spanish I, Spanish II, Spanish III, Spanish IV.

ACT Minimums: In order to participate in intercollegiate athletics at the NCAA Division I level, students must score minimum scores matched with core GPA's (Grade Point Averages) on the ACT. The ACT may be taken during September, October, December, February, April, and June testing dates at any time during a student's high school career. For best results, the student is advised to take their first ACT test during April of the junior year.

Students should take the ACT several times. Prep Classes are available and study materials can be obtained from the Counseling Center. It is important to understand that colleges will sometimes "mix and match" the subtest scores from one ACT or another in order to "qualify" student athletes for their programs. Also, some students simply aren't good test takers, and schools recognize that an 18-composite ACT balanced with a 3.5 GPA is a good indicator that the student is a hard worker and capable, even if he/she may not do so well on standardized tests. For this "sliding scale," review the NCAA Clearinghouse web site - www.eligibilitycenter.org

Other Important Information

- **Division I** uses a sliding scale to match test scores and core GPA's.
- Students first entering a **Division I** collegiate institution must meet the 16-core-course rule, earn a minimum required GPA, and qualifying ACT/SAT test score. Students enrolling on or after August 1, 2016 must earn at least 2.3 GPA in core courses, meet an increased sliding-scale standard, and successfully complete 10 of 16 required core courses (10 of 16 must be completed before the 7th semester—senior year—of high school, 7 of the 10 must be in English, math, and science).
- **Division II** requires a minimum SAT score of 820 (verbal and math sections only) or a minimum ACT sum score of 68.
- Students first entering a **Division II** collegiate institution must meet the 16 core-course rule.
- For more information, please go to www.ncaa.org. Click on "Academics" then "Student-Athlete Eligibility" and "Becoming Eligible." You may also visit the clearinghouse Web site at www.eligibilitycenter.org.

STUDENT ELIGIBILITY SCHOOL ACTIVITIES

The high school participant

- Must be a full time student enrolled in 5 classes each trimester.
- Must pass all classes.
- Must meet all eligibility requirements of the Iowa Department of Education, the Iowa High School Athletic Association and the Iowa Girls Athletic Union. Any student failing a trimester class will be ineligible according to the regulations established by the State of Iowa. Athletic suspensions will result in 20 days of athletic competition while non-athletic ineligibility will result in a 30-calendar day suspension.
- Must meet district requirements of passing all classes at the end of a Hex (midterm) grading period. If a student is failing at the end of a Hex grading period, he/she will be “conditionally eligible” as long as he/she is attending the Guided Study Program that is described below.
- Ninth graders entering the high school for the first time will be declared academically eligible. Ninth grade students must meet the stated standards after the first Trimester grading period.
- Special Education students will be eligible based on the student progress on his/her individual education program and the recommendation of the IEP team.

These academic guidelines pertain to all activities extracurricular activities. Classes that meet during the course of the instructional day (Band, Drama and Vocal courses) are recognized as curricular in nature, thus, enrollment is exempt from student eligibility guidelines. However, participation in public performances by students in curricular classes may be subject to the Academic Eligibility criteria.

Guided Study Option

The Guided Study Program is designed to provide academic assistance to students who would like to remain “conditionally eligible” for activities. Students wishing to remain “conditionally eligible” must attend the Guided Study Program. Student grades will be monitored every two weeks.

Who will have the opportunity to attend?

- Students who received one “F” on their Hex (mid term) will be required to attend each day to maintain “conditional eligibility.”
- Students who receive an “F” for a course after the trimester will attend Guided Study sessions to regain their eligibility after the mandated suspension period.

When will the Guided Study take place?

Tuesday, Wednesday and Friday of each week from 7:30 AM to 8:10 AM.

What are the Expectations for Guided Study Program?

- Students must be engaged with school related work the entire period.
- Students will be allowed to work with a teacher during this period.
- Student’s grades will be monitored every two weeks.
- Students must attend all sessions in a prompt manner.
- Students failing to meet the exceptions of the Guided Study Program may result in dismissal from the program and revoking eligibility for activities.

GRADUATION REQUIREMENTS

Forty-eight credits are required for graduation.

Required Courses

Students (grades 9-12) will be required to enroll in five courses each term. Students may enroll in instrumental music and/or vocal music all three terms as part of their five courses. However, each term of music earns one-half academic credit toward meeting graduation requirements. Physical Education must be taken by every student each term each year and earns 0.18 credit per term.

The required courses at Clarinda Community High School are listed below:

World History	2 Credits
American History	2 Credits
American Government.....	1 Credit
Social Studies Elective	1 Credit
English 9 A & B.....	2 Credits
English 10 A	1 Credit
Communication.....	1 Credit
English 11 A & B.....	2 Credits
English 12 A	1 Credit
English 12 B or elective.....	1 Credit
Mathematics	6 Credits
Science (Physical Science and Biology)...	4 Credits
Science elective.....	2 Credits
Health (Health I)	1 Credit
Physical Education	1 Credit
Approved elective courses	20 Credits
Total Graduation Requirements	48 Credits

The following courses are required of all freshmen:

- **English 9 or Language Lab**
- **Pre Algebra, Algebra I, Geometry, or Algebra II**
- **Physical Science or Biology**
- **World History**

The following courses are required of all sophomores:

- **Communication**
- **English 10**
- **Biology**

The following courses are required of all juniors:

- **American History**
- **English 11 A & B**

The following courses is required of all seniors:

- **American Government**
- **English 12 A**

Health I is required of all students

EDUCATIONAL PROGRAM BY DEPARTMENTS

Course	Terms	Year	Credits
Language Arts			
English 9 A & B	2	9	2 Required
*English 10 A	1	10	1 Required
*English 11 A & B	2	11	2 Required
*English 12 A	1	12	1 Required
*English 12 B	1	12	1

Reading Courses

Language Lab	2	9, 10	2
* Intro to Theatre	1	11,12—10 by perm	1

Speaking Courses

*Communication	1	10	1 Required
*Public Speaking	1	11, 12	1
*Performance Lit	1	10, 11, 12	1

Writing Courses

Agricultural Comm.	1	11, 12	1
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Mathematics

Integrated Math	3	9	3
Pre Algebra	2	9, 10	2
Algebra I	2	9, 10, 11, 12	2
*Geometry	2	9, 10, 11, 12	2
*Algebra II	2	9, 10, 11, 12	2
*Pre-Calculus	2	10, 11, 12	2
*Calculus	2	11, 12	2
Statistics	1	11, 12	1
Practical Math	2	10, 11, 12	2

Science

Physical Science	2	9	2 Required
Biology	2	10, 11, 12	2 Required
Earth & Space Sci	1	9, 10, 11, 12	1
*Ecology	1	10, 11, 12	1
*Anat & Physiology	2	11, 12	2
*Anat & Physi Lab	1	11, 12	1
*Chemistry	2	10, 11, 12	2

Course	Terms	Year	Credits
*Physics	2	11, 12	2
*Fundamentals of Physics	1	10, 11, 12	1
Basic Anatomy	1	10, 11, 12	1

Social Studies

World History	2	9	2 Required
Geography	1	9, 10, 11, 12	1
Street Law	1	10, 11, 12	1
American History	2	11, 12	2 Required
Economics	1	11, 12	1
Sociology	1	10, 11, 12	1
Human Behavior	1	10, 11, 12	1
Current Issues/Am History	1	11, 12	1
American Government	1	12	1 Required

Foreign Language

Spanish I	2	9, 10, 11, 12	2
*Spanish II	2	10, 11, 12	2
*Spanish III	2	11, 12	2
*Spanish IV	2	12	2

Music

Band	3	9, 10, 11, 12	.5 per term
Flags	1	10, 11, 12	.5 per term
Vocal Music	2 or 3	9, 10, 11, 12	.5 per term
Mixed Choir	2 or 3	9, 10, 11, 12	.5 per term
Adv. Studies in Music I	1	10, 11, 12	1
Adv. Studies in Music II	1	10, 11, 12	1

Visual Fine Arts

Introduction to Art I	1	9, 10, 11, 12	1
Introduction to Art II	1	9, 10, 11, 12	1
*Drawing	1	9, 10, 11, 12	1
*Painting	1	10, 11, 12	1
*Three Dimensional Art	1	10, 11, 12	1
Photography	1	11, 12	1
*Art Portfolio	1,2,or 3	12	1, 2, or 3

<u>Course</u>	<u>Terms</u>	<u>Year</u>	<u>Credits</u>
<u>Drama</u>			
Intro to Theatre	1	10, 11, 12	1
Stagecraft	1	10, 11, 12	1
*Performance Lit***	1	11, 12	1

Physical Ed./Health & Safety

Physical Education	1	9, 10, 11, 12	.33
Aerobics	1	9, 10, 11, 12	.33
Advanced Fit/ P.E.	1	9, 10, 11, 12	.33
First Aid	1	11, 12	1
Health I	1	9, 10, 11, 12	1 Required
Health II	1	10, 11, 12	1
Driver Education	Summer	9, 10, 11, 12	0

Family & Consumer Science

Life Skills I	1	9, 10	1
Life Skills II	1	9, 10	1
Interior Design	1	9, 10, 11, 12	1
Child Development	1	10, 11, 12	1
Food & Nutrition	1	11, 12	1
*Culinary Arts	1	11, 12	1
Family Living	1	11, 12	1

Agricultural Education

Agriculture Ed. I	2	9, 10, 11, 12	2
Agriculture Ag. II	2	10, 11, 12	2
**Horticulture	1	9, 10, 11, 12	1
Landscape Design	1	9, 10, 11, 12	1
**Conservation	1	9, 10, 11, 12	1
Marketing	1	11, 12	1
Ag Bus Fin & Mgt.	1	11, 12	1
**Animal Science	1	11, 12	1
***Agricultural Comm	1	11, 12	1

<u>Course</u>	<u>Terms</u>	<u>Year</u>	<u>Credits</u>
<u>Industrial Arts</u>			
Home Improvement	1	9, 10, 11, 12	1
Drafting & Design	2	9, 10, 11, 12	2
*Architectural Drafting	2	10, 11, 12	2
Pre-engineering Design	1	10, 11, 12	1
Small Engine Repair	1	9, 10, 11	1
Auto Mechanics	1	10, 11, 12	2

Business Education

Gen Business	1	9, 10, 11, 12	1
Personal Finance	1	9, 10, 11, 12	1
Microsoft Apps	1	9, 10, 11, 12	1
Accounting I	2	10, 11, 12	2
*Accounting II	2 or 3	11, 12	2 or 3
*Information Mgt	1	10, 11, 12	1
*Web Design	1	10, 11, 12	1
*Multi-Media Apps	1	10, 11, 12	1
*Desktop Publishing	1	10, 11, 12	1
Info Technology	1	10, 11, 12	1

Guidance

Core Career Education	1	10, 11, 12	1
*Internship Program	1	12	2
Career and Curriculum Plan		9, 10, 11, 12	0
*Advanced Placement	3	11, 12	1
Peer Tutor	1	12—11 by perm	1

* Course requiring a prerequisite.

** These Agricultural courses can be used to satisfy Science elective credits

***Can be used to satisfy English elective credit.

LANGUAGE ARTS

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
REQUIRED	Language Lab** English 9 A English 9 B	Language Lab** *English 10 A Communication	*English 11 A *English 11 B	*English 12 A
ELECTIVES		*Public Speaking *Performance Lit	*Public Speaking *Performance Lit Agricultural Comm.	*English 12 B *Public Speaking *Performance Lit Agricultural Comm.
*Course requires a prerequisite **May be taken in place of English 9 two terms				

The study of English is basic to the learning of all other departments in our school. Eight credits in language arts are required of each Clarinda High School graduate. Students are encouraged to take at least two language arts courses each year.

English 9 (Required) *Terms: 2*
Grade Level: 9 *Prerequisite: None*

Description: The basics of language arts are covered in English 9 to help students develop skill in English/Language Arts. This course meets state and district standards in areas of reading, writing, listening, and speaking. Through the study of novels and other reading choices, major literary style techniques will be introduced to help develop critical thinking skills on all levels: knowledge, comprehension, evaluation, analysis, and synthesis.

English 10 (Required) *Terms: 2*
Grade Level: 10 *Prerequisite: English 9*

Description: English 10 Language Arts offers a balanced focus on composition and literature. This course meets state and district standards in the areas of reading, writing, listening, and speaking. Students learn about the alternate aims and audiences of written compositions and by writing persuasive, critical, and creative multi-paragraph essays and compositions. Through study of various genres of literature, students can improve reading rate and comprehension plus develop skills to determine the author's intent and theme.

English 11 *Terms: 2*
Grade Level: 11 *Prerequisite: English 10*

Description: English 11 continues to develop students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage. Students write essays and begin to learn the techniques of writing research papers. Students continue to read works of literature: emphasizing authors' literary conventions and stylistic devices.

