

# **Central Community School Course Registration Handbook 2018-2019**

**MIDDLE SCHOOL & HIGH SCHOOL**



**SCHOOL, PARENTS & COMMUNITY WORKING TOGETHER**

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**INTRODUCTION**

Central has a rich tradition of providing a solid core of basic skills within a broad-based curriculum. Students rank high on

the Iowa Test of Educational Development and the Iowa Test of Basic Skills. More than 50 percent of Central's graduates continue their education at a two-year vocational, junior, or community college or four-year institution.

Central's ACT test scores consistently rank higher than Iowa and National scores.

The school district with a population of 4,500 encompasses an area of 187 square miles including the six incorporated towns of Elkader, Elkport, Garber, Littleport, St. Olaf, and Volga.

The current enrollment is approximately 500 students in Pre-kindergarten through Grade 12. The staff is composed of 80 teachers, administrators, and support personnel.

Central is a member of the 13-school Upper Iowa Conference that holds scheduled activities in music, speech, and athletics.

The community is involved in the needs of the school at all levels. Advisory committees, academic, music, and athletic booster clubs, along with classroom volunteers support the programs provided by the school.

Two well-established media centers serve the informational needs of students. In addition to strong programs in language arts, mathematics, science, and social studies, programs are offered in agricultural science, technology, and marketing; art; business and computer science; Spanish; health, family & consumer sciences; instrumental and vocal music; physical education; special education; and technology education. The K-12 guidance program provides support for all students.

Extra-curricular activities include Agricultural Science, Technology, and Marketing (FFA); Iowa High School Speech Association; National Honor Society; Peer Helpers; Spanish Club; Student Council; and Tutors. Music, speech, drama, and journalism are also available to students.

Vocal music groups include elementary chorus and junior high chorus. High school level groups include mixed chorus, men's chorus, and women's chorus. Other vocal programs are chamber choir, jazz plus, solos and ensembles.

Fall and spring plays and individual and large group events are offered for students interested in drama. Student journalists can participate in the production of the school newspaper, the Tatler; the school yearbook, Shadows; or contribute to the school literary magazine.

Central is a member of the Iowa High School Girls Athletic Union and the Iowa Boys Athletic Association. Athletes can

compete in baseball, basketball, cheerleading, cross country, football, golf, softball, track, volleyball, soccer and wrestling. The primary purpose of this handbook is to familiarize the student and the parents with the program of studies and extra-curricular offerings of Central Junior and Senior High School. This handbook is your personal property, and you are expected to use it during your school days. Study the information contained herein and discuss the material with your parents and teachers.

The administration and faculty of the Central Junior and Senior High School invite the parents to take an active interest in the welfare and progress of their children in their school work. Parents are cordially invited to visit school at any convenient time, counsel with the teachers, examine records and test data, and cooperatively chart with school officials the educational course of their child.

To build a useful and happy life, one must have a definite purpose to use as a guide. In our modern world it is essential that students use the time that they will be in school to the greatest advantage.

**Those students who plan to continue their education beyond the four years of high school work should closely check the entrance requirements of the institution of higher learning to be attended.** Parents should enter into this planning. Our faculty and administrators are constantly at the disposal of students and parents alike.

**GRADUATION**

A student must meet all requirements of the Board of Education and be a student in good standing to participate in graduation ceremonies. The policy will be evaluated annually to determine if the policy is in the best interest of the students and school district.

**ATTENTION**

If you plan to attend any post-graduation school it is highly recommended that you follow the course requirements for the Honors Diploma program. If you are short of these requirements you may experience entry acceptance difficulty. Be sure to confer with our counselor on course selection. It is also advisable to know the entrance requirements to any college which you are interested in attending, be it a four year school or a two year school. Student athletes should be aware of NCAA requirements for athletes.

**GRADUATION REQUIREMENTS**

All seniors will be expected to complete the Ever-Fi financial literacy on-line module program under the "I Have A Plan" program.

**P.E. Exceptions:**

1. A student may be excused if P.E. violates his or her religious beliefs.
2. A student may be excused for medical or physical limitations.
3. A student in grades 11<sup>th</sup> or 12<sup>th</sup> may be excused if taking a full load of classes – eight classes for eight periods and participates in a sport during the school year.

**Evaluation of Credit**

1. Courses that meet 6 days a cycle will yield 1/2 unit per semester.
2. Courses that meet three days a cycle will yield 1/4 unit per semester.

**NCAA COURSE REQUIREMENTS FOR STUDENTS ATTENDING A DIVISION I OR DIVISION II SCHOOL AND PARTICIPATING IN ATHLETICS.**

A student wishing to participate in athletics at an NCAA Division I or II school must meet certain requirements consisting of certification with the clearing house and including the following:

1. Graduate from high school
2. Earn a G.P.A. of 2.00 in a core curriculum of at least 13 academic courses as follows:

	<u>Division I</u>	<u>Division II</u>
English Core	4 years	3 years
Math Core	2 years	2 years
Science Core	2 years	2 years
Social Science Core	2 years	2 years
From English, Math or Science (additional core)	1 year	2 years
Additional Core	<u>2 year</u>	<u>2 years</u>
Total	13	13

3. ACT score of 68 derived by summing the four scores.
4. A final transcript.

**Pre-registration**

Students will register in the spring for the subjects they wish to take for the coming year. The schedule will be set up from this pre-registration. Members of both sexes are encouraged to take career & technical programs in all areas at any time.

**STANDARD DIPLOMA****25 Units Required**

Recommended classes in required areas

<b>Language Arts</b>	<b>4</b>
English 1	1
English 2	1
English 3	1
English Elective	1
<b>Mathematics</b>	<b>3</b>
<b>Science</b>	<b>3</b>
General Science	1
Biology	1
Science Elective	1
<b>Social Science</b>	<b>3.0</b>
Early U.S. History	1
Modern U.S. History	1
American Government	.5
Elective	.5
<b>Physical Education</b>	<b>2*</b>
<b>Electives</b>	<b>10</b>

**HONORS DIPLOMA****25 Units Required**

1. **Grade point average of 3.30 or above.**
2. **ACT Composite of 23 or higher**

<b>Language Arts</b>	<b>4</b>
English 1	1
English 2	1
English 3	1
AP Literature & Composition	1
<b>Mathematics</b>	<b>3</b>
Geometry	1
Algebra 2	1
Statistics or Pre Calc	1 (one full credit
must be earned with the make-up of these math classes)	
<b>Science</b>	<b>3</b>
General Science	1
Biology	1
Phys/Anatomy or Physics or Chem.	1
<b>Social Science</b>	<b>3.5</b>
Early U.S. History	1
Modern U.S. History	1
American Government	.5
Elective	1
<b>Foreign Language</b>	<b>2</b>
<b>Physical Education</b>	<b>2*</b>
<b>Electives</b>	<b>7.5</b>

\*The only on-line classes that count toward an Honor's Diploma credit are AP classes.

**GRADES 7, 8 REQUIREMENTS AND ELECTIVES****\* Required Courses****7th Grade**

* Math 7 - Year	* Fam. & Con. Sci & Health - Sem
* Social Studies - Year	* PBL (Project Based Learning) -Sem
* Literature - Year	* Writing - Year
* Science -Year	Band - Year
* Metals - Sem	Chorus - Year
* Digital Literacy - Sem	*Mental Health - Sem
* Voc. Ag - Sem	* PE -Year

**8th Grade**

* Math 8/Algebra 1 -Year	* Family & Con. Sci & Health - Sem
* Social Studies - Year	* Digital Literacy - Sem
* Science - Year	* Mental Health - Sem
* Reading/Fusion - Year	* Writing - Year
* Art - Sem	* PE - Year
* Carpentry - Sem	Band
* Animal Production - Sem	Chorus

**Change of Schedules**

It is very important that you choose your courses wisely. If conflicts occur in the scheduling process, the student will be contacted by the counselor. Scheduling questions should be brought to the counselor or principal before FINAL REGISTRATION.

**NO CHANGES WILL BE ALLOWED ONE WEEK BEFORE CLASSES BEGIN. A COURSE DROPPED AFTER THIS TIME WILL RESULT IN A FAILURE.**

The addition of new subjects or cancellations of any subjects listed in the Grade Requirements and Electives, plus program changes by subject failures, are factors in considering registration changes. Any other change will have to be considered by the instructor involved, guidance counselor, and principal. Students may not drop a course if their course load would be less than 3 units (six classes) of work including P.E. if dropped.

