CLAYTON
RIDGE HIGH SCHOOL
REGISTRATION
2019-2020
High school students are in the middle of one of the most exciting times of their lives. Get involved! The day is rapidly approaching when you will be entering the job market. Most of you will spend the majority of the rest of your life on the job. The job you get and how happy you will be with it depends on your interests and preparation. The courses taken in high school should be used to explore your interests and challenge your ability. You should plan your courses with your future in mind. If you would like help in deciding which courses to take, see Mrs. Hansel. The guidance office is a good place to go if you would like information on occupations, the military, trade schools, business or tech schools, colleges and universities, or to try out some new ideas on someone. The counseling office can also help you with school or personal issues.

Registration and Scheduling

Rules & Regulations

The registration process is an important part of the educational process. Once students have registered for classes for the upcoming year, many decisions are made. The school assigns teachers, develops curriculum, and purchases instructional materials to make the best use of resources once registration is complete. For these reasons, we have developed the following Rules and Regulations:

1. Sophomores, juniors, and seniors are eligible to request a schedule change. Freshman may not change schedules.

2. Students should not request to add or drop a course unless they have had a change in their career plan or personal interests, or a crisis management plan is in order. Students will have five school days at the beginning of the year to make this determination.

3. Requests to add or drop a second semester course should be made during the first five days of the semester.

4. Students may not add or drop a yearlong course at the end of first semester unless the student failed the first semester, or he or she has the approval of the teacher, the principal and the guidance counselor.

Students sign up for courses. School personnel schedule students into these courses in such a way as to maintain balanced sections. Students will not be granted a schedule change in order to be with friends, to change teachers, or to change periods of the day. Students register for six courses each semester, plus the physical education course. Students attempting to drop a course after the first five days of the semester will receive a failing grade on their permanent record. A definition of one unit of credit is satisfactory completion of a course that meets daily during one semester.

Academic Progress

The Clayton Ridge School District believes that academic success is very important. Our policy is to report progress grades to parents at midterm and the end of each quarter. Our online grading system also allows parents to check student progress daily. Final grades of each semester will be governed by the state rules. Academic eligibility for extra-curricular activities is determined per guidelines outlined in the student handbook.

Early Graduation

Students shall file a letter of intent for early graduation by September 15 of their senior year. The letter should be presented to the counselor for review and then forwarded to the principal. The principal will present the request to the school board for final approval.
Earning College Credit During High School

**Post-Secondary Enrollment Option (PICC):**
This option was implemented by the state legislature several years ago. The purpose of the legislative act is to promote rigorous academic or vocational/technical standards by allowing students to enroll part-time in college courses.

These options are open to eleventh and twelfth grade students or to ninth or tenth grade students identified as “talented and gifted.” Students may not enroll in courses that are comparable to high school offerings. Students are limited to part-time enrollment, and they may be required to earn a certain score on the Accuplacer or ACT test or be required to complete a high school prerequisite prior to enrolling in the college course.

Clayton Ridge reimburses the post-secondary institution up to $250 for every student enrolled in each post-secondary enrollment options course. This amount is used to pay for tuition, textbooks, and other course fees. Students must notify their counselor of their intent to enroll in a post-secondary enrollment course prior to the start of the semester in which the course will be taken. Students will earn dual credit (both high school and college credit) for these courses if approved. Students may not drop or fail these courses without reimbursing the school district all of the costs of the particular course. All current courses that are PSEO in the curriculum guide will be identified as such with the title of “PSEO” following the course title.

**Contracted Courses:**
This option allows students to earn college credit through courses taught at Clayton Ridge High School by CRHS staff members meeting the qualifications set by the post-secondary institution. Students in these courses can earn dual credit (both high school and college credit) upon successful completion of the course. Clayton Ridge reimburses the post-secondary institution approximately $50 per course. Students may not drop or fail these courses without reimbursing the school district all of the costs of the particular course. All current courses that are contracted in the curriculum guide will be identified as such with the title of “contracted” following the course title.