English 12 *Terms: 2*
Grade Level: 12 *Prerequisite: English 11*

Description: English 12 blends composition and literature into a cohesive whole as students write critical and comparative analyses of selected literature, continuing to develop language arts skills. Typically, students primarily write multi-paragraph essays, but may also write one or more major research papers.

Reading Course

Language Lab *Terms: 2*

Grade Level: 9, 10
Prerequisite: Teacher recommendation
Description: This course is specifically designed to improve accelerate achievement in reading comprehension. Students will read books in class and independently to improve fluency, comprehension, vocabulary, and writing. Freshmen may take this course in place of two terms of English 9.

Speaking Courses

Communication (Required) *Terms: 1*
Grade Level: 10 *Prerequisite: English 9*

Limit: 20 students
Description: This course explores the three levels of communication: self-communication, communication with a small group, and communication with a large group. Activities and assignments offered to students are geared toward individual abilities. Short speech presentations will be presented by class members.

Public Speaking *Terms: 1*
Grade Level: 11,12 *Prerequisite: Communication*
Limit: 20 students

Description: This course is a further study of speaking begun in Communication, with the emphasis shifting to formal speech presentation. Students will also concentrate on thought organization skills, writing skills, and speech presentation techniques. Public Speaking class will also be introduced to formal debate.

Performance Literature *Terms: 1*
Grade Level: 10,11,12 *Prerequisite: Communication*
Limit: 20 students

Description: This course is the study and presentation of prose, poetry, and dramatic literature. Students will learn how to analyze literature and apply their findings to performing the literature. Students will work both independently and in groups. Students will also study improvisation as well as performing monologues and scenes from dramatic literature.

Writing Courses

Agricultural Communication (*may be used to satisfy either an agriculture or English elective*)

Terms: 1 *Grade Level: 11,12*
Prerequisite: None *Enrollment Limit: 16*

Description: This is a very practical, hands-on course in which students will gain valuable experience in communicating in the business world. Primary goal of the course is to help students communicate successfully through written and oral business messages that receivers can easily understand and react favorably. Topics in which students will gain experience are writing effective letters, memos, reports, and proposals and learning how to give proper oral reports to different audiences. Students will use computers extensively to create documents listed above and learn to write effectively for their future endeavors in the business world. It may satisfy either an agriculture or English elective credit

MATHEMATICS

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Pre-Algebra Algebra I Geometry* Algebra II*	Pre-Algebra Algebra I Geometry* Algebra II* Practical Math Pre-Calculus*	Algebra I Geometry* Algebra II* Practical Math Pre-Calculus* Calculus*	Algebra I Geometry* Algebra II* Practical Math Pre-Calculus* Calculus*
*Course requires a prerequisite			

Pre Algebra

Terms: 2

Grade Level: 9, 10

Prerequisite: None

Description: Pre algebra provides foundation for students to experience success in more advanced courses by reviewing basic math skills while introducing initial algebra concepts. Units include integers; equations and inequalities; rational numbers and proportions; functions, geometry and measurement; and data analysis. Students completing this course may advance to Algebra I.

Algebra I

Terms: 2

Grade Level: 9,10,11,12

Prerequisite: None

Description: This course is for those who need algebra to pursue a technical post high school program or college. Units include properties of real numbers; solving linear equations and inequalities; graphing linear equations and inequalities; exponents and exponential functions; polynomials and factoring. Algebra I is a prerequisite for geometry and other advanced math.

Geometry

Terms: 2

Grade Level: 9,10,11,12

Prerequisite: Algebra I

Description: Modern geometry helps the student understand the basic structure of mathematics, grow in understanding of the deductive method and in appreciation of the need for precision of language. This course gives knowledge of the methods of coordinate geometry and of the way in which algebra and geometry complement each other.

Algebra II

Terms: 2

Grade Level: 9,10,11,12

Prerequisite: Algebra I

Description: This course is an essential class for any student wishing to pursue a post-secondary education. The first half of the class will be geometry concepts, along with concepts introduced in Algebra I: quadratics, higher order polynomials, exponential & logarithmic functions. In the second half of the class, more advanced concepts include probability, statistics, sequences, series, and an introduction to trigonometry. This class is recommended for any student planning on attending any college or university.

Pre-Calculus

Terms: 2

Grade Level: 10, 11,12

Prerequisite: Algebra II

Description: The first trimester of this course will be spent studying different areas of pre calculus. These areas include exponential and logarithms, conic sections, sequences and series, probability and statistics. The second trimester will study trigonometry: right triangles, Law of Sines, Law of Cosines, graphing sinusoids, solving trigonometric equations, simplifying and verifying trigonometric equations, and studying the sum, difference, double, and half angle formulas. This class is suggested for anyone whose college major is going to require math or science classes.

Calculus

Terms: 2

Grade Level: 11, 12

Prerequisite: Pre-Calculus

Description: The first part of the class will be spent looking at that advanced components of pre calculus. After that we will begin to study the basics of calculus including limits, derivatives, Chain Rule, Product Rule, Quotient Rule, Riemann Sums, and definite and indefinite integrals. This class will give those students wishing to major in a math or science field a strong background for upper level math classes.

Practical Math

Terms: 2

Grade Level: 10, 11,12

Prerequisite: None

Description: This course will cover topics such as basic operations with whole numbers, fractions, mixed numbers, decimals, and percents; systems of measurement; signed numbers; exponents and square roots; and basic algebra. Relevant topics will include jobs, checking and savings accounts, credit, taxes, buying a car and house, investments, and probability.

SCIENCE

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
REQUIRED	Physical Science	Biology	Biology	Biology
ELECTIVES	Earth & Space	Earth & Space Ecology* Chemistry* Basic Anatomy* Fundamentals of Physics*	Earth & Space Ecology* Chemistry* Anatomy & Physiology* A&P Lab* Basic Anatomy* Fundamentals of Physics* Physics*	Earth & Space Ecology* Chemistry* Anatomy & Physiology* A&P Lab* Basic Anatomy* Fundamentals of Physics* Physics*
*Course requiring a prerequisite				

Physical Science (Required)

Terms: 2

Grade Level: 9

Prerequisite: None

Description: This course focuses on investigations in chemistry and physics. It is designed to give students basic knowledge in these two science disciplines and apply knowledge through the use of technology.

Biology (Required)

Terms: 2

Grade Level: 10,11,12

Prerequisite: None

Description: Biology is the study of living things. Focus in the course will include, but not limited to Ecosystems, Population Dynamics, Cell Structure/Function, Cell Growth and Division, Photosynthesis, Cellular Respiration, Mendelian Genetics, DNA and Genetic Engineering. Models, projects, labs and students presentations will be infused.

Earth and Space Science

Terms: 1

Grade level: 9, 10, 11,12

Prerequisite: None

Description: This course investigates how human needs are met by our biosphere and our interactions with it. Units include mineral compositions & formations, energy resources, plate tectonics, the geologic time, the solar system and beyond our solar system.

Ecology

Terms: 1

Grade level: 10, 11,12

Prerequisite: Biology

Description: This course will focus on the diversity of living things on the Earth and how those living things interact with non-living things. The impact of humans on land, water, and air quality are also covered. Major topics covered are land biomes, aquatic biomes and land/air/water resources.

Basic Anatomy

Terms: 1

Grade Level: 10, 11,12

Prerequisite: Biology

Description: This course consists of the study of the structure of the primary body systems. Units will include the anatomic names of human body parts of the skeletal, muscular, nervous, cardiovascular and digestive systems, as well as studying the integumentary system and the senses.

Anatomy and Physiology

Terms: 1 or 2

Grade Level: 11,12

Prerequisite: "B" in Biology or teacher recommendation

Description: This course consists of the study of function and structure of cells, tissues and body systems. Primary units include the anatomic names of human body parts, the support systems (skeletal, muscular and integument), the regulating functions (nervous and senses), the transportation and nourishing functions (cardiovascular and digestive) and how the human body obtains oxygen and maintains body fluids (respiratory and urinary). This course is targeted for student planning to pursue a career in nursing or other medical professions.

Anatomy and Physiology Laboratory (Articulated with Human Biology at IWCC)

Terms: 1

Grade Level: 11,12

Prerequisite: "C" or above in the first two terms of Anatomy & Physiology or teacher recommendation.

Description: This third term of anatomy and physiology will feature units on nervous and immune systems as they apply to nutrition, fitness, and wellness. Lengthy laboratory dissection of a fetal pig or other appropriate mammal is included. The dissection will enable students to review all organ systems. Additional activities provide specific examples of weightlifting exercises designed to develop overall fitness.

Fundamentals of Physics

Terms: 1

Grade Level: 10, 11,12

Prerequisite: Algebra 1

Enrollment Limit: 12

Description: This course integrates applied aspects of Mathematics, Physics. The course emphasizes laboratory hands-on learning combined with more traditional problem solving and textbook instructional strategies. The concepts studied are chosen for application in the "real world" of engineering and manufacturing. Students are expected to have finished a minimum of one year of science.

Chemistry

Terms: 2

Grade Level: 10, 11,12

Prerequisite: Algebra I

Description: Chemistry is the study of the structure and properties of matter. The following areas will be covered measurements, problem solving, scientific notation, chemical formulas and equations, the mole concept, the Periodic Table, atomic properties and structure, gas laws, acids and bases, with an introduction to organic and biochemistry.

Physics

Terms: 2

Grade Level: 11, 12

Prerequisite: Algebra II or consent of the instructor.

Description: This course consists of the study of the relation between matter and energy. The energies studied are mechanical, light, sound, heat and electricity. Emphasis is placed on problem solving, application of acquired math skills, and use of physics in technology.

SOCIAL STUDIES

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
REQUIRED	World History		American History	American History American Government
ELECTIVES	Geography	Geography Street Law Sociology Human Behavior	Geography Street Law Sociology Human Behavior Economics Current American History	Geography Street Law Sociology Human Behavior Economics Current American History

A wide variety of courses is offered by the Social Studies Department. All students are required to take two terms of World History, two terms of American History and one term of American Government. One elective is also required. Additional courses should be taken to complete a well-rounded social studies background.

World History (Required) *Terms: 2*
Grade Level: 9 *Prerequisite: None*

Description: This course will provide an overview of the history of human society from the southern Renaissance in Europe to the contemporary period. It will examine political, economic, social, religious, military, scientific, and cultural developments—including an overview of world geography in order to explore geographical concepts and the importance of geography. Students will explore the events, concepts, and relationships that began thousands of years ago that continue to have impact on contemporary life today.

Geography *Terms: 1*
Grade Level: 9,10,11,12 *Prerequisite: None*

Description: This course deals with the physical and human geography of countries. The study and application of the five themes of geography will be used as students explore different countries. Political, social, physical and economic relationships of different countries are researched and compared to other places around the world.

Street Law *Terms: 1*
Grade Level: 10,11,12 *Prerequisite: None*
Description: Street Law teaches students the workings of the US criminal and civil justice systems, including understanding of civil and criminal law and the legal process, the structure and procedures of courts, and the role of various legal or judicial agencies. It may also cover the history and foundation of US law (the Constitution, statutes, and precedents), including contemporary problems in criminal justice systems.

American History (Required) *Terms: 2*
Grade Level: 11,12 *Prerequisite: None*
Description: This course is the study of American history starting at the end of the American Civil War in 1865 with Reconstruction. The goal of this class is to explore the impact of history in social, political and economical changes that led to conflict and influenced the development of the United States today. Major time periods studied are Reconstruction, the Progressive Era, World War I, the 1920s, the Great Depression, World War II into the Vietnam Era.

Economics *Terms: 1*
Grade Level: 11,12 *Prerequisite: None*
Description: This course focuses on developing the student's notion of the forces that influence the production, distribution, exchange and consumption of goods and services. The basic principles and practices of economics are emphasized to enhance the student's comprehension of the free enterprise capitalistic economy of the United States. This course is suggested as being of value for students that plan to study business or economics in college.

Sociology *Terms: 1*
Grade Level: 10,11,12 *Prerequisite: None*
Description: The study of sociology provides students with the basic tools they need to develop a sociological imagination. The focus is on the individual, group, and society and the social processes that create them. The sociological imagination is the ability to see the connection between the larger world and our personal lives. The development of a sociological imagination enables the students to examine how society shapes human actions and beliefs, and how such actions and beliefs in turn shape society. The course will also focus on the formal organizations and social institutions of society.

Human Behavior *Terms: 1*
Grade Level: 10,11,12 *Prerequisite: None*
Description: This course covers the basic concepts of human behavior, including the development of personality, emotions, motivation, and perception. Students learn about the many influences that may affect human behavior. Students will examine results of important research and major theoretical concepts, and the students will learn about some of the people who have made significant contributions to the field of psychology. Within this course, students will be able to speak, write, and simply observe their own behavior and the behaviors of others around them in a more meaningful way.