**POLICY REGARDING EARLY GRADUATION**

It shall be the general policy of the Board of Education to grant permission for students to graduate in seven semesters providing they meet the requirements of at least the standard diploma.

Students that wish to graduate early are requested to apply in writing. **Applications must be made by October 15.** Parental approval is required if the student is under age 18. Early graduates are entitled to participate in graduation ceremonies. Recommendations for early graduation will be sent to the Board for final approval.

**COURSES TAKEN DURING YEARS OFFERED**

Courses are scheduled to be taken during a special year. Older students may register down, but younger students may not register up.

**STUDENT'S PROGRAM**

Each student is urged to discuss his plans with parents and teachers. He is expected to acquaint himself with the Program of Studies and the requirements for graduation. Check with the counselor or persons outside of school, concerning occupational advantages available in the various fields. Select the curriculum and those subjects which will best enable you to obtain the information YOU need for YOUR plans.

**FOREIGN EXCHANGE STUDENT**

A special diploma shall be issued to exchange students who are classified as seniors and complete one academic year of residency.

**ACCEPTING CREDIT FOR CORRESPONDENCE COURSES**

It is the philosophy of the Central Community Schools that correspondence courses are not equal to courses offered by the school; however, we believe that correspondence courses provide an option for students that may not be available within our regular curriculum. Therefore, credit will be acceptable under the following conditions:

1. All courses must be approved by the high school counselor and principal. Students must be enrolled at Central in order to have courses approved.
2. No more than two courses will apply toward graduation requirements.
3. Courses ordered through the school will be paid for in advance. All costs are paid by the student.

**"POSTSECONDARY ENROLLMENT OPTIONS ACT"**

It is the policy of this state to promote rigorous academic or vocational-technical pursuits and to provide a wider variety of options to high school pupils by enabling 11th and 12th grade pupils to enroll part time in nonsectarian courses in eligible postsecondary institutions of higher learning in this state. A ninth or tenth grade student who is identified as a gifted and talented student according to the school district's criteria and procedures may now participate under this Act. The specific purposes of this Act are to promote rigorous pursuits and provide a wider variety of options for students.  
Iowa Code 261C.2

1. Student eligibility - part time in both high school/postsecondary institutions.
2. Postsecondary Institutions/Courses - regents, area schools

and most private schools/nonsectarian courses.

3. Application and Enrollment Process for students - students are provided information by March 1; students should contact counselor to arrange schedules and apply; student should inform the school district by normal registration time; parent/guardian/student signature is required; student must submit usual application materials to the postsecondary institution.
4. Type of credit - school district must grant high school units of credit which count toward graduation; after leaving high school the postsecondary institution/s shall award postsecondary credit.
5. Determination of High School Credits - students must know that the school district will award credit toward graduation that is consistent with board policy.
6. Eligible postsecondary Courses - Nonsectarian; course not comparable to courses offered by the school district; credit-bearing courses that lead to an educational degree; courses in the discipline areas of math, science, social sciences, humanities, vocational-technical education and also the courses in career option programs offered by area schools.
7. Transportation - parent/guardian/student will furnish transportation.
8. Payment for courses - school district shall pay no more than \$250 per class.
9. School District Claims for Aid - Gifted funds may be used if the student has been enrolled in the gifted program.
10. **Code 604.10 Virtual/On-Line Courses-** High school students may earn a maximum of 24 (twenty-four) credits to be applied toward graduation requirements by completing on-line courses offered through agencies approved by the board, such as the Iowa On-Line Learning. Credit from an on-line or virtual course may be earned only in the following circumstances:
  - \*The course is not offered at the high school;
  - \*Although the course is offered at the high school, the student will not be able to take it due to an unavoidable scheduling conflict that would keep the student from meeting graduation requirements;
  - \*The course will serve as a supplement to extend homebound instruction;
  - \*The student has been expelled from the regular school setting, but educational services are to be continued; or
  - \*The principal, with agreement from the student's teachers and parents, determines the student requires a differentiated or accelerated learning environment.

**ALTERNATIVE GRADING, CREDIT, AND GRADUATION POLICIES FOR THE RESOURCE TEACHING PROGRAM RATIONALE**

We recognize the fact that some students have learning difficulties that prevent them from successfully competing for grades under the traditional system. We believe also that

failure is detrimental to a student who is making a legitimate effort. Therefore, this policy is intended to allow resource program students to be graded on an individual program based on ability.

### ELIGIBILITY

Any high school student staffed into the resource room will be eligible. Eligibility will be determined by individual subject, so that it is possible for a student to be taking some classes under the traditional grading system and others under the alternative system.

### PROCEDURE

Any resource program student whose work is adapted by either a change in curriculum materials or in expected levels of performance will use the alternative grading policy for the duration of that course.

### CREDIT FOR SPECIAL EDUCATION PROGRAMS

Students will be awarded credit toward graduation for satisfactory grades earned through the resource program. A student who is removed from a required class or classes completely will be awarded full credit for each course taught by the special educator under the supervision and with the approval of the principal.

### ALTERNATIVE PROGRAM GRADUATION

A student who has satisfied the credit requirements for graduation and has completed the educational program outlined in his/her Individual Educational Program will be graduated from Central Community School with the same considerations as any other graduating senior that has met all the graduation requirements. This will include a standard diploma and any other recognition granted to a student in the regular education program.

### STUDENT PLACEMENT

We will place students in required courses at the level that will most benefit the student. This does not mean that the course will be the easiest that the student could be placed in. Counseling with the parent and student may alter this process.

### EQUITY POLICY #6128

It is the policy of the Central Community School not to discriminate on the basis of sex, race, national origin, creed, age, marital status, or physical disability in its education programs, activities, or employment policies as required by Title VI and VII of the 1964 Civil Rights Act, Title IX of the 1972 Education Amendments, and the Federal Rehabilitation Act of 1973.

It is also the policy of this district that the curriculum content and instructional materials utilized reflect the cultural and racial

diversity present in the United States and the variety of careers, roles, and life-styles open to women as well as men in our society. One of the objectives of the total curriculum and teaching strategies is to reduce stereotyping and to eliminate bias on the basis of sex, race, and appreciation for the cultural diversity found in our country and an awareness of the rights, duties, and responsibilities of each individual as a member of a multicultural, nonsexist society.

### COURSE DESCRIPTIONS

Courses are described on the following pages. A word of explanation regarding semester—a 1 means the course is offered 1st semester; a 2 means that the course is offered 2nd semester; a 1 and 2 means the same course is offered 1st and 2nd semester; and a 3 means the course is a full-year course.

### JR. HIGH COURSE DESCRIPTIONS (GRADES 7 & 8 )

#### MATH

Course: **Math 7**  
Grade: 7 Required  
Semester: 3

Description: Seventh Grade Math is a general math class dealing mostly with basic operations involving whole numbers, decimals, and fractions. Other topics include the metric system, ratio and proportion, percent, geometry, integers, graphing, and solving equations.

Course: **Math 8**  
Grade: 8 Required  
Semester: 3

Description: Eighth Grade Math is a general math course involving pre-algebra concepts, operations with whole numbers, decimals, and fractions are reviewed. Also included are chapters on solving equations, integers, coordinate graphing, exponents and scientific notation, ratio and proportion, percent, geometry, perimeter, area and volume, square root and right triangle geometry, statistics and graphing algebra.

#### SOCIAL STUDIES

Course: **Social Studies 7**  
Grade: 7 Required  
Semester: 3

Description: The five themes of geography will be used to explore various regions of the world. Students will exit the class with the geographic tools necessary to participate in this global environment. The study of Iowa's history, heritage, and outlooks for the future take place fourth quarter. Current issues will play an important role in this class offering.

**Course: Social Studies 8**

Grade: 8 Required  
Semester: 3

Description: The eighth grade social studies class is divided into three areas of study. Civics, economics and an intro to sociology will be the topics of study. Current issues will be used to enhance class participation and to bring about greater understanding. The topic for study the second semester is government. The students will be introduced into the complicated network of government. All levels of government will be examined with emphasis on our country's constitution.