**Guidelines:**
The student or parent/guardian may be required to purchase materials and equipment that becomes the property of the student, and the family is responsible for any necessary transportation. This program is designed to promote rigor in the curriculum decisions by students and not to ensure that they are transferable credits to any college program.

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**Graduation Requirements**

**46 Credits Required**

**Recommended Classes in required areas:**

- **Physical Education**
  - 4.0 credits
  - Physical Education OR Strength & Conditioning

- **English**
  - 8.0 credits
  - English I
  - English II
  - English III
  - English IV

- **Science**
  - 6.0 credits
  - Physical Science
  - Biology
  - Chemistry OR Environmental Science

- **Social Studies**
  - 6.0 credits
  - World History OR Geography
  - American History
  - American Government

- **Mathematics**
  - 6.0 credits
  - Algebra I
  - Geometry
  - Algebra II

- **Fine Arts**
  - 1.0 credit
  - Instrumental Music, Vocal Music, OR Visual Arts

- **Vocational Education**
  - 1.0 credit
  - Courses from Agricultural Science, Business, Family & Consumer Science, OR Industrial Technology

- **Electives**
  - 14.0 credits
SENIOR YEAR PLUS
(Clayton Ridge High School College Credit Requirements)

The intent of the senior year plus statute is to ensure all students in Iowa have increased access to courses that have the potential to generate college credit while in high school. The statute requires all students enrolling in college credit courses be proficient in reading, math, and science. At Clayton Ridge High School college credit classes include:

- Concurrent enrollment courses (HS & College credit)
- Post-secondary Enrollment Options Act courses (PSEO)
- Iowa Communication Network courses (ICN)
- Iowa Learning Online courses (ILO)

APPROVED CRITERIA ENSURING READING, MATH & SCIENCE PROFICIENCY:

1. The student is proficient on the reading comprehension, math concepts & problem solving, and science portions of the Iowa Assessments.

If Criteria #1 is met, there is no need for further action to determine proficiency.
If Criteria #1 is not met, the Alternate Measures of Proficiency below may be used.

2. The student is proficient on the Accuplacer Test. Proficiency is a score above the developmental level as determined by the partner community college (NICC test requirement is a score of 4 for Foundations of Writing and an 6 for College Composition). The student passing the Accuplacer Test would still need to prove proficient in science on the ITED, MAP, ACT tests or specified course grades.

3. The student received a C- grade or better in each related high school courses (Reading-Am. Literature, Math-Algebra 1, Science-Biology). These courses correlate to the Iowa Assessments performance level descriptors.

Note: Proficiency can be met with any combination of these pre-approved criteria but must demonstrate proficiency in the areas of reading, math, and science using their most recent test score or grade.

<table>
<thead>
<tr>
<th>Student Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reading</td>
</tr>
<tr>
<td>Indicator:</td>
</tr>
<tr>
<td>Math</td>
</tr>
<tr>
<td>Indicator:</td>
</tr>
<tr>
<td>Science</td>
</tr>
<tr>
<td>Indicator:</td>
</tr>
</tbody>
</table>
NCAA Division I Initial-Eligibility Requirements

Core Courses: (16)

- **Initial full-time collegiate enrollment before August 1, 2016:**
  - Sixteen (16) core courses are required (see chart below for subject-area requirements).
- **Initial full-time collegiate enrollment on or after August 1, 2016:**
  - Sixteen (16) core courses are required (see chart below for subject-area requirements).
    - Ten (10) core courses completed before the seventh semester; seven (7) of the 10 must be in English, math or natural/physical science.
    - These courses/grades are “locked in” at start of the seventh semester (cannot be repeated for grade-point average (GPA) improvement to meet initial-eligibility requirements for competition).
  - Students who do not meet core-course progression requirements may still be eligible to receive athletics aid and practice in the initial year of enrollment by meeting academic redshirt requirements (see below).