Current Issues/American History *Terms: 1*
Grade Level: 11,12 *Prerequisite: None*
Description: This is a continuation of American History B combined with a look at current issues the United States faces today. Students will study places, people and events that impacted the history of the United States following WWII. Students will examine social, political and economic influences of the United States from both a historical and modern prospective. Sources outside class such as internet, print and television will be used to relate today to the past.

American Government (Required) *Terms: 1*
Grade Level: 12 *Prerequisite: None*
Description: American Government will engage the student in an examination of the principles of the American Constitution and evolution of American political thought. The structure and activities of government are also surveyed to help students become more aware of government in action. Students are challenged to develop their awareness of citizenship and participation in political activity.

FOREIGN LANGUAGE

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
ELECTIVE	Spanish I	Spanish I Spanish II*	Spanish I Spanish II* Spanish III*	Spanish I Spanish II* Spanish III* Spanish IV*
*Course requiring a prerequisite				

Spanish is offered to students in the foreign language area. Four years of Spanish are available for study.

Spanish I *Terms: 2*
Grade Level: 9,10,11,12 *Prerequisite: None*
Description: This course is designed to provide students with basic Spanish skills such as being able to provide personal information; ask for services or information, etc. Students will learn basic vocabulary and grammar, as well as, an overall knowledge of Spanish speaking countries. This course fulfills one year of college preparatory language requirement. A strong GPA (3.00 and above) is the best predictor for success in the study of foreign languages.

Spanish II *Terms: 2*
Grade Level: 10,11,12 *Prerequisite: Spanish I*
Description: This course is designed to provide a general knowledge of the Spanish language. Students will learn about past and future tenses. This will enable them to talk about past events and future plans. Student vocabulary and grammar skills will be enhanced. This course fulfills the second year of college preparatory language requirement. A minimum "C" grade average in Spanish I is recommended for enrolling in this course.

Spanish III *Terms: 2*
Grade Level: 11,12
Prerequisite: Spanish II and instructor recommendation
Description: This course is designed to improve the communication skills of students. Students will experience real life text and audiovisual material (application forms, newspapers, TV news, movies, etc.) they could expect to encounter in Spanish-speaking countries. Students will learn advance grammar, as well as, advanced knowledge of Spanish speaking countries.

Spanish IV *Terms: 2*
Grade Level: 12
Prerequisite: Spanish III and instructor recommendation
Description: This course is designed to master communication skills. Students will be challenged to maintain ongoing communication with Spanish people through pen pals or Skype. In addition, students will acquire advanced knowledge of Spanish-speaking cultures.

MUSIC

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
ELECTIVE	Band Mixed Choir	Band Flags Mixed Choir Adv. Studies in Music I Adv Studies in Music II	Band Flags Mixed Choir Adv. Studies in Music I Adv Studies in Music II	Band Flags Mixed Choir Adv. Studies in Music I Adv Studies in Music II

Band *Terms: 3*
Grade Level: 9,10,11,12
Prerequisite: Must have been in Middle School Band or Audition for Instructor
Description: Performing ensembles within band are Marching Band, Pep Band, & Concert Band. Performance opportunities include football half-time shows, marching band festivals, pep rallies & games, home concerts, and state music festivals. A student signing up for band must remain in band for the entire school year. Additional performance opportunities are All-State Band, District Honor Band, State Solo/Small Ensemble, and Jazz Band. Jazz Band meets before school starting after the marching season and is selected on an audition basis.

Flags *Terms: 1*
Grade Level: 10,11,12 *Prerequisite: audition only*
Description: The Flag Corps is an auxiliary rank of the marching band. This group is not exclusively chosen from band students but open to any student. If selected, the student must list "Band" on the first term column of the sign-up sheet. Members of the Flag Corps perform with the marching band at football half-time shows and marching band festivals.

Mixed Choir *Terms: 2 or 3*
Grade Level: 9, 10, 11, 12 *Prerequisite: None*
Description: Mixed Choir is open to any high school student who enjoys singing and wishes to expand knowledge of choral music. A variety of music is sung, choral techniques are developed, and sight-singing skills are fine-tuned. No

audition is necessary for the ensemble. Concerts are performed throughout the school year. Additional performance opportunities include All-State Choir, Opus Honor Choir (9th), Honor Choirs, Solo/Ensemble Contest, National Anthem performances and Large Group Contest.

Advanced Studies in Music I (Theory emphasis)
Terms: 1 *Grade Level: 10,11,12*
Prerequisite: Enrollment in choir or band
Description: This course is designed to give music students an in depth study in music theory. Instruction will be split between intensive performance study and class work in music theory. The class work portion will include written theory, voice training, and ear training.

Advanced Studies in Music II (History emphasis)
Terms: 1 *Grade Level: 10,11,12*
Prerequisite: Enrollment in choir or band
Description: This course is designed to give music students an in depth study in music history. Students are encouraged to take Advanced Studies of Music I prior to the enrollment of this course. Instruction will be split between intensive class work portion will include independent reading, ear training and music history.

VISUAL FINE ARTS

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
ELECTIVE	Intro to Art I Intro to Art II Drawing*	Intro to Art I Intro to Art II Drawing* Painting* Three Dimensional Art*	Intro to Art I Intro to Art II Drawing* Painting* Three Dimensional Art* Photography	Intro to Art I Intro to Art II Drawing* Painting* Three Dimensional Art* Photography Art Portfolio*
*Course requiring a prerequisite				

A student's course of study in visual arts may be designed to follow a studio avenue or a design avenue. Many art students may wish to follow both avenues simultaneously. The studio avenue involves taking Introduction to Art I and II, Drawing, Painting, and A.P. Art Portfolio. The design avenue offers Introduction to Art I & II, Photography, Three-Dimensional Design, and A.P. Portfolio.

Introduction to Art I *Terms: 1*
Grade Level: 9,10,11,12 *Prerequisite: None*
Enrollment Limit: 20

Description: This is an introductory course in the visual arts that has been designed for students of all artistic ability levels who enjoy drawing and learning about art. In this course, students will learn about communicating through images and designs, about creative problem solving in art and developing better drawing and shading techniques. Students will be introduced to different mediums such as pencil, colored pencil, ink & watercolor.

Introduction to Art II *Terms: 1*
Grade Level: 9,10,11,12 *Prerequisite: None*
Enrollment Limit: 15

Description: This is an introductory course in visual arts that has been designed for students of all artistic ability levels who enjoy printmaking and working with clay. Students will learn

about communicating through images and designs. The student will also deal with creative problem solving techniques and ideas. Students will be introduced to different mediums such as: ink and clay.

Drawing *Terms: 1*
Grade Level: 9,10,11,12 *Prerequisite: Intro to Art I*
Enrollment Limit: 20

Description: In Drawing, students will learn and refine basic drawing techniques such as shading, creating the illusion of depth, etc. During the term, there will be an emphasis on drawing the human figure, animals, landscapes and various still lives. Students will concentrate on improving their drawing and shading techniques along with learning the value of color through the use of color pencils and oil pastels.

Painting *Terms: 1*
Grade Level: 10,11,12 *Prerequisite: Intro to Art I*
Enrollment Limit: 15

Description: This course is designed to explore the world of painting in greater depth. Students will refine their sketching techniques and work with tempera paint, acrylic and watercolors.

Three-Dimensional Art *Terms: 1*
Grade Level: 10,11,12 *Prerequisite: Intro to Art II*
Enrollment Limit: 15

Description: This course will be concerned with both the structural and the artistic sides of building art in three-dimensions. Using a variety of materials such as Paper Mache, wire, metal and clay, students will be presented with creative sculptural problems to solve.

Photography *Terms: 1*
Grade Level: 11,12 *Prerequisite: None*
Enrollment Limit: 12

Description: This course is an introduction to black and white photography and computer graphics. Students will learn to process film and print photographs with technical proficiency, as well as, develop a sense of photographic creativity. Students will use the digital camera and learn how to manipulate a photograph taken with the digital camera. **This course has a lot of assignments that require time outside the school day. Students will need to have access to a working digital camera of their own.**

Art Portfolio *Terms: 1, 2 or 3*
Grade Level: 12

Prerequisite: Introduction to Art I, II, 2 advanced courses, and teacher permission

Description: This course is designed for students who are motivated to pursue their own art interests. During each term, students will have designated drawing times for drawing skill development, service projects which benefit the art program and the school, and the opportunity to follow their own studio interests. Each student will be expected to buy his/her own supplies if the school does not have desired materials on hand

DRAMA

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
ELECTIVE		Intro to Theatre Stagecraft	Intro to Theatre Stagecraft	Intro to Theatre Stagecraft
Course requiring a prerequisite			Performance Lit	Performance Lit*

Introduction to Theatre

Terms: 1

Grade Level: 10, 11,12

Prerequisite: None

Enrollment Limit: 20

Description: Introduction to Theatre will explore a wide variety of elements of theatre--everything from improvisation to literature to lighting to promotion. The class will work as individuals and as team members to study various periods of theatre history, developments of theatre technology, acting styles, and playwrights. Students should also be prepared to research and write short papers about theatre topics.

Stagecraft

Terms: 1

Grade Level: 10, 11,12

Prerequisite: None

Enrollment Limit: 20

Description: This course is designed to cover the fundamentals of technical theatre. The course introduces students to stage terminology, equipment, and basic construction methods. The course requires students to work on actual production situations. The class will maintain the stage and scene shop. They will also be used to service groups that use the auditorium. Hours of work beyond class time are also required.

Performance Literature

Terms: 1

Grade Level: 11,12

Prerequisite: Communication

Enrollment Limit: 20

Description: This course is the study and presentation of prose, poetry, and dramatic literature. Students will learn how to analyze literature and apply their findings to performing the literature. Students will work both independently and in groups. Students will also study improvisation as well as performing monologues and scenes from dramatic literature.

PHYSICAL EDUCATION

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Physical Education Advanced Fitness	Physical Education Advanced Fitness	Physical Education Advanced Fitness	Physical Education Advanced Fitness

Physical Education is required of all students. All high school physical education courses will be coeducational. Course goals are the following: To assist each student in attaining their best level of health related fitness, To assist each student in developing and exhibiting positive attitudes, which will allow the student to accept differences in others and lend encouragement to all, To educate all students of the basic skills, rules, and strategies involved in a variety of activities, To encourage all students to fully participate in all activities and demonstrate improvement, and to influence each student to incorporate some type of physical fitness activity throughout his/her life.

Physical Education

Terms: Every

Grade Level: 9,10,11,12

Description: The focus will be primarily on team and individual sport/activities. The following is a list of activities that may be covered throughout the year: team sports, individual/dual sports, recreational sports, and fitness/conditioning activities. In addition to these, activities will include agility, speed and plyometric drills.

Advanced Fitness P.E.

Terms: 1

Grade Level: 9,10,11,12

Description: The advanced P.E. class is geared towards incorporating a more in depth understanding of personal fitness. Several aspects of fitness will be covered with an emphasis on weight training and cardiovascular endurance. Plyometric activities will also be covered during the class. Students will set goals and have personal fitness prescriptions to follow for the duration of the class.

HEALTH & SAFETY

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
REQUIRED	Health I	Health I	Health I	Health I
ELECTIVE	Driver Education	Health II Driver Education	Health II Driver Education	Health II Driver Education

Health I (Required) *Terms: 1*
Grade Level: 9,10,11,12 *Prerequisite: None*
Description: Units in this course include: Health & Wellness, Responsible Decisions, Physical Fitness, Nutrition, Infectious & Chronic Diseases, Sexually Transmitted Diseases, Alcohol, Tobacco, & Drugs. This course meets the Health requirement for graduation and aligns with National Health Standards.

Health II *Terms: 1*
Grade Level: 10, 11,12 *Prerequisite: None*
Description: Units covered in this course include Mental and Emotional Health, Self-Esteem, Managing Stress, Coping with Loss, Preventing Suicide, Methods of Relaxation, Defense Mechanisms, and Careers in Health.

Driver Education *Term: Summer*
Grade Level: 9,10,11,12
Prerequisite: Must have valid Driving Permit, preference given to oldest students enrolled.
Description: Driver Education will be offered in the summer for approximately 80 students. There will be a sign-up period held sometime during the second semester for the Summer Driver Education class.

FAMILY AND CONSUMER SCIENCE COURSES

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
ELECTIVE	Life Skills I Life Skills II Interior Design	Life Skills I Life Skills II Interior Design Child Development	Interior Design Child Development Food & Nutrition Culinary Arts* Family Living	Interior Design Child Development Food & Nutrition Culinary Arts* Family Living
*Course requiring a prerequisite				

Life Skills I *Terms: 1*
Grade Level: 9,10 *Prerequisite: None*
Description: This is an introductory Family & Consumer course that teaches practical subject matter that helps students to learn basic life skills and make wise decisions. It will cover information on self-discovery, relationships, food preparation and nutrition. There will be subject matter in this course covering sexual decision-making and birth control.