**Course: Science 7**

Grade: 7 Required  
Semester: 3

Description: The major areas of study include: earth, magnetism, electricity, forces, and the different types of life. Areas discussed include plate tectonics, minerals, rocks, motion, pressure, kingdoms, and bacteria. Completion of projects will be required.

**Course: Science 8**

Grade: 8 Required  
Semester: 3

Description: The major areas of study for this course include: weather, astronomy, human biology, and environmental science. Areas discussed include wind, precipitation, celestial bodies, body systems, and environmental factors.

**Course: Writing**

Grade: 7  
Semester: 3

Description: In this differentiated language program students will study oral and written communication in four basic areas: grammar, spelling, writing, and literature. The writing process is stressed throughout the year. Students will complete a separate vocabulary program, complete assorted creative and expository writings, respond to prompts, and maintain a journal. Students will use their voice to make writing impactful and purposeful as they learn to expand on the knowledge that was gained in the previous years. In addition, students will investigate the parts of speech and the parts of the sentence.

**Course: Writing**

Grade: 8  
Semester: 3

Description: This course includes the study of grammar, usage, spelling, written composition, public speaking, literature, and a challenging vocabulary program. This class requires students to prepare daily homework assignments and complete outside reading. Students will complete assorted creative and expository writings, respond to prompts, and maintain a journal. Grammar and vocabulary elements are studied separately as well as integrated into students' writing.

**Course: Chorus**

Grade: 7 & 8 Elective  
Semester: 3

Description: The Middle School Choral Program will strengthen musical and performance skills through the use of the singing voice. Correct vocal production, basic music theory, and ensemble performance will be taught. Students in Middle School Chorus will have one lesson per cycle with the instructor. Large group chorus will meet every other day. Performances will include a Fall Concert, a Winter Concert, the UIC Vocal Festival, and a Spring Concert. Students are given the opportunity to participate in a solo and ensemble festival held at Central in February. Students may audition for selection into various honor choirs, including OPUS.

**Course: Band**

Grade: 7 & 8 Elective  
Semester: 3

Description: The Junior High & Middle School Band programs will include marching and concert band. The marching band's main function is to march at the homecoming parade. The concert band's main function will be the development of the skills and techniques necessary for performance in the large group. Students in Junior High Band will be expected to spend one period per cycle in individual study with the instructor. The activities of the band will include parade marching, concerts, solo and ensemble contest and large group contest.

**Course: Information Literacy & Technology**

Grade: 7  
Semester: 3

Description: This course focuses on the skills needed to be a literate and technologically competent learner. Through an inquiry-based approach, students will be encouraged to use different informational sources and technology tools to find and evaluate information, connect and collaborate with peers, and produce content that can be shared with others.

**Course: Metals**

Grade: 7  
Semester: 3

Description: We will look at properties of different metals and how they are used. We will also demonstrate how to safely use equipment and some the terminology associated with a metal shop. Some of the equipment the students will be introduced to are stick welders, wire welder, oxy-acetylene torches, and plasma cutters, etc.

Course: **Animal Production**

Grade: 7 &amp; 8

Semester: 3

Description: The animal production exploratory will deal with animals that are commonly used to produce food such as beef, pork, dairy as well as some of the technological advances in animal reproduction. We will look at different breeds of livestock and some of the reasons why the animals have evolved to what they are today.

Course: **Carpentry**

Grade: 8

Semester: 3

Description: The reading as well as accuracy and how 21st century skills impact quality in the workplace. The 8th grade Industrial Tech exploratory will deal with woodworking and carpentry. We will build a small wood project while learning how to use woodworking tools safely. We will emphasize measurement and planning.

Course: **FCS/Health**

Grade: 7

Semester: 3

Description: Students in this course will learn to make healthier lifestyle choices with a focus on nutrition. They will participate in the 7th grade Draw the Line; Respect the Line program in order to learn knowledge and interpersonal skills when making decisions. Students will also learn sewing skills while completing a pillow case project.

Course: **FCS/Health**

Grade: 8

Semester: 3

Description: Students in this course will learn knowledge and skills for healthier lives, focusing on physical, emotional, and social health. They will participate in the 8th grade Draw the Line, Respect the Line program where students will learn to identify situations that could challenge their personal limits and practice strategies to handle those situations. Students will also work in small groups in a lab situation while learning skills for food preparation and kitchen safety.

Course: **Reading**

Grade: 8

Semester: 3

Reading from various novels.

Course: **PE**

Grade: 7 &amp; 8

Semester: 3

Description: All classes will stress fitness, team cooperation, lifetime activities and building along with skill development.

Course: **Art**

Grade: 8

Sem: 3

Description: Art classes

**HIGH SCHOOL COURSE DESCRIPTIONS****(GRADES 9-12)****\*Denotes RAI (Regents Admission Index)****MATH**Course: **Pre-Algebra** #574

Grades: 9-12 Credit: 1 unit

Semester: 3 Prerequisite: None

Description: This course is designed to be a warm-up for Algebra. Topics covered will include, but not limited to number sense, the use of variables, patterns, problem-solving, slides and reflections, solving and graphing equations. This course is for the student that wants to take Algebra, but may not be prepared for it at this time.

Course: **\* Algebra 1** #12

Grades: 8-12 Credit: 1 unit

Semester: 3 Prerequisite: None

Required: (College Prep)

Description: Algebra 1 is the study of mathematics using variables for unknown quantities to describe patterns. Topics to be covered will include describing patterns, simplifying expressions, graphing and solving linear equations and inequalities, exploring properties of powers and roots and solving quadratic equations. Students will develop essential algebra skills through problem solving, communication, reasoning, making connections and constructing multiple connected representations. If a student plans on taking advanced mathematics, this course is a necessary requirement. The course is designed to conform to college requirements and to prepare a student for college or allow them to further their education beyond high school.

Course: **\* Algebra 2** #10

Grades: 10 - 12 Credit: 1 unit

Semester: 3 Prerequisite: Algebra 1

Description: Integrated Math courses emphasize the teaching of mathematics as problem solving, communication, and reasoning, and emphasize the connections among mathematical topics and between mathematics and other disciplines. Algebra 2 is a continuation of Algebra 1. Areas of study are to include the following topics: systems of linear sentences and, inequalities, polynomials and factoring, rational numbers and expressions, relations and functions, irrational numbers and quadratic equations, matrices and conics. The course is designed for college bound students.



Course: \* **Geometry** #11  
 Grades: 9 - 12 Credit: 1 unit  
 Semester: 3 Prerequisite: Algebra 1  
 Required: (Technical, College Prep)  
 Description: Geometry is the study of the relationships existing between points, lines, and planes; relationships between congruent and similar triangles, parallel lines, polygons, circles, circles to other sets of points and special relationships within a right triangle. The course is proof oriented to develop the idea of logical reasoning. The course is designed to conform to college requirements to prepare a student for college or allow them to further their education beyond high school.

Course: \* **Statistics** #599  
 Grades: 12 Credit: 1/2 unit  
 Semester: 2 Prerequisite: None  
 Description: Introductory statistics course is intended to introduce basic methods of statistical reasoning and probability. Students will develop the ability to summarize data, interpret data, and draw conclusions based on the data. Students may take this course before, after or in conjunction with pre-calculus.

Course: \* **Pre-Calculus** #7  
 Grade: 11-12 Credit: 1 unit  
 Semester: 3 Prerequisite: Geometry, Algebra 2 and Instructor Approval  
 Description: This course is designed to prepare students for calculus and other college level mathematics. Topics covered will include, but not limited to logic, analyzing functions, polynomials, rational functions, trigonometry, sequences, series, complex numbers, derivatives, probability, vectors and integrals.

Course: **Calculus** #503  
 Grade: 12 Credit: 1/2 unit  
 Semester: 1 Prerequisite: Pre-Calculus  
 Description: This course is designed to prepare students for calculus at the college level. Topics covered include functions and graphs, limits and continuity, derivatives, application of derivatives and integration. Pre-Calculus is a prerequisite for this course.

## LANGUAGE ARTS

\* Denotes RAI (Regents Admission Index)

Course: \* **English 1** #18  
 Grade: 9 Credit: 1 unit  
 Semester: 3 Prerequisite: None  
 Required  
 Description: English 1 is the first in a series of required English courses. Students continue work on vocabulary, reading and

writing. Literature units cover a variety of genres from short story, to drama, to the novel.