Test Scores: (ACT/SAT)

- Students must present a corresponding test score and core-course GPA on the sliding scale (see Page No. 2).
  - SAT: critical reading and math sections.
    - Best subscore from each section is used to determine the SAT combined score for initial eligibility.
  - ACT: English, math, reading and science sections.
    - Best subscore from each section is used to determine the ACT sum score for initial eligibility.
- All ACT and SAT attempts before initial full-time collegiate enrollment may be used for initial eligibility.
- Enter 9999 during ACT or SAT registration to ensure the testing agency reports your score directly to the NCAA Eligibility Center. Test scores on transcripts will not be used.

Core Grade-Point Average:

- Only core courses that appear on the high school’s List of NCAA Courses on the NCAA Eligibility Center’s website (www.eligibilitycenter.org) will be used to calculate your core-course GPA. Use this list as a guide.

**Initial full-time collegiate enrollment before August 1, 2016:**
- Students must present a corresponding test score (ACT sum score or SAT combined score) and core-course GPA (minimum 2.000) on Sliding Scale A (see Page No. 2).
- Core-course GPA is calculated using the best 16 core courses that meet subject-area requirements.

**Initial full-time collegiate enrollment on or after August 1, 2016:**
- Students must present a corresponding test score (ACT sum score or SAT combined score) and core-course GPA (minimum 2.300) on Sliding Scale B (see Page No. 2).
- Core-course GPA is calculated using the best 16 core courses that meet both progression (10 before seventh semester; seven in English, math or science; “locked in”) and subject-area requirements.

<table>
<thead>
<tr>
<th>DIVISION I Core-Course Requirement (16)</th>
<th>DIVISION I – 2016 Qualifier Requirements</th>
<th>DIVISION I – 2016 Academic Redshirt Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 years of English</td>
<td><em>Athletics aid, practice, and competition</em></td>
<td></td>
</tr>
<tr>
<td>3 years of math (Algebra I or higher)</td>
<td>16 core courses</td>
<td></td>
</tr>
<tr>
<td>2 years of natural/physical science</td>
<td>o Ten (10) core courses completed before the start of seventh semester; seven (7) of the 10 must be in English, math or natural/physical science.</td>
<td></td>
</tr>
<tr>
<td>(1 year of lab if offered)</td>
<td>o “Locked in” for core-course GPA calculation.</td>
<td></td>
</tr>
<tr>
<td>1 year of additional English, math or</td>
<td>o Corresponding test score (ACT sum score or SAT combined score) and core-course GPA (minimum 2.300) on Sliding Scale B (see Page No. 2).</td>
<td></td>
</tr>
<tr>
<td>natural/physical science</td>
<td>o Graduate from high school.</td>
<td></td>
</tr>
<tr>
<td>2 years of social sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 years of additional courses (any</td>
<td></td>
<td></td>
</tr>
<tr>
<td>area above, foreign language or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>comparative religion/philosophy)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Division II Initial-Eligibility Requirements

Core Courses

- **Division II currently requires 16 core courses.** See the chart below.
- **Beginning August 1, 2018,** to become a full or partial qualifier for Division II, all college-bound student-athletes must complete the 16 core-course requirement.

Test Scores

- **Division II** currently requires a minimum SAT score of 820 or an ACT sum score of 68. **Beginning August 1, 2018,** Division II will use a sliding scale to match test scores and core-course grade-point averages (GPA). The sliding scale for those requirements is shown on Page No. 2 of this sheet.

  - The SAT score used for NCAA purposes includes **only** the critical reading and math sections. The **writing section of the SAT is not used.**

  - The ACT score used for NCAA purposes is a **sum** of the following four sections: English, mathematics, reading, and science.

  - **When you register for the SAT or ACT,** use the NCAA Eligibility Center code of 9999 to ensure all SAT and ACT scores are reported directly to the NCAA Eligibility Center from the testing agency. **Test scores that appear on transcripts will not be used.**

Grade-Point Average

- Be sure to look at your high school’s List of NCAA Courses on the NCAA Eligibility Center’s website (www.eligibilitycenter.org). Only courses that appear on your school’s approved List of NCAA Courses will be used in the calculation of the core GPA. Use the list as a guide.