Interior Design *Terms: 1*
Grade Level: 9,10,11,12 *Prerequisite: None*
Description: This course enables creativity exploration in the field of interior design. Identification of the elements and principles of design are emphasized. Other topics included are housing choices, floor plans and careers. Projects are integrated throughout the course to provide applications as students study: architecture, furniture styles and construction, surface treatments and backgrounds, design and function of space. There will be a creative stitchery or sewing project (students can make something to be used at home).

Life Skills II *Terms: 1*
Grade Level: 9,10 *Prerequisite: None*
Description: The second course in sequence of introductory Family & Consumer Science classes. It will cover information on clothing care and construction, child development and parenting, resource management, and life choices.

Child Development (Articulated) *Terms: 1*
Grade Level: 10,11,12 *Prerequisite: None*
Enrollment Limit: 16
Description: This course involves the study of pregnancy, infant care, toddlerhood, preschool years, and development and parenting of the child.

Foods & Nutrition *Terms: 1*
Grade Level: 11,12 *Prerequisite: None*
Enrollment Limit: 16
Description: This course will cover basic nutrition and application of basic principles of food selection and preparation. Basic cooking principles and cooking practices for specific foods; such as vegetables, fruits, eggs, milk, breads pastry and protein foods will be covered. Students will develop a cooking foundation.

Culinary Arts *Terms: 1*
Grade Level: 11,12 *Prerequisite: Foods & Nutrition*
Enrollment Limit: 16
Description: The student will be trained in career opportunities in the food service / culinary arts industry. Students will have opportunity to learn and practice safety and sanitation procedures, use equipment, and learn culinary math skills. They will do food preparation as it relates to catering, bakery, hospitality, and nutritious menus.

Family Living *Terms: 1*
Grade Level: 11, 12 *Prerequisite: None*
Enrollment Limit: 16
Description: This course for both male and female students deals with self-understanding, setting and attaining goals, preparation for marriage, maintaining a successful & meaningful marriage relationship, death, divorce, & other family crises. There is subject matter in this course dealing with sexual decision-making & birth control.

AGRICULTURE EDUCATION

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
ELECTIVE	Agriculture Education I	Agriculture Education I Agriculture Education II	Agriculture Education I Agriculture Education II	Agriculture Education I Agriculture Education II
	Horticulture** Landscape Design Conservation**	Horticulture** Landscape Design Conservation**	Horticulture** Landscape Design Conservation** Marketing Ag Bus Finance & Mgt Animal Science** Agricultural Comm.*	Horticulture** Landscape Design Conservation** Marketing Ag Bus Finance & Mgt Animal Science** Agricultural Comm.*
*May be used as an English elective credit **May be used as a Science elective credit				

Agricultural Education I Terms: 2
Grade Level: 9,10,11,12 Prerequisite: None

Description: This course surveys a wide array of topics within the agricultural industry, and students with no agricultural background will find areas of interest in this course offering. Students will be exposed to the many careers in agriculture and will study the food and fiber system -- its history and social/environmental impact on our state and world. International agriculture will be a focus, as students will examine a wide variety of animals and crops found throughout the world. Students will also study animal husbandry areas that make up the U.S. agricultural sector and will learn about the production and management of livestock. Other topics studied in this course include an introduction to the FFA and SAE, leadership abilities and how to conduct meetings, basic record keeping skills, and basic woodworking skills. The use of computers and the Internet will be an effective resource for students in Ag. Ed. I. Students will be introduced to how science is integrated into agriculture through labs and other activities from the CASE curriculum.

Agricultural Education II Terms: 2
Grade Level: 10,11,12 Prerequisite: Ag. Ed. I

Description: This course involves the study of biological concepts and principals of plant growth and development. Topics include the importance of plants to the environment, plant classifications, functioning parts of the plant, and the importance of plant physiology in growth and development. Students will examine the practices in U.S. and world plant production and identify their importance as a food source for a growing world population. Students will take an in-depth look at the life cycle of plants and plant classification and will gain valuable hands-on experience by working with each

other in small groups collecting and identifying plants throughout the area. Ag. Ed. II students will also work with each other in examining current issues in agriculture and discussing and debating these issues with one another. Students will be introduced to how science is integrated into agriculture through labs and other activities from the CASE curriculum.

Horticulture (Can be used to satisfy a Science elective)

Terms: 1 Grade Level: 9,10,11,12
Prerequisite: None Enrollment Limit: 18

Description: Horticulture students will be engaged in learning many different practices and procedures in the horticulture industry. An overview of horticulture and plant science concepts will begin the course, followed by hands-on activities which include seed germination, taking cuttings and propagating them, transplanting, grafting tree branches, and pruning trees. Nursery management principals will be discussed, along with the choice of horticulture careers in the business world today. Students will be introduced to how science is integrated into agriculture through labs and other activities from the CASE curriculum.

Landscape Design Terms: 1

Grade Level: 9,10,11,12 Prerequisite: None

Description: Landscape Design students will begin a study on landscaping and will utilize a computer program to perform their own landscape designs. Students will also look into the increasingly popular area of turf and lawn grass management and discover the importance of these areas of study to home and recreational horticulture. Other areas of interest in which students will gain an understanding and receive hands-on experience are xeriscaping, interior landscaping, and floriculture.

Conservation and Natural Resource

(Can be used to satisfy a Science elective)

Terms: 1 Grade Level: 9,10,11,12
Prerequisites: None Enrollment Limit: 18

Description: This course will engage students in the study of conservation practices throughout Iowa and the U.S. and the study of natural resources in the U.S. and the world. Students will gain an understanding of the importance of soil science and its properties and functions by taking soil samples and judging soil. Students will also be exposed to the topic of wildlife management as well as water quality and watershed issues. Students will also learn about meteorology and identify weather patterns such as tornadoes, hurricanes, and drought and will discuss the impact these have on agriculture in Iowa and the world. Another area of study will be tree identification and physiology, in which students will study how trees can protect wildlife and land, clean our air and streams, and impact our nation's energy needs. Students will be introduced to how science is integrated into agriculture through labs and other activities from the CASE curriculum.

Animal Science (Articulated)

(Can be used to satisfy a Science elective)

Terms: 1 Grade Level: 11,12
Prerequisite: None Enrollment Limit: 18

Description: Students enrolled in this course will gain a broad knowledge of the care and management of livestock, pets, and other domesticated animals. Topics introduced will include animal nutrition, health, reproduction, and processing. Students will receive instruction in the different breeds of livestock to gain a better understanding of the history and different characteristics of animals, as well as gaining experience in selecting livestock. This course will cover topics for students interested in veterinary science, zoology, animal care taking, farming, or other careers involving the care and management of animals.

Marketing

Grade Level: 11,12 Terms: 1
Enrollment Limit: 18 Prerequisite: None

Description: Any student who plans to enter the world of business will benefit. Students entering careers such as banking, business, economics, and marketing will develop an understanding of U.S. and world production, specialization and trade, U.S. and world markets, and the principals of supply and demand. An overview of marketing concepts, activities, & principals will be studied, along with commodity marketing and pricing strategies. Students will be involved in giving sales presentations and will also develop marketing strategies of their own in order to gain valuable experience in organizing their marketing activities.

Agribusiness Finance and Management*Terms:* 1 *Grade Level:* 11,12*Prerequisite:* None *Enrollment Limit:* 18

Description: This course is a broad introduction to many business topics that will better prepare students for their future studies in the business areas. Instruction will cover such areas as financial and net worth statements, determining asset values, cash flow statements, profit and loss statements, budget analysis, and risk management. Students will gain an understanding of how banks look at businesses to evaluate their profitability and how to

adequately prepare financial reports. Topics also include estate planning, wills and life insurance. Small group sessions will aid in learning about the important concepts in the world of credit.

Agricultural Communication*(Can be used to satisfy an English elective)**Terms:* 1 *Grade Level:* 11,12*Prerequisite:* None *Enrollment Limit:* 18

Description: This is a very practical, hands-on course in which students will gain valuable experience in

communicating in the business world. The primary goal of the course is to help students communicate successfully through written and oral business messages that receivers can easily understand and to which they will react favorably. Topics in which students will gain experience are writing effective letters, memos, reports, and proposals and learning how to give proper oral reports to different audiences. Students will use computers extensively to create the documents listed above and learn to write effectively for their future endeavors in the business world.

INDUSTRIAL EDUCATION COURSE

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
ELECTIVE	Home Improvement Drafting & Design Small Engine Repair	Home Improvement Drafting & Design Small Engine Repair Architectural Drafting* Pre-engineering Design	Home Improvement Drafting & Design Small Engine Repair Architectural Drafting* Pre-engineering Design	Home Improvement Drafting & Design Small Engine Repair Architectural Drafting* Pre-engineering Design
*Requires a prerequisite		Auto Mechanics	Auto Mechanics	Auto Mechanics

Home Improvement*Terms:* 1*Grade Level:* 9,10, 11, 12*Prerequisite:* None*Enrollment* 14

Description: This class in an introductory course into the construction trades or home improvement. This is a "hands on" course, which will study how to lay out a structure, create stud walls, house wire, plumbing, sheet rock, shingle, finish walls and floors. Students will be paired to create a small functioning home unit.

Drafting & Design (Articulated)*Terms:* 2*Grade Level:* 9,10,11,12*Prerequisite:* None*Enrollment Limit:* 15

Description: This class will learn how to make drawings on a computer. They will learn everything from sketching a drawing to making a three-dimensional drawing. Areas to be covered are Drafting Scales, Multi-view Drawings, AutoCAD Software and Dimensioning Techniques. Articulation credits are available through Iowa Western Community College.

Architectural Drafting (Articulated)*Terms:* 2*Grade Level:* 10,11,12*Enrollment Limit:* 15*Prerequisite:* Drafting & Design

Description: This course is designed to give students an opportunity to develop skills in drafting using a state of the art C.A.D. system. This course is for the student considering a career in the area of Architecture, Engineering, Interior Design, Education, Mechanical Design, etc. Students will review how to use the Auto CAD software and will learn about auxiliary and sectional drawings. Main emphasis will be on architectural design, creating a complete set of three dimensional house plans. Articulated with Iowa Western Community College.

Pre-engineering Design (Articulated)*Terms:* 1*Grade Level:* 10, 11,12*Enrollment Limit:* 15*Prerequisite:* None

Description: Students in this one term course will create 3D solid modeling (objects three-dimensional that will look exactly like the original object). Created parts can be assembled to create a working component. These parts can be tested for structural strength on the computer. Students will create 3D models of development and intersection designs. Students will also create a new design of marketable object. Articulated with Iowa Western Community College.

Small Engine Repair*Terms:* 1*Grade Level:* 9,10,11*Prerequisite:* None*Enrollment Limit:* 15

Description: This class is an introductory class into the power and auto mechanics field. A small engine will be torn down and completely overhauled into a reusable engine. Areas covered will be: Safety, Tools, Four- and Two-Stroke Engines, Ignition Systems, Parts, Precision Measuring Tools, and Compression Systems.

Auto Mechanics*Terms:* 1*Grade Level:* 9, 10,11,12*Prerequisite:* None*Enrollment Limit:* 12

Description: (Meets for two class periods every day for a trimester) This class will cover the automobile systems from bumper to bumper. It is designed to give an overview of the car for consumer awareness, for home handyman care, and as a foundation to a career as an auto mechanic. Units covered will be Engine and Drive-train systems, Brakes, Steering, Fuel Systems, Electrical Systems, Lubrication and Cooling Systems, Tires and Suspension, Buying Used Cars, and Auto Body Work. Recommend having access to a personal vehicle to enhance the lab experience.

BUSINESS EDUCATION COURSE

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
ELECTIVE	General Business Personal Finance Microsoft Applications	General Business Personal Finance Microsoft Applications Accounting I Info Management* Web Design* Multi-Media Apps* Desktop Publishing*	General Business Personal Finance Microsoft Applications Accounting I Accounting II* Info Management* Web Design* Multi-Media Apps* Desktop Publishing* Info Technology	General Business Personal Finance Microsoft Applications Accounting I Accounting II* Info Management* Web Design* Multi-Media Apps* Desktop Publishing* Info Technology
	*Course requiring a prerequisite			

The student planning to enter a business career or major in business in college would benefit from General Business, Personal Finance, Microsoft Applications, Information Management and Accounting I & II. All students would benefit from Microsoft Office, General Business, and Personal Finance.