Course: \* **English 2** #17  
 Grade: 10 Credit: 1 unit  
 Semester: 3 Prerequisite: None  
 Required  
 Description: Students in English 2, second in a series of required English courses, study classic and contemporary literature selections in thematic units. English 2 offers a focus on research, literature, speaking, listening and technology.

Course: \* **English 3/ American Literature** #16  
 Grade: 11 Credit: 1 unit  
 Semester: 3 Prerequisite: None  
 Required  
 Description: English 3 is third in a series of required English courses. It concentrates on a thematic approach to American Literature. Emphasizing American authors and the values and concerns of Americans, the literature portion of this course includes reading strategies, matters of history, cultural growth, genre, and literary technique. There is also a novel unit included in this course. Independent reading is included in the year as well as units in language and writing.

Course: \* **Introduction to Communications** #19  
 Grade: 9-12 Credit: 1 unit  
 Semester: 3 Prerequisite: None  
 Elective  
 Description: This course enables students to understand and critically evaluate the role of media in society. Course content typically includes investigation of visual images, printed material, and audio segments as tools of information, entertainment, and propaganda: improvement of presentation and evaluation skills in relation to mass media: recognition of various techniques for delivery of a particular message: and, in some cases, creation of a media product. The course may concentrate on a particular medium.

Course: **Foundations of Writing** #157  
 Grades: 9-12 Credit: 1/2 unit  
 Semester: 1 Prerequisite: None  
 Elective  
 This is a one-semester course in which students develop and demonstrate knowledge of fundamental writing processes by composing paragraphs and essays, mastering basic sentence types and construction, and using standard American English grammar, usage, and mechanics. This class will start with the basics of writing and sentence structures and progress to writing essays and other works.

Course: \* **Creative Writing** #91  
 Grades: 9-12 Credit: 1/2 unit  
 Semester: 2 Prerequisite: None  
 Elective

Description: Creative Writing classes offer students the opportunity to develop and improve their technique and individual style in poetry, short story, drama, essays and other forms of prose. The emphasis of the class is on writing, although exemplary representations and authors may be studied to provide a fuller appreciation of the form and craft.

Course: **AP Literature and Composition** #140  
 Grades: 12 Credit: 1 credit  
 Semester: 3 Prerequisite: English 3

Elective: Advanced Placement/ College Level  
 Description: The course of AP Literature and Composition follows the curriculum described in the AP English Course Description published by the College Board. It is designed as a rigorous entry-level college course that entails reading and critical analysis of imaginative literature. As they read, students will consider a work's structure, style and theme, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. By the end of the year, students will have studied works written in several genres by both British and American authors from the sixteenth century to the present and will have written extensively and critically on what they have read. At the end of the course, students will have the option to take the AP Exam in Literature and Composition.

Course: **Film as Literature** #134  
 Grades: 9-12 Credit: ½ unit  
 Semester: 1 or 2 Prerequisite: None

Description: Students will investigate how ideas, values and concepts are connected and demonstrated through film. In analyzing film, students will examine elements of plot, setting, style, theme, figurative language and point of view. Class activities include viewing, listening, researching, and analyzing film. It is NOT just watching movies.

## FOREIGN LANGUAGE

\* Denotes RAI ( Regents Admission Index)

Course: \* **Spanish 1** #24  
 Grades: 9-12 Credit: 1 unit  
 Semester: 3 Prerequisite: None  
 Elective: (College Prep)

Description: Spanish 1 is a one year elective course open to students in grades 9-12. This course has no prerequisite however, a good knowledge of English grammar is helpful. Students are introduced to conversational phrases, vocabulary

and grammar required to express themselves orally and in writing on topics covered in class. Reading and listening skills are also practiced. Emphasis is also placed on understanding the customs and culture of Spanish-speaking people of a different background.

Language acquisition at this level is accomplished through active participation, repetition, memorization, and imitation of sound.

Course: \* **Spanish 2** #23  
 Grades: 10-12 Credit: 1 unit  
 Semester: 3 Prerequisite: Spanish 1  
 Elective: (College Prep)

Description: Spanish 2, a continuation of the beginning level class, is a one year elective course open to students in grades 10-12 who have successfully completed Spanish 1. The course further develops the listening, reading and writing skills learned in Spanish 1 and emphasizes the students abilities to express their ideas orally in the language. Students will also expand upon their knowledge of Hispanic people, customs and cultures. Various activities include conversation, composition, reading on culture, traditions and customs of Spanish-speaking people. Tapes, films, magazine articles, games and television supplement the textbook.

Course: \* **Spanish 3** #22  
 Grades: 11-12 Credit: 1 unit  
 Semester: 3 Prerequisite: Spanish 2  
 Elective: (College Prep)

Description: Spanish 3, a continuation of the second level, is a one year elective course open to students in grades 11-12 who have successfully completed Spanish 2. The course includes review and reinforcement of grammar and vocabulary from previous courses. Conversation and composition is based on material covered in class and topics of interest to students which help prepare them to use Spanish in daily living. Students will also be introduced to Hispanic literature.

Course: \* **Spanish 4** #21  
 Grade: 12 Credit: 1 Unit  
 Semester: 3 Prerequisite: Spanish 1-3  
 Elective

Description: Grammar skills from previous courses will be reviewed and reinforced at the beginning of Spanish 4. Students will build upon those skills with added emphasis on all skill areas: reading, writing, listening ; and speaking. Additional verb tenses will be studied, including the subjunctive, as well as added vocabulary and grammar skills. Cultural topics are included in the course of study.

**SOCIAL STUDIES****\* Denotes RAI (Regents Admission Index)**

Course: \* **Early U.S. History** (Colonization to 1890) **#31**

Grade: 10 Credit: 1 unit

Semester: 3 Prerequisite: None

**Required**

Description: U.S. History to 1890 is a required course offered at the 10th grade level. The student will view our country's history from colonization to 1890. Through the use of maps, graphs, time lines, personality profiles, essay tests, and research papers, the student will better understand this period and how it continues to affect policies today.

Course: \* **Modern U.S. History** (to present) **#30**

Grade: 11 Credit: 1 unit

Semester: 3 Prerequisite: None

**Required**

Description: The course U.S. History 2 (to present) is not only the study of how the United States became a world power but how the world has also changed in the span of almost a century—starting with the U.S. influencing the Western Hemisphere up to present time.

Course: \* **American Government** **#34**

Grade: 11 & 12 Credit: 1/2 unit

Semester: 1 or 2 Prerequisite: None

**Required**

Description: Government in the United States—at the national, state, and the local levels—is firmly based upon the concept of popular sovereignty. Quite obviously, a democratic government can succeed only to the extent to which its citizens participate and participate intelligently in the governing process. The course American Government is the study of the government of the United States, its development and functions, and the role of the citizen in his relationship to his government. This study includes government on the national, state, and local levels. American Government is required of all students to meet graduation requirements. It is offered in the junior & senior years.

Course: **Psychology** **#66**

Grades: 10-12 Credit: 1/2 Unit

Semester: 2 Prerequisite: None

**Elective**

Description: Psychology will be taught with an emphasis on personalities, motivation, emotions, growth & development, mental health, mental behaviors, and history of psychological thinkers. Students will be able to describe the relationship between psychology and other sciences. The class will cover early psychological thinkers of the 1700's to the contemporary psychologists of today. There will be an emphasis on

experimentation of human development from childhood and throughout life. Finally, we will look at the cognitive thought process, how our brain functions, and how psychologists have observed differences in human interaction, activities, and thoughts.

Course: \* **Sociology** **#330**

Grades: 9-12 Credit: 1/2 unit

Semester: 1 Prerequisite: None

**Elective**

Description: The course Sociology is a one-semester elective. Sociology is the study of human relationships, their causes, and their consequences. Through the study of sociology, students can develop a sociological perspective of their environment that will help them, as individuals, to live more effective lives in the society.

Course: **Ancient World History** **#83**

Grades: 9 -12 Credit: 1/2 unit

Semester: 1 Prerequisite: None

**Elective**

Description: This is an elective course that deals with the study of man from prehistoric times to Middle Ages. It covers the development of man both historically and culturally while showing the importance of environment in the shaping of man.