General Business (Business I) *Terms: 1*
Grade Level: 9, 10, 11, 12 *Prerequisite: None*
Description: This course offers a variety of units on business concepts and skills that everyone must learn to function in today's society. It is suggested that future accounting students enroll in this course to give them a better business foundation. Topics include:

- ⇒ Basic Economics—(needs and wants) (supply and demand) (recession and recovery)
- ⇒ Ethics and Social Responsibility—doing the right thing (businesses and individuals)
- ⇒ Foreign Trade—imports, exports, foreign currency (international business)
- ⇒ Business Types and Ownerships—sole owners, partnerships, corporations (stock market)
- ⇒ Government—USDA, EPA, FDIC, etc. (Prepare a 1040EZ tax return)
- ⇒ Online Banking—complete a banking packet and understanding identity theft

Personal Finance (Business II) *Terms: 1*
Grade Level: 9, 10, 11, 12
Prerequisite: (General Business is suggested)
Description: This course will continue units started in General Business, which will help students become wise consumers. It is suggested that future accounting students enroll in this course to give them a better business foundation. Topics include:

- ⇒ Marketing—consumer products & activities
- ⇒ Technology—understanding computer systems
- ⇒ Payroll—your paycheck and the tax deductions and benefits
- ⇒ Risks and Insurance—car, health, property, liability and life—premiums and claims, etc.
- ⇒ Money Management—budgeting money
- ⇒ Budgeting—complete a budgeting packet
- ⇒ Banking—banking services and debit cards, checking accounts
- ⇒ Consumer Credit—use of credit cards and interest
- ⇒ Investments—explore different types of investments (Stock Market)

Microsoft Applications *Terms: 1*
Grade Level: 9, 10, 11, 12
Description: This course will develop competencies in the advanced feature of word processing using the following: Microsoft Word software, spreadsheet using Excel, Open Office, Google Docs, and PowerPoint. There is a focus on using the tools and elements of the program.

Accounting I

Terms: 2 *Grade Level: 10, 11, 12*
Prerequisite: A "C" or better in General Business, Personal Finance, or teachers' permission.
Description: Accounting I is designed to provide the student with necessary fundamental principles needed to keep systematic & accurate financial records. Accounting covers complete accounting cycles of sole proprietorships, partnerships and corporations. Accounting 1 is recommended for the college bound student. Practical simulations are offered that will give first hand experience on how accounting actually works in a business situation. Daily homework will be assigned. May be taken in grade 10 with teacher permission.

Accounting II (College Credit Available)

Terms: 2 or 3 *Grade Level: 11, 12*
Prerequisite: Accounting I
Description: Accounting II is a full year course which continues the theories learned in Accounting I. This course is designed for the student specifically interested in a business career. It is highly recommended for the student planning to major in business in college. The course includes 20 chapters & 3 packets. Computerized accounting applications will be infused during third trimester. Daily homework will be assigned.

Information Management

Terms: 1 *Grade Level: 10, 11, 12*
Prerequisite: Microsoft Applications
Description: This course is intended to enhance competencies in the use of spreadsheet and database programs to better manage information. Skills taught include the creation of spreadsheets and databases, calculations, creating charts and graphs, layouts, reports, and searches.

Web Design

Terms: 1 *Grade Level: 10, 11, 12*
Prerequisites: Microsoft Applications, Desktop Publishing
Description: This course uses the Adobe Dreamweaver program to introduce the area of web page design. Students learn to create different styles of sites and use different elements to make their sites more efficient

Multimedia Applications*Terms. 1**Grade Level.* 10, 11,12*Prerequisites.* Microsoft Applications

Description. This is an advanced computers course that explores multimedia programs and their applications. Units include: multimedia presentations; video and digital image editing; desktop skills and computer terminology. Students will learn how to use digital and video cameras, and scanners in these units. Students will be expected to create movies from raw footage as well as Power Point presentations and develop projects for inclusion in the school web site. Students entering this course will need to have a solid grasp of word processing skills

Desktop Publishing*Terms. 1**Grade Level.* 10, 11,12*Prerequisites.* Microsoft Applications

Description. This class will challenge students to create projects published from various applications. Both the technical & artistic layouts of work to be viewed by public are explored. Student work will be displayed.

Information Technology*Terms. 1**Grade Level.* 10, 11,12*Prerequisites.* Microsoft Applications

Description. Students will develop the necessary skills to code and program websites, games and robots using problem-solving skills to complete projects and assignments. Additional topics include exploration of current trends in technology, selecting equipment to purchase, and computer security topics, while possibly having community members speak about technology in the workplace and issues that arise.

GUIDANCE

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Career and Curriculum Plan	Career and Curriculum Plan Core Career Education Advanced Placement*	Career and Curriculum Plan Core Career Education Advanced Placement*	Career and Curriculum Plan Core Career Education Advanced Placement* Peer Tutor Internship Program*
*Course requiring a prerequisite			

Core Career Education*Terms:* 1*Grade Level.* 10, 11,12*Prerequisite.* None

Description. This course is designed to provide students a basic background in the areas of getting and keeping a job. Development of workplace maturity skills, leadership skills, interviewing skills, interpersonal skills, & communication skills are key elements of this course. Students will examine their unique personal traits and review them in relation to various occupations, study job requirements, fill out applications, and complete a personal resume.

Internship Program*Terms.* 1*Grade Level.* 12

Prerequisite. A sequence of courses that have focused on a specific career pathway.

Description. This experience gives students the opportunity to receive on-the-job training at one or more work sites on a non-paid basis. The focus is on long-term training. Students may earn up to two credits per term. Work sites are secured and monitored by the Internship Coordinator(s). Work evaluations are completed. The Coordinator will meet weekly with students to review performance.

Career and Curriculum Plan*Term.* Ongoing*Grade Level.* 9, 10, 11, 12

Description. This class allows students to create an electronic portfolio designed to fulfill state requirements. To meet these requirements, students will complete assessments and surveys, career research, course plan building, education linkages, and financial aid and career development activities that assist students in their future. These activities are developmentally appropriate for the grade level of the students. Students can revise their career and educational plans as they mature and learn more about themselves and their interests and abilities. New components of the Career and Curriculum Plan will be introduced each year and existing entries will be reviewed and revised annually as part of units taught through:

9th grade	English 9
10th grade	Communications / English 10
11th grade	American History
12th grade	American Government

Peer Tutor*Term.* 1*Grade Level.* 12 (11 grade--instructor permission)

Description. This course is designed to provide students an opportunity to help their peers academically. Students enrolling in this class need to be willing to help their peers and feel comfortable helping in the core subject areas of English, mathematics, history and science. This class does not count toward the GPA, but students do receive a credit toward graduation.

SENIOR YEAR PLUS

Senior Year Plus Legislation Highlights and Guidelines

SENIOR YEAR PLUS OPTION: Enacted by the legislature in 2008, Senior Year Plus was created to provide increased and more equal access to college credit and advancement placement courses. Courses delivered through Senior Year Plus provide students the opportunity to take a rigorous college curriculum and receive, in many cases, both high school and college credit concurrently.

Any student interested in a Senior Year Plus enrollment option should make application in writing to the school through the counselor or principal before enrolling. Authorization for approval of courses, institution, credit, and payment for courses must be obtained from the Board of Education in advance of the pursuance of concurrent enrollment options or the district assumes no responsibility or obligation.

For Senior Year Plus options approved in advance by the Board of Education, the district shall pay a tuition reimbursement amount to an eligible post-secondary institution that has enrolled its resident eligible pupils as prescribed by law.

If a student drops after the official date stated by the high school (September 1 or January 20 of said term), the student will be assigned a grade of "F" for that course and appear on the high school transcript as such. The grade may not be reflected on the college transcript, however. All courses taken through Senior Year Plus at school expense or as part of a student's minimum course load will be added to the student's high school transcript and grades earned will be used when calculating high school GPA and class rank.

Any parent or student desiring more information or application forms about Senior Year Plus should contact the counselor or principal. Rules written by Department of Education for guidance on November 11, 2009 and issued to community colleges, superintendents and via the Department of Education website. www.iowa.gov/educate. Click on Senior Year Plus link on left side and you will be taken to several PDF documents of the rules.

Important Points

- New Terminology: Dual enrollment, concurrent enrollment
- Student eligibility: must meet criteria of institution including test scores and course prerequisites. In order to participate in the program, student must have demonstrated proficiency in reading, math & science as

evidenced by achievement scores on Iowa Assessments. IF the student is not proficient in one or more of the content areas, the school board may establish alternative but equivalent qualifying performance measures. These may include, but are not limited to, portfolios of student work, student performance rubric, or end of course assessments. This may include additional placement testing such as ASSET, COMPASS, or ACT.

- The instructor shall meet the standards and requirements set forth with other full-time instructors teaching within the academic department are required to meet and which are approved by the appropriate post-secondary administration.
- Instructors may not be under suspension or revocation of license and must have passed a background check.
- Information on the program shall be made available to all students and parents.
- Participation in the courses is open to all qualified 9-12 graders. Institutions shall not place restrictions on participation in Senior Year Plus programming beyond that, which is specified in statute or administrative rule. For example: a school district may not require a student to exhaust the school district curriculum prior to enrollment in SYP courses, may not limit students to enrollment in only one course per semester, may not place additional restrictions beyond institutional requirements (i.e. GPA minimums) and may not limit courses be taken only during a certain time of day.
- Students may not be enrolled full time in any one institution for SYP programming. Full time is defined as 24 or more credits in one academic year, not including summer term.
- SYP courses cannot be used to supplant high school courses (see page 25 Accreditation Standards). CTE concurrent enrollment courses can be used as part of the offer & teach sequence, but if so, they are not eligible for supplemental weighting.

***Note to students and parents: When registering for an IWCC course in any of these program options, the student is taking a college course. This means he/she is beginning or adding to a college transcript. Low or failing grades can result in reimbursement to the high school for tuition and could affect future financial aid eligibility, athletic eligibility, G.P.A., and/or class rank.**

College Academy

Clarinda High School and Iowa Western Community College have entered into an agreement that would allow qualified high school students to attend IWCC half days (12:00 to 3:00 PM) during their school year. Students would enroll in basic courses from the areas of Math, Science, Social Science, and English. These courses are likely to transfer, satisfying “general education” requirements at most colleges. Students may take up to 24 credit hours each academic year. To participate:

1. Students must be proficient according to Iowa Assessments scores in Reading, Math, and Science
2. Students must be enrolled in a combination (H.S. and IWCC) of 5 courses each trimester.
3. Students are responsible for purchasing textbooks.
4. Students are responsible for transportation.
5. Student must pay a registration fee to IWCC.

<u>Course Offering</u>	<u>Semester</u>	<u>Prerequisite</u>
American Film	1	
American History to 1877	1	
Introduction to Psychology	1	
Western Civilization to 1650	1	
Pre calculus	1	
Statistics	1	
English Composition I	1	
Public Speaking	1	HS Public Speaking
General Biology I	1	
Human Biology	1	
American History since 1877	2	
Intro to Sociology	2	HS Sociology
Developmental Psychology	2	
Western Civilization from 1650	2	
Finite Math	2	
English Composition II	2	English Composition I (IWCC)
Multicultural Literature	2	
Anatomy & Physiology	2	General Biology I (IWCC) or Human Biology (IWCC)
Welding	2	

***Note to students and parents: Remember when registering for an IWCC course in any of these program options, the student is taking a college course. This means they are beginning or adding to a college transcript. Low or failing grades can result in reimbursement to the high school for tuition and could affect future financial aid eligibility, athletic eligibility, G.P.A., and/or class rank.**

Iowa Online Advanced Placement Academy

Clarinda High School provides students an opportunity to take advanced placement courses online through Apex Learning. Students can choose from the following courses:

AP Calculus AB	AP Calculus BC
AP Chemistry	AP US Government and Politics
AP Physics 1	AP Physics 2
AP U.S. History	AP Biology
AP Microeconomics	AP Macroeconomics
AP English Language and Composition	AP Statistics
AP English Literature and Composition	AP Psychology
AP Spanish	AP Computers

Each course has a series of prerequisites students must complete before being eligible to enroll. Students participating in is program receive high school credit and have an opportunity to take a national AP exam in the spring. Student scoring 3 or higher, on a scale of 1 to 5, may be awarded college credit from the college that he/she attends.

Calculus AB Terms. 2 semesters

Prerequisite. Algebra II, Geometry, and Pre-Calculus

Description. The students learn to understand change geometrically and visually (by studying graphs of curves), analytically (by studying and working with mathematical formulas), numerically (by seeing patterns in sets of numbers), and verbally. Instead of simply getting the right answer, students learn to evaluate the soundness of proposed solutions and to apply mathematical reasoning to real-world models. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena.

Calculus BC Terms: 2 semesters

Prerequisite: Calculus AB

Description: The course is roughly equivalent to both first and second semester college calculus courses and extends the content learned in AB to different types of equations and introduces the topic of sequences and series. The AP course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations.

Chemistry Terms. 2 semesters

Prerequisite. Chemistry, Algebra II

Description. This course builds students' understanding of the nature and reactivity of matter. After studying chemical reactions and electrochemistry, students move on to understand how the chemical and physical properties of materials can be explained by the structure and arrangements of the molecules and the forces between those molecules. Students will examine the laws of thermodynamics, molecular collisions, and the reorganization of matter in order to understand how changes in matter take place. Finally, students will explore chemical equilibria, including acid-base equilibria.

English Language and Composition Terms. 2 semesters

Prerequisite. Grade of B in most recent English course

Description. In this course, the students investigate rhetoric and its impact on culture through analysis of notable fiction and nonfiction texts, from pamphlets to speeches to personal essays. Students explore a variety of textual forms, styles, and genres. By examining all texts through a rhetorical lens, students become skilled readers and analytical thinkers. Focusing specifically on

language, purpose, and audience gives them a broad view of the effect of text and its cultural role. Students write expository and narrative texts to hone the effectiveness of their own use of language, and they develop varied, informed arguments through research.

English Literature and Composition Terms. 2 semesters

Prerequisite. Grade of B in most recent English course

Description. This course immerses students in novels, plays, poems, and short stories from various periods. Students will read and write daily, using a variety of multimedia and interactive activities, interpretive writing assignments, and class discussions to assess and improve their skills and knowledge. The course places special emphasis on reading comprehension, structural and critical analysis of written works, literary vocabulary, and recognizing and understanding literary devices.

Macroeconomics

Terms. 1 semester

Prerequisite. Algebra II

Description. In this course, students learn why and how the world economy can change from month to month, how to identify trends in our economy, and how to use those trends to develop performance measures and predictors of economic growth or decline. They'll also examine how individuals, institutions, and influences affect people, and how those factors can impact everyone's life through employment rates, government spending, inflation, taxes, and production.

Microeconomics

Terms. 1 semester

Prerequisite. Algebra I

Description. The course studies the behavior of individuals and businesses as they exchange goods and services in the marketplace. Students will learn why the same product costs different amounts at different stores, in different cities, at different times. They'll also learn to spot patterns in economic behavior and how to use those patterns to explain buyer and seller behavior under various conditions. Microeconomics studies the economic way of thinking, understanding the nature and function of markets, the role of scarcity and competition, the influence of factors such as interest rates on business decisions, and the role of government in promoting a healthy economy.

Physics 1

Terms. 2 semesters

Prerequisite: Geometry, Algebra II, H.S. Physics

Description: The course is equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It also introduces electric circuits.

Physics 2

Terms. 2 semesters

Prerequisite: Geometry, Algebra II, H.S. Physics, Physics 1

Description: This course is equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics, thermodynamics, electricity and magnetism, optics, and atomic and nuclear physics.

Statistics

Terms. 2 semesters

Prerequisite. Algebra II

Description. This course gives students hands-on experience collecting, analyzing, graphing, and interpreting real-world data. They will learn to effectively design and analyze research studies by reviewing and evaluating real research examples taken from daily life. The next time they hear the results from another poll or study, they will know whether the results are valid. As the art of drawing conclusions from imperfect data and the science of real world uncertainties, statistics plays an important role in many fields.

U.S. History

Terms. 2 semesters

Prerequisite. American History and good writing skills

Description. The students investigate the development of American economics, politics, and culture through historical analysis grounded in primary sources, research, and writing. Through the examination of historical themes and the application of historical thinking skills, students learn to connect specific people, places, events, and ideas to the larger trends of U.S. history. Critical-reading activities, feedback-rich instruction, and application-oriented assignments hone students' ability to reason chronologically, to interpret historical sources, and to construct well-supported historical arguments. Students write throughout the course, responding to primary and secondary sources through journal entries, essays and visual presentations of historical content. In discussion activities, students respond to the positions of others while staking and defending claims of their own.

U.S. Government and Politics

Terms: 1 semester

Prerequisites: U.S. History

Description: This course studies the operations and structure of the U.S. government and the behavior of the electorate and politicians. Students will gain the analytic perspective necessary to critically evaluate political data, hypotheses, concepts, opinions, and processes. Along the way, they'll learn how to gather data about political behavior and develop their own theoretical analysis of American politics. They'll also build the skills they need to examine general propositions about government and politics, and to analyze the specific relationships between political, social, and economic institutions.

Biology

Terms. 2 semesters

Prerequisite. Biology, Chemistry

Description: This course builds students' understanding of biology on both the micro and macro scales. After studying cell biology, students move on to understand how evolution drives the diversity and unity of life. Students will examine how living systems store, retrieve, transmit, and respond to information and the processes used by organisms to utilize free energy. Students will perform hands-on labs that give them insight into the nature of science and help them understand biological concepts, as well as how evidence can be obtained to support those concepts. Students will also complete several virtual lab studies where they form hypotheses; collect, analyze, and manipulate data; and report their findings and conclusions.

Psychology

Terms. 1 semester

Prerequisite. Biology

Description: This course provides an overview of current psychological research methods and theories. Students will explore the therapies used by professional counselors and clinical psychologists and examine the reasons for normal human reactions: how people learn and think, the process of human development and human aggression, altruism, intimacy, and self-reflection. They'll study core psychological concepts, such as the brain and sense functions, and learn to gauge human reactions, gather information, and form meaningful syntheses. Along the way, students will also investigate relevant concepts like study skills and information retention.

Spanish Language

Terms. 2 semesters

Prerequisites: 3–4 years of Spanish or equivalent native fluency

Description: In this course, the students practice perfecting their Spanish speaking, listening, reading, and writing skills. They study vocabulary, grammar, and cultural aspects of the language, and then apply what they learn in extensive written and spoken exercises. The course addresses the broad themes of Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics. By the end of the course, students will have an expansive vocabulary, a solid, working knowledge of all verb forms and tenses, strong command of other language structures, and an ability to use language in many different contexts and for varied purposes.

Computer Science A

Terms: 2 Semesters

Prerequisites: Algebra II (required) and English 11 (recommended)

Description: AP Computer Science A is equivalent to a first-semester, college-level course in computer science. The course introduces students to computer science (Java language) with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing.

Northwest Missouri State University
Freshman Admissions from High School
Fall 2016-2017

Admissions Criteria

Admission standards at Northwest Missouri State University are moderately selective. Admission for new freshmen is based on a combination of academic and personal considerations. An applicant's academic accomplishments are a priority and are demonstrated by test scores, grades, class rank and exposure to [college prep curriculum](#). We also look for other qualities such as motivation, dedication to learning, integrity and leadership.

New freshman admission is based on a combination of ACT/SAT score, class rank and GPA. **ACT/SAT scores must come directly from ACT or College Board.** Northwest does not require the writing component of the ACT. The SAT score used for admission is a combination of SAT Critical Reading and SAT Mathematics scores. Students in the class of 2010 and beyond are required to have followed a [college-preparatory curriculum](#) that includes at least 24 units of credit and meet the requirements in either Category I or Category II.

Category I

1. 21 ACT composite or higher (or the SAT equivalent: SAT-980); and
2. A minimum 2.00 cumulative GPA or above (on 4.00 scale)

Category II

1. Have a combined percentile index ([see here](#)) that equals or exceeds 100 points; and
2. A minimum 2.00 cumulative GPA or above (on 4.00 scale)

24- Unit High School Curriculum

- 4 units of English
- 3 units of mathematics
 - High school level algebra and beyond, including algebra II (students who take algebra prior to freshman year will be expected to take 3 additional math units)
- 3 units of science
 - Not including general science; at least one unit must be a laboratory science.
- 3 units of social studies
 - Must include American history and at least one semester of government.
- 1 units of fine arts
- 3 units of additional coursework
 - 1 practical art, 1 physical education, health education, and personal finance.
- 7 units of electives.
 - At least three units must be in English, Mathematics, Science, Social Studies, Fine Arts or Foreign Language.
 - The additional four units can include computer science

So What's Your **RAI** Score?

- (2 x ACT composite score)
 + (1 x percentile high school rank)
 + (20 x high school GPA)
 + (5 x number of high school core courses)

Regent Admission Index Score

Effective fall semester 2009, if you wish to enter any of the Iowa Regent universities as a freshman, you must meet the new Regent Admission Index (**RAI**) requirement. If you meet the minimum high school course requirements listed below and you earn an **RAI** score of at least 245, you will automatically qualify for admission to any of the Iowa Regent universities. If you meet the minimum high school course requirements and you earn an **RAI** score below 245, you may still be considered for admission to any of the Regent universities on an individual basis.

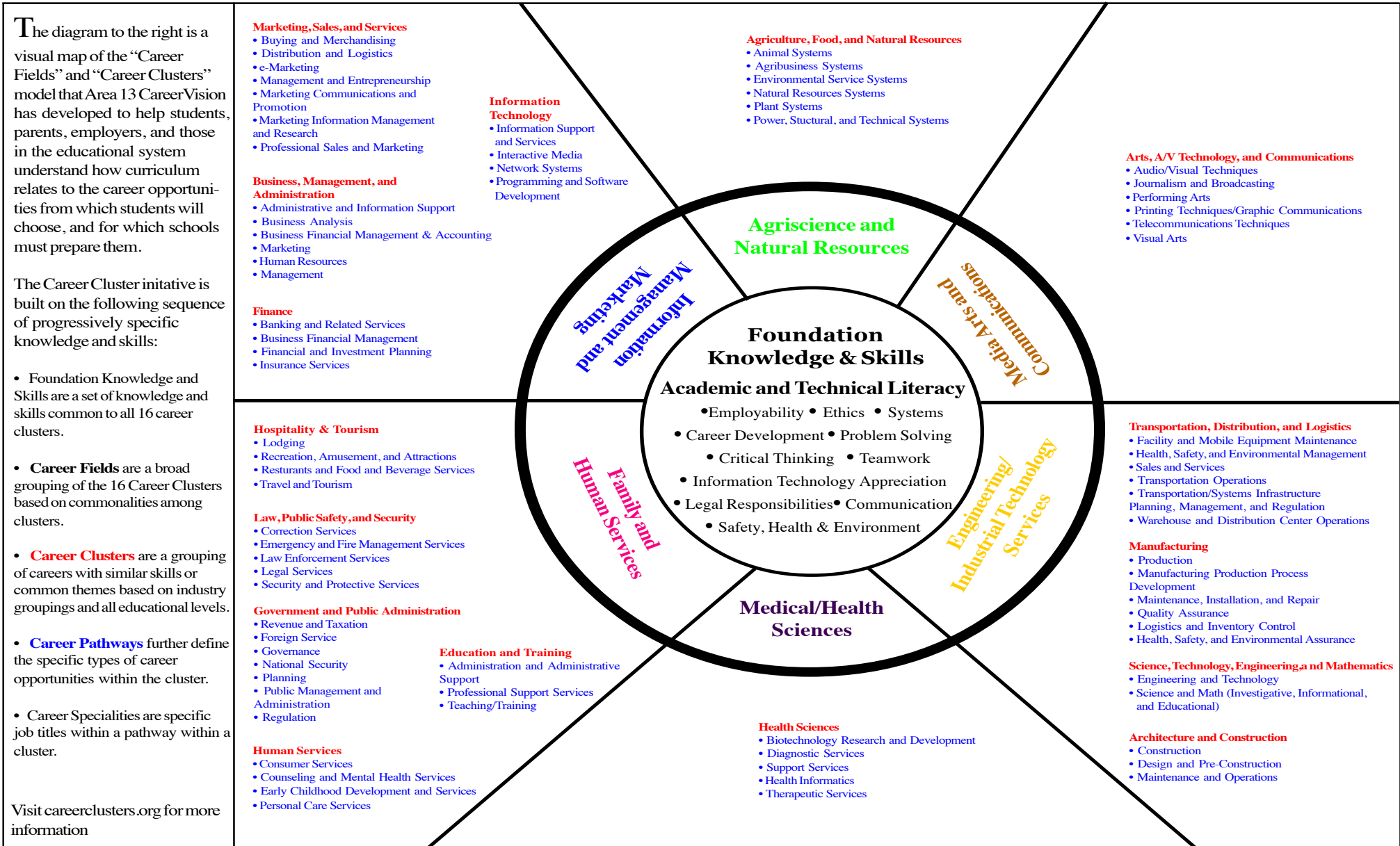
The most effective way to increase your **RAI** score is to take additional core courses (i.e., college-prep courses offered by your high school in any of the following subject areas: English, math, science, social studies, or foreign language). It will not only enhance your chances for gaining admission, it will also increase your likelihood for academic success after you've entered college! If you have questions about which of your high school's courses are considered core courses, just ask your guidance counselor.

Go to www2.state.ia.us/regents/rai/ to calculate your own **RAI** score.