Course: **World Wars 1 & 2** **# 145**

Grades: 9-12 Credit: ½ unit

Semester: 2 Prerequisite: None

Description: In this class, we will look at World War 1 & 2 and how these wars brought attention to the entire world. We will look at government policies that caused countries to get involved, main causes, and talk about effects of major events. We will be able to take a deeper look into battles, strategies, and outcomes of certain events in these conflicts. We will watch documentaries, do research, and work on writing analysis skills throughout the course.

Course: **World Area Studies** **#306**

Grades: 9 -12 Credit: 1/2 unit

Semester: 1 Prerequisite: None

**Elective**

Description: This course examines the history, politics, economics, society, and/or culture of one or more regions of the world, such as Africa, Latin America, the former Soviet Union, Far East Asia, and the Middle East. These courses may focus primarily on the history of the region, or may take an interdisciplinary approach to the contemporary issues affecting the region. Furthermore, these courses may focus on one particular country, rather than focusing on a region or continent.

**Course: Modern World History #43**

Grades: 9 -12 Credit: 1/2 unit  
 Semester: 2 Prerequisite: None  
 Elective

Description: A continuation elective course of Ancient World History. Modern World History traces the evolution of western society from the Dark Ages through the 20th century.

**SCIENCE****\* Denotes RAI (Regents Admission Index)****Course: \* Biology #27**

Grade: 9 &10 Credit: 1 unit  
 Semester: 3 Prerequisite: General Science  
 Required

Description: This course will fulfill the requirements for a second science course, and will cover five kingdoms: monerans, fungi, plant, protist, and animal with emphasis on the animal kingdom. A study in cell structure, function, and reproduction, and a study of genetics will also be included. Lab activities will go with each unit. Dissection of prepared specimens will also be required. Students in second semester biology will be taught adult CPR from an American Red Cross certified instructor. Students will be required to pass both written and performance skills checks from the American Red Cross CPR program.

**Course: \* Global Science #598**

Grades: 11-12 Credit: 1 unit  
 Semester: 3 Prerequisite: General Science/  
 Elective Biology

Description: This integrated science class will expose students to aspects of life, earth and physical science and the connections between them. Students will focus on applying knowledge to real world problems. Topics may include issues that affect the environment such as population, resource management and pollution. Completion of projects and some writing assignments will be required.

**Course: Environmental Project Monitoring #143**

Grades: 12th Credit: 1 unit  
 Semester: 3 Prerequisite: Full year of Global Science

Description: This is an independent study class for those students who have completed the year long Global Science class. During this class students will work independently to maintain and improve the projects that other students have initiated in the past. Students will oversee the running of projects, complete necessary paper work and try to find ways to make each project sustainable for the future. This is a great class for students with difficult schedules who are looking at

environmental careers or have an interest in making the Central Community a greener place.

**Course: \* Anatomy & Physiology #25**

Grades: 11-12 Credit: 1 unit  
 Semester: 3 Prerequisite: Biology  
 Elective

Description: This course is for the students that desire to pursue their interests in human anatomy and physiology. The following human systems are covered: biochemistry, skeletal, muscular, circulatory, respiratory, sensory, digestive, nervous, excretory, and endocrine. The course is lecture discussion with labs for each unit. Special individual projects are also required. Dissection of various animal organs is done to compare to human organs.

**Course: \* Chemistry #26**

Grades: 11-12 Credit: 1 unit  
 Semester: 3 Prerequisite: 2 years of Elective:  
 (College Prep) sequential math

Description: Chemistry provides the student with an experimental and intellectual challenge. From the study of this course, the student will begin to see how chemistry is vital for further career goals and how a background in chemistry will make them a more educated citizen. This course is the study of materials, their composition, structure, and the changes they undergo. The purpose of this course is to introduce the science of chemistry to students in Grades 11-12. This will be accomplished by providing the student with basic facts and concepts in the framework of laboratory experiments, text material, review and evaluation.

**Course: \* Physics #29**

Grade: 12 Credit: 1 unit  
 Semester: 3 Prerequisite: Algebra 2  
 Elective: (College Prep)

Description: Of all sciences, physics shows us by a few simple and fundamental relationships how our universe operates. For example, how the space shuttle breaks into orbit can be explained from simple equations for acceleration and energy transfer. The primary goal of this course is to introduce how matter and energy are related through laboratory experiments and by means of a problem-solving approach. This physics course is essential for many occupations and is an important course of study to help us become more aware of how our high technological society operates.

**BUSINESS EDUCATION****Course: General Computer Applications #41**

Grades: 9-12 Credit: 1/2 unit  
 Semester: 1 Prerequisite: None

## Elective

Description: Designed for students with an interest in exploring the uses of the personal computer. General Computer Applications provides experience in a wide range of applications, including (but not limited to) word processing, spreadsheet, presentation, and database programs. More advanced topics, such as desktop publishing and internet subject matter, may also be included.

Course: **Business Computer Applications #45**

Grades: 9-12 Credit: 1/2 unit

Semester: 2 Prerequisite: General Computer

Elective Applications

Description: Business Computer Applications focuses on the areas of desktop publishing, presentation graphics, digital imaging, multimedia software, communications, and online documentation. Additionally, this course allows students to become familiar with job responsibilities and general characteristics of various career paths associated with these areas of study.

Course: **Computer Science Principles #111**

Grades 9-12 Credit: ½ unit

Semester: 3 Prerequisite: None

Description: Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. More than a traditional introduction to programming, it is a rigorous, engaging, and approachable course that explores many of the foundational ideas of computing so all students understand how these concepts are transforming the world we live in.

Course: **Multimedia Productions I & II #131**

Grades: 10-12 Credit: 1 unit

Semester: 3

Prerequisite: General Computer Applications,

Elective (Limited to 12 students)

Description: This course introduces photo editing, video editing and website design to engage students as they work individually and in teams to create unique products based on their individual creativity. The coursework involves the planning and production of interactive multimedia projects that integrate text, graphics, and video in the digital environment. This course utilizes PhotoShop, Illustrator, Dreamweaver, Flash, iMovie, GarageBand, and other digital design programs.

Course: **Personal Finance #97**

Grades: 10-12 Credit: 1/2 unit

Semester: 1 Prerequisite: None

Elective

Description: Personal Finance introduces students to personal money management. Emphasis is placed on banking accounts (checking, savings, and money market accounts), loans, investments, budgeting, and income tax calculations. Additional emphasis is placed on consumer protection, credit cards, and insurance (health, auto, home and life insurance).

Course: **Pre-Employment Strategies #114**

Grades : 9-12 Credit: ½ unit

Semester: 1 or 2 Prerequisite: None

A basic introduction to skills necessary for entry-level employment positions. Work experience with local employers is a key component of this course. A work performance rating and a National Career Readiness Certificate will be awarded based on WorkKeys testing results which is recognized in interviewing and compensation practices of some local employers.

\*\*This is a concurrent enrollment course. This will be a required course at Central School beginning with the class of 2021. In addition to high school credit, students can earn 3 college credits through NICC.

Course: **Intro to Accounting #39**

Grades: 11-12 Credit: ½ unit

Semester: 1 or 2 Prerequisite: None

Description: Basic accounting principles introduce beginning students to fundamental accounting concepts. The accounting cycle of journalizing transactions, posting, adjusting and closing entries, and the preparation of financial statements is emphasized for service and merchandising concerns.

Prerequisite: Qualifying placement score

\*\*This is a concurrent enrollment course. In addition to high school credit, students can earn 4 college credits through NICC.

**SOS I #50**

Course: **Student Office Services (SOS)**

Grades: 11-12 Credit: 1 unit

Semester: 1 & 2 Prerequisite: None

Elective Grade: Pass or Fail

Description: Designed to give the student a chance to refine basic office skills both involving the computer and technology and/or to give students an opportunity to explore an area of interest working as an assistant to school personnel.

Recommended for those students wishing to explore the possibilities of careers in business, computer technology, or education.

### SOS/OJT or Senior Release

In order to qualify for SOS/OJT or Work Release you must have a minimum of a 2.5 grade point average for the previous semester of attendance. This course is for seniors only.