SUBJECT	MINIMUM COURSE REQUIREMENTS FOR ADMISSION			OPTIMUM PREPARATION
	Iowa State University	The University of Iowa	University of Northern Iowa	
English	4 years emphasizing writing, speaking, reading, as well as an understanding and appreciation of literature.	4 years with an emphasis on the analysis and interpretation of literature, composition, and speech.	4 years including one year of composition, also may include one year of speech, communication, or journalism.	4 years with an emphasis on the communication skills of writing, reading, and listening, and the analysis and interpretation of literature. In addition, courses in journalism and media literacy will be valuable. Extracurricular activities in debate, speech contest, newspaper, and yearbook will further develop essential competencies.
Math	3 years including one year each of algebra, geometry, and advanced algebra.	3 years including two years of algebra and one year of geometry for admission to the College of Liberal Arts and Sciences. 4 years including two years of algebra, one year each of geometry and high math (trigonometry, analysis, or calculus) for admission to the College of Engineering.	3 years including the equivalent of algebra, geometry and advanced algebra.	4 years , one in each year of high school. While advanced courses like calculus and statistics are good, it's more important that you gain a complete understanding of advanced algebra and trigonometry.
Natural Science	3 years including one year each from any two of the following: biology, chemistry, or physics.	3 years including one year each from any two of the following: biology, chemistry, or physics for admission to the College of Liberal Arts and Sciences. 3 years with at least one year each in chemistry and physics for admission to the College of Engineering.	3 years including courses in general science, biology, chemistry, earth science, or physics. Laboratory experience is highly recommended.	4 years , one in each year of high school. To be really well prepared, take at least one year each of biology, chemistry, and physics. These can be taken in any order and may be taught productively in either a separate or an integrated fashion, depending on your school's offerings.
Social Studies	2 years for admission to the College of Agriculture and Life Sciences, Business, Design, Engineering, and Human Sciences. 3 years for admission to the College of Liberal Arts and Sciences.	3 years with US history and world history recommended for admission to the College of Liberal Arts and Sciences. 2 years with US history and world history recommended for admission to the College of Engineering.	3 years including courses in anthropology, economics, geography, government, history, psychology, or sociology.	3 years is essential, but four is better. Take at least one year each of US and world history. Additional courses in anthropology, economics, political science, psychology, and sociology provide an important understanding of political, social, and economic institutions.
Foreign Language	2 years of a single foreign language for admission to the College of Liberal Arts and Sciences (and effective fall 2009, for the College of Engineering).	2 years of a single foreign language are required for admission. For many degrees, the fourth year of proficiency is required for graduation.	Foreign language courses are not required for admission. However, two years of foreign language in high school with a C- or above in the last course will meet the university graduation requirement.	4 years of a single foreign language. By taking foreign language during all four years of high school, you'll go beyond the basic skills and begin to use the language and reinforce your fluency.
Other Courses	Specific elective courses are not required for admission.	Specific elective courses are not required for admission.	2 years of additional courses from the required subject areas, foreign language, or the fine arts.	Explore! Courses in the fine arts, performing arts, computers, or technology will help round out your high school experience. Your future field of concentration or career may lie in one of these areas. Follow your interests, talents, and the strengths of your school. Remember to choose courses with high academic standards.

Note: For purposes of calculating the RAI, SAT scores will be converted to ACT composite equivalents, 99% is the top value for high school rank, 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).

Area 13 CareerVision Career Fields, Career Clusters, and Career Pathways Model





Career Plan of Study

Student Name _____
 Student Signature _____

Date _____
 Advisor Signature _____

This plan of study should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade
	English 9 A, B, & Lit	English 10 A & Communications	English 11 A & B	English 12 A (1 English Elective)
	Algebra I, Geometry or Alg. II	Geometry, Algebra II or Pre-Calculus	Algebra II, Pre-Calculus or Calculus	Pre-Calculus, Calculus, or Statistics
	Physical Science	Biology	Chemistry or Physics	Physics, AP Biology
	World History	Geography	American History	Economics/Government
	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Agriscience I	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Agriscience II	Additional High School Electives Animal Science Horticulture Agricultural Marketing Ag. Business Finance & Management Agricultural Communication Landscape Design Conservation Senior Year Plus Option Welding	
Post-Secondary	Technology Center		Community College	College/University
	Horticulture Farm Equipment Repair Horse Production/Management Meat Processing Welding For more information visit www.okcareertech.org		Agriculture Communications Agriculture Economics Agriculture Sciences & Natural Resources Agronomy Animal Science Equine Science Horticulture For more information visit www.okhighered.org	Agriculture Communications Agriculture Economics Agriculture Sciences & Natural Resources Agronomy Animal Science Biochemistry Equine Science Horticulture For more information visit www.okhighered.org
Career Enhancement Options	Work-based Learning Options		Short-Term Training Options	
	Job-Shadowing: Internship:		Farm Business Management Welding Conversational Spanish	



Career Plan of Study

Student Name _____

Date _____

Student Signature _____

Advisor Signature _____

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High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade
	English 9 A & B	English 10 A Communications	English 11 A & B	English 12 A & B
	Algebra I, Geometry, or Alg. II	Geometry, Algebra II or Pre-Calculus	Algebra II, Pre-Calculus or Calculus	Pre-Calculus, Calculus or Statistics
	Physical Science	Biology	Chemistry or Physics	Physics or Ecology
	World History	Geography	American History	Economics/Government
	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Drafting & Design Home Improvement	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Drafting & Design Architectural Drafting Home Improvement	Additional High School Electives Art Drafting and Design Architectural Drafting Pre-engineering Design Agricultural Communication	Senior Year Plus Options Auto CAD I & II Technical Math I & II Machine Theory & Operations I & II
Post-Secondary	Technology Center		Community College	College/University
	AC, Heat & Refrigeration Cabinetmaking Carpentry Construction Trades Drafting CAD Masonry Plumbing For more information visit www.okcareertech.org		Construction Technology Drafting and CAD Engineering Technology Surveying For more information visit www.okhighered.org	Architecture Civil Engineering Construction Management Electrical Engineering Urban Planning For more information visit www.okhighered.org
Career Enhancement Options	Work-based Learning Options		Short-Term Training Options	
	Job-Shadowing: Internship: On-The-Job Training: Apprenticeships: For Apprenticeship information visit www.doleta.gov/atels_bat/sainformation.asp		Basic Residential Wiring Lockout/Tagout Safety Training Steel Framing Conversational Spanish	



Career Plan of Study

Student Name _____

Date _____

Student Signature _____

Advisor Signature _____

This plan of study should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade
	English 9 A & B	English 10 A Communications	English 11 A & B	English 12 A & B
	Algebra I, Geometry or Alg. II	Geometry, Algebra II or Pre-Calculus	Algebra II, Pre-Calculus or Calculus	Pre-Calculus, Calculus or Statistics
	Physical Science	Biology	Chemistry or Physics	Physics or Ecology
	World History	Geography	American History	Economics/Government
	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Art Band/Vocal Music	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Art Band/Vocal Music	Additional High School Electives Art Performance Literature Intro to Theatre Band/Vocal Music Photography Desktop Publishing Stagecraft	Senior Year Plus Options Commercial Art Presentation Production
Post-Secondary	Technology Center		Community College	College/University
	Commercial Art Graphic Communication Electronic Desktop Publishing Telecommunications For more information visit www.okcareertech.org		Desktop Publishing Graphic Design Printing Technology Telecommunications For more information visit www.okhighered.org	Art History Electronic Engineering Fashion Design Journalism Music Stage Management For more information visit www.okhighered.org
Career Enhancement Options	Work-based Learning Options		Short-Term Training Options	
	Job-Shadowing: Internship: On-The-Job Training:		Adobe Photoshop Desktop Publishing Creative Writing Theater Set Design Photography Web Design Telecommunications Protocol Floral Design	



Career Plan of Study

Student Name _____

Date _____

Student Signature _____

Advisor Signature _____

This plan of study should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade
	English 9 A & B	English 10 A Communications	English 11 A & B	English 12 A & B
	Algebra I, Geometry or Alg. II	Geometry, Algebra II or Pre-Calculus	Algebra II, Pre-Calculus or Calculus	Pre-Calculus, Calculus or Statistics
	Physical Science	Biology	Chemistry or Physics	Economics
	World History	Geography	American History	Government
	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Computer Applications General Business Personal Finance	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Core Career General Business Personal Finance	Additional High School Electives Accounting I, II & III Computer Applications Ag Marketing Agribusiness Finance and Management	Senior Year Plus Options Intro to Business Personal Finance Business Communications Interpersonal Communication Office Concepts and Procedures Ethics in Business
Post-Secondary	Technology Center		Community College	College/University
	Business & Computer Technology Help Desk Analysis Business & Administration Services Accounting Services For more information visit www.okcareertech.org		Accounting Business Communications Human Resources Management Administrative Assistant For more information visit www.okhighered.org	Accounting International Business Market Management & Research Operations, Management & Supervision For more information visit www.okhighered.org
Career Enhancement Options	Work-based Learning Options		Short-Term Training Options	
	Job-Shadowing: Internship: On-The-Job Training:		Certified Help Desk Analyst Certified Administrative Manager Microsoft Certified Professional Business Plan Development Entrepreneurship Customer Service Marketing, Advertising and Public Relations Conversational Spanish	



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High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade
	English 9 A & B	English 10 A Communications	English 11 A & B	English 12 A & B
	Algebra I, Geometry or Alg. II	Geometry, Algebra II or Pre-Calculus	Algebra II, Pre-Calculus or Calculus	Pre-Calculus, Calculus or Statistics
	Physical Science	Biology	Chemistry or Physics	Physics or Ecology
	World History	Geography	American History	Economics/Government
	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Life Skills I & II	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Core Career	Additional High School Electives Child Development Family Living Human Behavior Sociology	Senior Year Plus Options Intro to Psychology Foundations of Education Developmental Psychology Intro to Sociology
Post-Secondary	Technology Center		Community College	College/University
	Child Care For more information visit www.okcareertech.org		Pre-Education Family Services and Child Development Secondary Education Health, Physical Education & Recreation English/Language Arts Mathematics Science History For more information visit www.okhighered.org	Early Childhood Education Elementary Education Secondary Education Health and Physical Education Mathematics Education Music/Vocal and Instrumental Educ Science Education Career & Technology Education For more information visit www.okhighered.org
Career Enhancement Options	Work-based Learning Options		Short-Term Training Options	
	Job-Shadowing: Internship: Peer Tutor: On-The-Job Training:		Teacher Cadet Child Care as a Profession Physical and Intellectual Development Planning a Safe, Healthy Learning Environment Conversational Spanish	



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High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade
	English 9 A & B	English 10 A Communications	English 11 A & B	English 12 A & B
	Algebra I, Geometry or Alg. II	Geometry, Algebra II or Pre-Calculus	Algebra II, Pre-Calculus or Calculus	Pre-Calculus, Calculus or Statistics
	Physical Science	Biology	Chemistry or Physics	Economics
	World History	Geography	American History	Government
	Required Courses/ Electives PE, Health, Art, Spanish or Computer Technology Career Electives Computer Applications General Business Personal Finance	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Computer Applications Core Career General Business Personal Finance	Additional High School Electives Accounting I, II & III Economics	Senior Year Plus Options Computer Accounting Intro to Business Intro to Microeconomics Personal Finance Ethics in Business Interpersonal Communication
Post-Secondary	Technology Center		Community College	College/University
	Accounting Services Financial Services Insurance Services For more information visit www.okcareertech.org		Banking & Financial Support Services Actuarial Sciences Accounting Finance For more information visit www.okhighered.org	Accounting Business, Managerial Economics Finance Insurance & Risk Management For more information visit www.okhighered.org
Career Enhancement Options	Work-based Learning Options		Short-Term Training Options	
	Job-Shadowing: Internship: On-The-Job Training:		Basic Insurance Ethics in Financial Services Peachtree for Windows Quickbooks Pro Payroll Reporting Requirements Bank Services Business Writing Business Communications	



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High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade
	English 9 A & B	English 10 A Communications	English 11 A & B	English 12 A & B
	Algebra I, Geometry or Alg. II	Geometry, Algebra II or Pre-Calculus	Algebra II, Pre-Calculus or Calculus	Pre-Calculus, Calculus, or Statistics
	Physical Science	Biology	Chemistry or Physics	Physics
	World History	Geography	American History	Economics/Government
	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Core Career Street Law	Additional High School Electives Human Behavior Sociology Public Speaking Senior Year Plus Options Intro to Criminal Justice Criminal Law Police & Society Intro to Corrections	
Post-Secondary	Technology Center		Community College	College/University
	Law Enforcement Cyber Security For more information visit www.okcareertech.org		Communications Geography History Management Political Science Sociology For more information visit www.okhighered.org	American Studies Economics Political Science Planning Sociology Foreign Language For more information visit www.okhighered.org
Career Enhancement Options	Work-based Learning Options		Short-Term Training Options	
	Job-Shadowing: Internship: On-The-Job Training:		Crime Scene Investigation Latent Fingerprint Comparison	



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High School	9 th Grade		10 th Grade	11 th Grade	12 th Grade
	English 9 A & B		English 10 A Communications	English 11 A & B	English 12 A & B
	Algebra I or Geometry		Geometry or Algebra II	Algebra II, Pre-Calc or Calculus	Pre-Calc, Calculus, or Statistics
	Physical Science		Biology	Chemistry, Anatomy & Phys. or Physics	Physics, AP Biology or AP Chemistry
	World History		Geography	American History	Economics/Government
	Required Electives PE, Health, Art, Spanish, or Computer Technology		Required Electives PE, Health, Art, Spanish, or Computer Technology	Additional High School Electives Health Basic Anatomy Accounting Human Behavior Sociology Additional Science coursework	
Post-Secondary	Career Electives Life Skills I & II		Career Electives Life Skills I & II	Senior Year Plus Options Medical Terminology Nutrition CNA Course Interpersonal Communication Intro to Sociology Intro to Psychology	
	Technology Center		Community College		College/University
Career Enhancement Options	Practical Nursing Dental Assisting Emergency Medical Technician Occupational Therapist Assistant Physical Therapist Assistant Surgical Technology Advanced Unlicensed Assistant For more information visit www.okcareertech.org		Dental Hygienist Occupational Therapy Assisting Orthotic Prosthetics Technician Physical Therapy Assistant Radiologic Technologist Respiratory Care Biotechnology For more information visit www.okhighered.org		Dentist Nursing Medical Technologist Doctor of Osteopathic Medicine Pharmacist Physical Therapist Physician Veterinarian Science For more information visit www.okhighered.org
	Work-based Learning Options		Short-Term Training Options		
Career Enhancement Options	Job-Shadowing: Internship/Mentorship: On-The-Job Training:		Certified Nurse Aid Certified Medication Aide CPR / First Aid Certification Alzheimer's / Geriatric Care Training Phlebotomy Medical Coding EKG Technician Pharmacy Technician Central Sterile Processing Technician Veterinary Assistant Medical Transcriptionist Conversational Spanish		



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High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade
	English 9 A & B	English 10 A Composition	English 11 A & B	English 12 A & B
	Algebra I or Geometry	Geometry or Algebra II	Algebra II, Pre-Calculus	Pre-Calculus, Calculus, or Statistics
	Physical Science	Biology	Chemistry or Physics	Psychology/Sociology
	World History	Geography	American History	Economics/Government
	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology	Additional High School Electives Food & Nutrition Culinary Arts Horticulture	
	Career Electives Life Skills I & II	Career Electives Life Skills I & II Core Career	Senior Year Plus Options Nutrition	
Post-Secondary	Technology Center		Community College	College/University
	Food Services I & II Hospitality Careers I & II For more information visit www.okcareertech.org		Travel and Tourism Management Hotel, Motel, Restaurant Management Culinary Arts/Chef Training Parks, Recreation & Leisure Studies For more information visit www.okhighered.org	Hospitality/Administration Management Restaurant and Food Service Management For more information visit www.okhighered.org
Career Enhancement Options	Work-based Learning Options		Short-Term Training Options	
	Job-Shadowing: Internship: On-The-Job Training:		Travel – Airline Agent Food Management Sanitation Certification Food Services Practices Cake Decorating Gourmet Cooking Artesian Bread Bakery Conversational Spanish	



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High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade
	English 9 A & B	English 10 A Communication	English 11 A & B	English 12 A & B
	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Pre-Calculus	Pre-Calculus, Calculus, or Statistics
	Physical Science	Biology	Chemistry or Physics	Anatomy & Physiology
	World History	Geography	American History	Economics/Government
	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Life Skills I & II	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Life Skills I & II Core Career	Additional High School Electives Human Behavior Sociology Family Living Child Development	Senior Year Plus Options Intro to Psychology Intro to Sociology Interpersonal Communication
Post-Secondary	Technology Center		Community College	College/University
	Child Care Cosmetology Health Certifications Insurance Services For more information visit www.okcareertech.org		Family Services & Child Development Mortuary Science Psychology Sociology Sales & Customer Service For more information visit www.okhighered.org	Early Childhood Education Industrial Organizational Psychology Marriage & Family Counseling Social Work Sociology For more information visit www.okhighered.org
Career Enhancement Options	Work-based Learning Options		Short-Term Training Options	
	Job-Shadowing: Internship: On-The-Job Training:		Parenting and Child Development Caring for Aging Parents Financial Planning Conversational Spanish	



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High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade
	English 9 A & B	English 10 A Composition	English 11 A & B	English 12 A & B
	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Pre-Calculus	Pre-Calculus, Calculus, or Statistics
	Physical Science	Biology	Chemistry or Physics	Physics
	World History	Geography	American History	Economics/Government
	Required Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Computer Applications	Required Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Computer Applications	Additional High School Electives Web Design Desktop Publishing Information Management Multimedia	Senior Year Plus Options Presentation Production PC Support
Post-Secondary	Technology Center		Community College	College/University
	Business and Computer Technology Commerce and Web Services Information Services Network Services Cyber Security For more information visit www.okcareertech.org		Computer Program and Computer Science Graphic Design and Visual Communications E-Commerce Computer Information Systems Information Technologies For more information visit www.okhighered.org	Management Information Systems Management Science & Computer Systems E Commerce Computer Science Information Science For more information visit www.okhighered.org
Career Enhancement Options	Work-based Learning Options		Short-Term Training Options	
	Job-Shadowing: Internship: On-The-Job Training:		Advanced Networking Desktop Certifications Linux I Linux II Windows XP Network + Internet Network and Security	



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High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade
	English 9 A & B	English 10 A Composition	English 11 A & B	English 12 A & B
	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Pre-Calculus	Pre-Calc, Calculus, or Statistics
	Physical Science	Biology or Chemistry	Chemistry Physics or AP Biology	Physics or AP Chemistry
	World History	Geography	American History	Economics/Government
	Required Courses/Electives PE/Health/Art/Spanish /Computer Technology Career Electives Computer Applications	Required Courses/Electives PE/Health/Art/Spanish /Computer Technology Career Electives Computer Applications Core Career	Suggested High School Electives Public Speaking Street Law Human Behavior Sociology	Senior Year Plus Options Intro to Criminal Justice Criminal Law Police & Society Intro to Corrections
Post-Secondary	Technology Center		Community College	College/University
	Criminal Justice Law Enforcement Firefighter Training Emergency Medical Technician Cyber Security For more information, visit <Insert an appropriate national/state Web site>		Emergency Medicine Science Criminal Justice Pre-Law Crime Victim/Survivor Services Police Science Fire Protection Technology For more information, visit <Insert an appropriate national/state Web site>	Criminal Justice Political Science Sociology Fire Protection & Safety Technology Law For more information, visit <Insert an appropriate national/state Web site>
Career Enhancement Options	Work-Based Learning Options		Short-Term Training Options	
	Job-Shadowing: Internship: On-The-Job Training:		Crime Scene Investigation American Red Cross First Aid Latent Fingerprint Comparison CPR Standardized Field Sobriety Testing EMT I Unarmed Security Guard EMT II Introduction to Technical Rescue Paramedic Vehicle & Machinery Rescue Rope Rescue Fire Pump Maintenance Conversational Spanish	



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High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade
	English 9 A & B	English 10 A Composition	English 11 A & B	English 12 A & B
	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Pre-Calculus	Pre-Calculus, Calculus or Statistics
	Physical Science	Biology	Chemistry or Physics	Physics or AP Chemistry
	World History	Geography	American History	Economics/Government
	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Agriscience I Home Improvement	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Agriscience II Home Improvement	Additional High School Electives Drafting & Design Architectural Drafting Pre-engineering Design Art	Senior Year Plus Options Auto CAD I & II Welding I & II Machine Theory & Operations Technical Math I & II
Post-Secondary	Technology Center		Community College	College/University
	Automated Manufacturing Technology Drafting and CAD Electronics Industrial Maintenance Manufacturing Engineering Technology Precision Machining Plastic Manufacturing Welding For more information visit www.okcareertech.org		Engineering Technology Agriculture Engineering Precision Production Trades Manufacturing Technology Pre-Engineering Industrial Drafting Automated Aerospace Manufacturing Technology For more information visit www.okhighered.org	Mechanical Engineering Engineering Technology Industrial Technology Mechanical Engineering Technology For more information visit www.okhighered.org
Career Enhancement Options	Work-based Learning Options		Short-Term Training Options	
	Job-Shadowing: Internship: On-The-Job Training:		Safety Training Welding I Welding II Precision Machining Lean Manufacturing	

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High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade
	English 9 A & B	English 10 A Communication	English 11 A & B	English 12 A & B
	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Pre-Calculus	Pre-Calculus, Calculus, or Statistics
	Physical Science	Biology	Chemistry or Physics	Psychology
	World History	Geography	American History	Economics/Government
	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives General Business Personal Finance	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives General Business Personal Finance Core Career	Additional High School Electives Ag Marketing Ag Business Finance & Management Accounting I, II, & III Public Speaking	Senior Year Plus Options Intro to Business Intro to Ethics Ethics in Business Intro to Microeconomics
Post-Secondary	Technology Center		Community College	College/University
	Marketing Management Fashion Merchandising International Marketing For more information visit www.okcareertech.org		Retail Management Marketing Entrepreneurship Customer Service For more information visit www.okhighered.org	Marketing Merchandising Public Relations Management Information Systems For more information visit www.okhighered.org
Career Enhancement Options	Work-based Learning Options		Short-Term Training Options	
	Job-Shadowing: Internship: On-The-Job Training:		Marketing a Small Business Insurance Licensing Real Estate Licensing Web Page Design Adobe Illustrator	

Note: Marketing Programs may be the same at the high school and technology center.



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High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade
	English 9 A & B	English 10 A Composition	English 11 A & B	English 12 A & B
	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Pre-Calculus	Pre-Calculus, Calculus or Statistics
	Physical Science	Biology	Chemistry or Physics	AP Biology, AP Chemistry, or AP Physics
	World History	Geography	American History	Economics/Government
	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Agriscience I	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Agriscience II	Additional High School Electives Drafting and Design Architectural Drafting Pre-engineering Design	Senior Year Plus Options AutoCAD I & II Machine Theory and Operations Technical Math I & II Welding I & II
Post-Secondary	Technology Center		Community College	College/University
	Automated Manufacturing Technology Drafting and CAD Electronics Industrial Maintenance Manufacturing Engineering Technology Precision Machining For more information visit www.okcareertech.org		Design Engineering Technology Pre-Engineering Industrial Drafting Biology Chemistry Physics Mathematics For more information visit www.okhighered.org	Mechanical Engineering Civil Engineering Mathematics Biology Biochemistry Chemistry Physics Management Science and Systems Analysis For more information visit www.okhighered.org
Career Enhancement Options	Work-based Learning Options		Short-Term Training Options	
	Job-Shadowing: Internship: On-The-Job Training:		Safety Training Visual Basic 6 VB Net Wireless Technology Internet & Network Security AutoCAD	

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	English 9 A & B	English 10 A Communication	English 11 A & B	English 12 A & B
	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Pre-Calculus	Pre-Calculus, Calculus or Statistics
	Physical Science	Biology	Chemistry or Physics	Physics
	World History	Geography	American History	Economics/Government
	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Small Engine Repair Agriscience I	Required Courses/Electives PE, Health, Art, Spanish, or Computer Technology Career Electives Small Engine Repair Agriscience II	Additional High School Electives Agriculture Auto Mechanics	Senior Year Plus Options Welding I & II
Post-Secondary	Technology Center		Community College	College/ University
	Auto Collision Auto Service Technology Aviation Maintenance Technology Diesel Service Technology Heavy Equipment Repair Marine Service Technology Motorcycle Mechanics Truck Driver Training For more information visit www.okcareertech.org		Automotive Collision Repair Automotive Service Pro-Tech Heavy Equipment & Vehicle Institute Automotive Technology Aviation Maintenance Technology Business Logistics Warehouse Management For more information visit www.okhighered.org	Engineering Mechanical Engineering Aerospace Engineering Mechanical Engineering Technology For more information visit www.okhighered.org
Career Enhancement Options	Work-based Learning Options		Short-Term Training Options	
	Job-Shadowing: Internship: On-The-Job Training: Apprenticeships: For Apprenticeship information visit www.doleta.gov/atels_bat/sainformation.asp		Safety Training Commercial Drivers License Defensive Driving Small Engine Repair Automatic Transmissions Intro to Pneumatics and Hydraulics Medium/Heavy Truck Brakes	