## TECHNOLOGY EDUCATION

Course: **Introductory Career & Technical Education in Mechanics and Industrial Tech** # 58

Grades: 9-12 Credit: 1 unit

Semester: 3 Prerequisite: None

Elective

Description: This is a course designed to give the students a basic understanding of the different areas of technology. We will look at metals by doing some basic welding and sheet metal work and look at the safety issues involved. We will also do a unit on electricity with electron theory and circuit analysis and also do some basic wiring of switches and lights. The third phase of the program will have the students doing a basic woodworking project that utilizes manufacturing methods to be able to read prints and utilize jigs and fixtures. The final unit will deal with construction with an emphasis on carpentry.

Course: **Architectural CAD** #60

Grades: 10-12 Credit: 1/2 unit

Semester: 2 Prerequisite: Mechanical Drafting

Elective

Description: This course uses the architectural design software SoftPlan that is popular with many of the leading construction companies in the area. Students will design floor plans as well as all other aspects of designing a home or commercial building.

Course: **Mechanical CAD** #52

Grade: 10-12 Credit: 1/2 unit per semester

Semester: 2 Prerequisite: None

Elective

Description: Mechanical CAD utilizes the Pro Desktop design software. This program is a lead in for programs such as Pro-Engineering used by John Deere in their manufacturing. The students will utilize the text to work at their own pace and then branch out to designing projects of their own.

Course: **Construction Project Basics** #595

Grades: 9-12 Credit: 1/2 unit

Semester: 1 Prerequisite: None

Elective

Description: In this course students will learn the vocabulary,

symbols, and formulas used commonly in construction. They will learn to use hand and power tools safely and be able to recognize hazards to create a safe working environment. They will learn about the use and properties of various construction materials.

Course: **Construction Project Application** #594

Grades: 9-12 Credit: 1/2 unit

Semester 2 Prerequisite: Instructor approval

Elective

Description: This course will provide the students opportunity to apply basic construction processes and techniques to a real world setting. They will use construction and planning skills to build and complete a project. They will interpret and use technical drawings to build a project to specifications.

Course: **Construction Technology Basics** #593

Grade: 9-12 Credit: 1/2 unit

Semester: 1 Prerequisite: None

Elective

Description: This introductory course will give students the information needed to have a basic background of the construction industry. We will be giving students the basic skills, knowledge, and abilities required to be employed in the construction industry. We will emphasize safety on the job site and basic OSHA requirements. We will also be learning about Construction Math, hand tools, power tools, print reading, as well as communication and employability skills. We will spend some time on basic rigging for lifting and securing objects by knowing the proper lift points and balance.

Course: **Cabinetmaking** # 113

Grades: 11-12 Credit: 1 unit

Semester: 3 Prerequisite: Construction Project

Basics and Application

Description: This is an intermediate level course, which provides experience in constructing cases, cabinets, counters, and other interior woodwork. Students learn to distinguish between various types of furniture construction and their appropriate application. Various woodworking machines and power tools for cutting and shaping wood are introduced and used. Cabinetmaking will cover the different methods of joining pieces of wood, how to use mechanical fasteners, and how to attach hardware. Students will have an opportunity to construct a cabinet that has a drawer and door in it. Cabinet joinery, stile and rail assembly, panelized construction, and plastic laminates are some of the topics emphasized. **This class will be taught at Guttenberg (Clayton Ridge HS), This class will involve three periods of class time.**

Course: **Construction 1 & 2** # 114

Grades: 11-12 Credit: 1 unit

Semester: 3 Prerequisite: Construction Project  
Basics and Application

Description: This advanced level class consists of blueprint reading, rough framing procedures, and some finishing work. Emphasis will be on studying residential blueprints, cost estimating, and house building procedures. Students will learn how to read construction blueprints first semester. Second semester students will learn how to lay out walls and rafters, shingle, apply sheathing and siding, and install doors and windows. All students will get involved with actually building a small structure such as a garage or utility shed. **This class will be taught at Guttenberg (Clayton Ridge HS). This class will involve three periods of class time.**

## FAMILY & CONSUMER SCIENCES

Family and Consumer Science will help prepare you for family life, work life, and careers in family and consumer sciences. Family and Consumer Sciences education incorporates **STEAM (Science, Technology, Engineering, Art, Math)** concepts and skills.

Course: **Food Science 1** #37

Grades: 10-12 Credit: 1/2 unit

Semester: 1 Prerequisite: None

Elective

Description: Analyze the **science** of nutrition and food preparation. Experience **technology** in food preparation experiences. Compare and contrast how **engineering** influences the design of equipment, and plays a role in the foods we eat. Create through the **art** of cooking. Utilize **math** skills in the real world through measuring and calculating costs.

\*Students successfully completing the Nutrition competencies listed on the course syllabus may seek advanced standing in Iowa Community colleges Hospitality/Culinary Arts programs.

Course: **Food Science 2** #79

Grades: 10-12 Credit: 1/2 unit

Semester: 2 Prerequisite: Food Science 1

Elective

Description: Continue enhancing your STEAM skills with this course.

^^ Successful completion of Food Science 1 and Food Science 2 may lead to an Articulated Agreement with DMACC's Food Preparation I course.

Course: **Child Health, Safety & Nutrition** #73  
(NICC Class: ECE:133)

Grades: 11-12 Credit: 1/2 unit

Semester: 1 Prerequisite: none

Elective

Description: This course emphasizes the nutritional requirements and needs of young children, the interrelationship & importance of health, safety, & nutrition in early childhood programs, & how children can be actively involved in their own nutrition, safety, & health education. Students will have field experience working with children during the semester. **This course offers 3 College Credits that can be transferred to other colleges.**

Course: **Infant/Toddler Care & Education** #38  
(NICC Class: ECE:221)

Grades: 11-12 Credit: 1/2 unit

Semester: 2 Prerequisite: none

Elective

Description: This course is a study of the growth & development of infants and toddlers, & issues critical to their care. Emphasis is placed on development, health & safety, developmentally appropriate practices, curriculum, & environments. Theoretical perspectives, trends in American families, Infant/Toddler Programs, & research implications are included. Students will have field experience working with children during the semester.

**This course offers 3 College Credits that can be transferred to other colleges.**

Course: **Curriculum 1 (NICC ECE:158)** #80

Grades: 11-12 Credit: 1/2 unit

Semester: I Prerequisite: none

Description: Focuses on the development, implementation, and assessment of appropriate environments and curricula for young children ages three through eight. Students prepare to utilize developmentally appropriate practices in a context of family and culturally sensitive care. Emphasis is on understanding children's developmental stages and developing appropriate learning opportunities, interactions, and environments in the areas of dramatic play, art, music, fine and gross motor play.

**This course offers 3 College Credits that can be transferred to other colleges.**

Course: **Child Growth & Development** #81  
(NICC ECE:170)

Grades: 11-12 Credit: 1/2 unit

Semester: 2 Prerequisite: None

Description: Reviews typical and atypical development of children from conception to adolescence in all developmental domains. Examines interactions between child, family, and

society within a variety of community and cultural contexts. Examines theories and evidence-based practices associated with understanding and supporting young children. NICC ECE:170

***This course offers 3 College Credits that can be transferred to other colleges.***

Course: **Textiles** #575  
 Grades: 9-12 Credit: 1/2 unit  
 Semester: 1 Prerequisite: None  
 Elective

Description: Analyze the **science** of fibers and fabrics. Experience **technology** in operating a computerized sewing machine. Explore **engineering** in designing textile projects. Create through the **art** of designing for personal expression. Utilize **math** skills in the real world while measuring and sewing.

\*Students successfully completing the Textile competencies listed on the course syllabus are eligible to receive articulated credit for the Sewn Products Analysis (APP160, 3 credits) at Iowa Valley Community College.

Course: **Introduction to Design** #201  
 Grades: 9-12 Credit: 1/2 unit  
 Semester: 2 Prerequisite: None  
 Elective

Description: Create projects using the **science** of color. Utilize **technology** to design interior and fashion projects. Analyze of the impact of **engineering** in choosing tools and equipment used in designing, as well as in designing furniture. Create through the **art** of designing for personal expression. Learn about **math** skills in the real world through creating floor plans and fashion design projects.

## Health

The purpose of health education is to help each student protect, improve, and maintain physical, emotional, and social well-being.

Course: **Life Changes 1** #592  
 Grades: 9-12 Credit: 1/2 unit  
 Semester: 1 Prerequisite: none  
 Elective

Description: Students will learn to evaluate and enhance their personal health using life skills, individual and group activities, technology, and speakers. Topics to be covered first semester will include: Leading a Healthy Life, Skills for a Healthy Life, Mental Health, Stress, Nutrition for Life, Physical Fitness for Life, Weight Management and Eating Behaviors, Healthy Relationships, and Violence and Abuse.

Course: **Life Changes 2** #44  
 Grades: 9-12 Credit: 1/2 unit  
 Semester: 2 Prerequisite: none  
 Elective

Description: Students will learn to evaluate and enhance their personal health using life skills, individual and group activities, technology, and speakers. Topics to be covered second semester will include: Understanding Drugs and Medicines, Alcohol, Tobacco, Illegal Drugs, Preventing Infectious Diseases, Lifestyle Diseases, STI's, Other Diseases, Environmental Health, Consumer Health and Health Care.

## AGRICULTURE SCIENCE

Course: **Ag Small Engine Fundamentals** #596  
 Grades: 11-12 Credit: 1/2 unit  
 Semester: 1 Prerequisite: None  
 Elective

Description: This course will allow the student to learn the basic concepts and uses for 2-cycle and 4-cycle engines. We will be using both a text and hands on experience to learn about the components of an internal combustion engine. Part of this class will be to take an engine apart and put it back together properly with the aid of a repair manual. It will require students to be able to find information in a manual and then apply that knowledge in the shop. We will also be required to make precise measurements using micrometers and calipers and be able to interpret the data.

Course: **Ag Welding & Metals** #84  
 Grades: 10-12 Credit: 1/2 unit  
 Semester: 2 Prerequisite: None  
 Elective

Description: Metals Production is an introductory course dealing with metals, their uses and the production of metals, as well as the fabrication methods used in industry. Areas of study will include sheet metal fabrication, forging and heat treating, foundry, machining on the metal lathe, and welding with the arc and MIG welders as well as fusion welds with the oxy-acetylene torches. The students will have the opportunity to make a basic welding project if they desire.

Course: **Ag Mechanics** #75  
 Grades: 10-12 Credit: 1/2 unit  
 Semester: 2 Prerequisite: None  
 Elective

Description: This will be a diverse course dealing with aspects of agricultural equipment maintenance and repair. We will also explore career opportunities in agricultural mechanics. The class will utilize both classroom and shop time and projects may range from equipment restoration to general repair.



**Course: Plant and Animal Production #35**

Grades: 9-12 Credit: 1/2 unit  
Semester: 1 Prerequisite: None

Elective

Description: This course is designed to give students a basic understanding of plant and animal production. We will look at how plants grow and focus on the major grain crops in our area as well as some of the turf and garden plants. We will look at fertility and soil types in our area.

On the animal side, we will learn about the animals that we deal with the most in the agriculture community of northeast Iowa. We will look at both beef and dairy cattle as well as swine and sheep. We will spend some time also looking at some alternative enterprises within the species such as goats, both with meat and dairy, and production for niche markets such as organic.

**FINE ARTS****Course: Art Fundamentals #42**

Grades: 9-12 Credit: 1 unit  
Semester: 1 or 2 Prerequisite: None

Elective

Description: This course offers students an introduction to fundamental concepts of art. Students will explore Elements of Art and Principles of Design through lessons using problem solving skills in a variety of 2D and 3D media: drawing, painting, printmaking, collage, recycled materials, and clay. Students will be expected to complete weekly sketchbook assignments and participate in a public display of work. Students will meet National and State Standards for Visual Art.

**Course: Two Dimensional Art #585**

Grades: 9-12 Credit: 1/2 unit  
Semester: 1 Prerequisite:

Description: This course offers students a variety of drawing, painting, and printmaking media to develop technical proficiency, observational skills, and personal style. Students will demonstrate an increasing art vocabulary through reflective and critical analysis of their own work and the work of others. Students will be expected to complete weekly sketchbook assignments and participate in a public display of work. Students will meet National and State Standards for Visual Art.

**Course: Three Dimensional Art #584**

Grades: 9-12 Credit: 1/2 unit  
Semester: 2 Prerequisite: None

Description: This course offers students a visual arts experience in the concepts of three-dimensional art. Students will build skills and creative ideas, while exploring a variety of media, including clay, plaster, wire, and recycled materials.

Within each unit of study, various artists and art styles will be covered as well as different sculptural techniques. Students will meet National and State Standards for Visual Art.

**Course: Independent Art Study #85**

Grades: 11-12 Credit: 1/2 unit  
Semester: 1 and/or 2 Prerequisite: Students who have previously taken Art Fundamentals Sem 1 & Sem 2, Two Dimensional Art, and Three Dimensional Art with a passing grade.

**Description:** This course is offered to serious art students willing to perform at an advanced level in the Visual Arts. Students must have approval from the art teacher before registering for this course. Once approved, the student will sign a contract created by the art teacher stating the course objectives, expectations, and responsibilities for both the student and teacher. The student must meet regularly with teacher for review and critique of art work. In conjunction with art creation, student will visit an art gallery/museum and write a 2 page paper of an art work, interview a local artist, and show his/her work at area High School Art Shows.

1/2 Credit per semester: 3 hrs of researching, journaling, creation, and reflection per week.

**Course: Computer Graphics #98**

Grades: 9-12 Credit: 1 unit  
Semester: 3 Prerequisite: None

Elective: May be taken for two years  
(Limited to 10 students)

Description: Computer Graphics courses provide students with the opportunity to explore the capability of the computer to produce visual imagery and to apply graphic techniques. Students work with desktop publishing software and image-editing software with a focus on yearbook production. This class may be taken for two years.

**MUSIC****Course: Band #69**

Grades: 9-12 Credit: 1 unit  
Semester: 3 Prerequisite: None

Elective

Description: The band course will include marching and concert band. The marching band's primary purpose will be to provide half-time entertainment for home football games. The concert band's primary purpose will be the development of the skills and techniques necessary for performances in a large group. Students in the band course will be expected to spend one period per week in individual study with the instructor. The activities of the band include parade marching, three band concerts, solo and ensemble studies, pep band and band support projects such as the carnival.

Course: **Chorus** #67  
 Grades: 9-12 Credit: 1 unit  
 Semester: 3 Prerequisite: None  
 Elective

Description: The High School Choral Program will strengthen musical and performance skills through the use of the singing voice. Correct vocal production, choral technique, basic music theory, and ensemble performance will be taught. Students will have one lesson per cycle with the instructor. Performances will include a Fall Concert, the UIC Vocal Festival, a Winter Concert, Carnival, Large Group Contest, and the Spring Awards Concert. Students are also given the opportunity to participate in the State solo and ensemble contest which is held in the Spring. Various auditioned groups will also be available including: Winter Madrigal, Contest Madrigal, and Chamber Choir. Students may audition for selection into various honor choirs, including All-State.

## PHYSICAL EDUCATION

Course: **Physical Education** #1  
 #1 **Grade 9**  
 #1 **Grade 10**  
 #1 **Grade 11**  
 #1 **Grade 12**  
 Grades: 9-12 Credit: 1/2 unit  
 Semester: 3 Prerequisite: None  
 Required

Description: Opportunity will be given to each student to perfect skills in some form of physical activity, to develop physical fitness and to meet physical activity needs. Both team and individual sports as well as fitness and lifetime activities. These experiences are designed to develop knowledge, understanding and attitudes which result in behaviors to maintain not only physical but also social, emotional and mental health. Activities include but are not limited to; archery, badminton, table tennis, soccer, fishing, football, bowling, volleyball, basketball, outdoor games, floor hockey, softball, frisbee, fitness testing. Standards Based Grading will be used to assess each student according to the SHAPE America Standards. Knowledge and Physical Skill Assessments will be used to evaluate each student.

### Physical Education Exemption

All students shall be required to participate in physical education. A student may however be excused from this requirement for the following reasons:

- \*Academics: student's schedule is full with no room for PE
- \*Athletic: participating in an interscholastic athletic program
- \*Religious: conflicts with student's religious beliefs
- \*Medical: medical excuse

**The Physical Education Exemption Request form may be requested from the Central 5-12 or Business Office.**

## ADVANCED PLACEMENT, ONLINE

Course: **Advanced Placement, Online**  
 Grade: 11 and 12  
 Semester: 3 (2 semester courses)  
 Credit: 1 unit  
 AP Biology, AP Calculus AB, AP Chemistry, AP English Language & Composition, AP English Literature & Composition, AP Statistics, AP Spanish, AP U.S. History

Semester: 2 (1 semester courses)  
 Credit: ½ unit  
 AP Macroeconomics, AP Microeconomics, AP U.S. Government, AP Psychology,  
**College Credit:** college credit may be earned by scoring highly on separate "AP Exam" in May (fee required for exam).

**Prerequisite:** High GPA: Excellent study skills; Motivation for college-level work: For Calculus, Chemistry: High school course or aptitude test.

Description: Advanced Placement (AP) courses are college-level courses taken at the high school level. Central students are able to take these on-line courses through a grant, so there is no cost to the student, except for the exam. On-line enrollment must be done by an administrator. One period daily is required: daily access to a computer for outside assignments is recommended.

More information:

<http://www2.education.uiowa.edu/belinblank/students/ioapa/>

## NICC HEALTH CONSORTIUM

**Students must enroll as an NICC student and take either the Accuplacer Entrance Exam or have an ACT score.**

Course: **Medical Terminology / HIT140** #582  
 Grades: 11 & 12 Credit: 1 unit  
 (24 Weeks) Credit: 4 NICC College  
 Credit Hours

Recommendation: has successfully completed Biology, Algebra I and Chemistry. This college-level course involves the study of medical terminology as the language of medicine with emphasis on spelling, pronunciation, and usage. Will transfer into Radiologic Tech, Health Info Tech, Medical Lab Tech, Surgical Tech, Medical Transcription and a support course for Respiratory Therapy, Nursing and Massage Therapy.

Course: **Nurse Aide I & II / HSC172** #590  
 Grades: 11 & 12 Credit: 1 unit  
 Semester: 1 or 2 Credit: 3 NICC Credits  
 Description: This course is designed to provide the knowledge and practical skills necessary to provide care and service to residents in long-term care facilities by preparing individuals to become efficient, caring members of the health-care team. Thirty hours of theory will consist of classroom lecture regarding the cares provided by a Certified Nurse Aide. Fifteen hours in a laboratory setting will provide "hands on" experience of competencies prior to attending 30 hours in a clinical setting. The clinical experience provides students the opportunity to experience resident care in the long-term care environment. Upon successful completion of this course students will be eligible for state licensing and can test out of skills. Prerequisite Course for: NICC nursing clinical coursework and several other Nursing programs.

Course: **Nutrition / PNN270** #581  
 Grades: 11 & 12 Credit: 1/2 Unit  
 Semester 2 Credit: 1 NICC Credit Hour  
 Description: Nutrition emphasizes a practical knowledge of good nutrition and some knowledge of diet therapy. Includes a background of adequate and accurate information on basic nutritional needs of the body. This course is required for Nursing & Massage Therapy.

Course: **Dosage Calculations / PNN200** #65  
 Grades: 11 & 12 Credit: 1/2 Unit  
 8 Weeks Credit: 1 NICC Credit Hour  
 Description: Dosage Calculations includes a review of fractions and decimals, conversions of metric, apothecary and household units and computations of drug dosages. The classification of drugs affecting each body system will be an integral part of this course. Dosage & Calculations is a required course for Nursing.

Course: **Intro to Health Occupations / HSC104** #583  
 Grade: 10-12 Credit: 1/2 Unit  
 Semester: 2 Credit: 2 NICC Credit Hours  
 Description: Course includes exploration of health career pathways in therapeutic, diagnostic, health informatics, and support services. Course will emphasize need for communication and teamwork as well as the technical skills necessary in the health care workforce.

## CONTRACTED CLASSES between Northeast IA Community College and Central School

Course: **Child Health, Safety & Nutrition/ ECE133** #73  
 Grades: 11-12 Credit: 1/2 unit  
 Semester: 1 Prerequisite: none  
 Elective

Description: This course emphasizes the nutritional requirements and needs of young children, the interrelationship & importance of health, safety, & nutrition in early childhood programs, & how children can be actively involved in their own nutrition, safety, & health education. Students will have field experience working with children during the semester. NICC Class: ECE:133  
***This course offers 3 College Credits that can be transferred to other colleges.***

Course: **Infant/Toddler Care & Education / ECE221** 38  
 Grades: 11-12 Credit: 1/2 unit  
 Semester: 2 Prerequisite: None  
 Elective

Description: This course is a study of the growth & development of infants and toddlers, & issues critical to their care. Emphasis is placed on development, health & safety, developmentally appropriate practices, curriculum, & environments. Theoretical perspectives, trends in American families, Infant/Toddler Programs, & research implications are included. Students will have field experience working with children during the semester. NICC Class: ECE:221  
***This course offers 3 College Credits that can be transferred to other colleges.***

Course: **Curriculum 1 (NICC ECE:158)** #80  
 Grades: 11-12 Credit: ½ unit  
 Semester: 1 Prerequisite: none  
 Elective

Description: Focuses on the development, implementation, and assessment of appropriate environments and curricula for young children ages three through eight. Students prepare to utilize developmentally appropriate practices in a context of family and culturally sensitive care. Emphasis is on understanding children's developmental stages and developing appropriate learning opportunities, interactions, and environments in the areas of dramatic play, art, music, fine and gross motor play. NICC ECE:158  
***This course offers 3 College Credits that can be transferred to other colleges.***

**Course: Child Growth & Development #81  
(NICC ECE:170)**

Grades: 11-12                      Credit: ½ unit  
Semester: 2                      Prerequisite: None  
Description: Reviews typical and atypical development of children from conception to adolescence in all developmental domains. Examines interactions between child, family, and society within a variety of community and cultural contexts. Examines theories and evidence-based practices associated with understanding and supporting young children. NICC ECE:170

***This course offers 3 College Credits that can be transferred to other colleges.***

**Course: Psychology of Human Relations #51**

Grades: 9-12                      Credit: 1/2 unit  
Semester: 1 or 2                      Prerequisite: None  
Description: Psychology of Human Relations is a dual credit college high school class with NICC taught by Mrs. Metcalf. It covers all types of interactions among people, their conflicts, cooperative efforts, and group relationships. It is the story of those beliefs, attitudes, and behaviors that cause interpersonal conflict in our personal lives and in work related situations.

***This course offers 3 College Credits that can be transferred to other colleges.***

**Course: Developmental Psychology PSY 121 #113**

Grades: 11-12                      Credit: 1/2 unit  
Semester: 2                      Prerequisite: None

Description: Developmental Psychology is a dual credit college high school class with NICC taught by Mrs. Metcalf. An introductory course in human growth and development throughout the life span. The developmental stages include prenatal, infancy/toddlerhood, early and middle childhood, adolescence, early, middle, and late adulthood, and death, dying and bereavement. Human development looks at the physical, cognitive, social and emotional aspects of development at each developmental stage. Imbedded in each stage are the theories and theorists of each aspect of development. **3 NICC College Credits**

***This course offers 3 College Credits that can be transferred to other colleges.***

**Course: Welding Fundamentals #33**

Grades: 10-12                      Credit: 1/2 unit  
Semester: 2                      Prerequisite: None

This class will be taught by a certified instructor from Mobile Track Solutions in the Central Industrial Arts area. This class will run from 8:00 a.m. to 8:58 a.m. Monday - Thursday and will focus on the welding techniques that are used in the industrial world. This course offers **2 NICC College Credits.**

**Course: Industrial Technology Cabinet Making Class**

Grades: 10-12                      Credit: 1 unit  
Semester: 1                      Prerequisite: None

This class will be taught at the Clayton Ridge School and is part of the NICC Construction Diploma Program. It is a class to develop skills that can be used for a lifetime around the home or workplace, with projects individualized to student interest with approval of the instructor.

***This course offers 5 NICC College Credits***

**Online High School & College Credits at Central**

**\* Any student wishing to register for Online courses should visit with the counselor, Alyssa Cobie-Nuss.**