  - The current **Division II** core GPA requirement is a minimum of 2.000. **Division II** core GPA required to be eligible for competition **on or after August 1, 2018,** is 2.200 (corresponding test-score requirements are listed on the Sliding Scale on Page No. 2 of this sheet).

  - The minimum **Division II** core GPA required to receive athletics aid and practice as a partial qualifier **on or after August 1, 2018,** is 2.000 (corresponding test-score requirements are listed on the Sliding Scale on Page No. 2 of this sheet).

  - Remember, the NCAA core GPA is calculated using NCAA core courses only.

<table>
<thead>
<tr>
<th>DIVISION II 16 Core Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 years of English.</td>
</tr>
<tr>
<td>2 years of mathematics (Algebra I or higher).</td>
</tr>
<tr>
<td>2 years of natural/physical science (1 year of lab if offered by high school).</td>
</tr>
<tr>
<td>3 years of additional English, mathematics or natural/physical science.</td>
</tr>
<tr>
<td>2 years of social science.</td>
</tr>
<tr>
<td>4 years of additional courses (from any area above, foreign language or comparative religion/philosophy).</td>
</tr>
</tbody>
</table>
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.iag.us/regents/rai/](http://www2.state.iag.us/regents/rai/) to calculate your own RAI score.

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>MINIMUM COURSE REQUIREMENTS FOR ADMISSION</th>
<th>OPTIMUM PREPARATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iowa State University</td>
<td>The University of Iowa</td>
<td>University of Northern Iowa</td>
</tr>
<tr>
<td>English</td>
<td>4 years emphasizing writing, speaking, reading, and</td>
<td>4 years with an emphasis on the analysis and comprehension of literature, composition, and analysis.</td>
</tr>
<tr>
<td></td>
<td>as well as an understanding and appreciation of literature.</td>
<td>4 years including one year of composition,</td>
</tr>
<tr>
<td></td>
<td>4 years with an emphasis on the analysis and</td>
<td>essential reading, and the study and interpretation of fiction. In addition, coursework in English and rhetoric will</td>
</tr>
<tr>
<td></td>
<td>comprehension of literature, composition, and analysis.</td>
<td>be evaluated.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 years with an emphasis on the analysis and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>comprehension of literature, composition, and analysis.</td>
</tr>
<tr>
<td>Math</td>
<td>3 years including one year each of algebra, geometry, and 3 years including one year each of algebra, geometry, and analysis.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>advanced algebra.</td>
<td>3 years including one year each of algebra, geometry, and advanced algebra.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 years including one year each of algebra, geometry, and advanced algebra.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 years including one year each of algebra, geometry, and advanced algebra.</td>
</tr>
<tr>
<td>Natural Science</td>
<td>3 years including one year each with any two of the</td>
<td>3 years including courses in general science, biology, chemistry, earth sciences, or physics. Laboratory experiences are highly recommended.</td>
</tr>
<tr>
<td></td>
<td>following college chemistry or physics.</td>
<td>3 years including courses in general sciences, biology, chemistry, earth sciences, or physics. Laboratory experiences are highly recommended.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 years including courses in general sciences, biology, chemistry, earth sciences, or physics. Laboratory experiences are highly recommended.</td>
</tr>
<tr>
<td>Social Studies</td>
<td>2 years for admission to the College of Agriculture and 2 years for admission to the College of Agricultural Sciences and Sciences.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 years for admission to the College of Liberal Arts and Sciences.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 years including history and world history for admission to the College of Liberal Arts and Sciences.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 years including history and world history for admission to the College of Liberal Arts and Sciences.</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>2 years of a single foreign language for admission to the 2 years of a single foreign language for admission to the College of Engineering.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>College of Liberal Arts and Sciences.</td>
<td>College of Engineering.</td>
</tr>
<tr>
<td></td>
<td>2 years of a single foreign language are required for</td>
<td>3 years including courses in anthropology, cultural geography, geology, history, political science, or sociology.</td>
</tr>
<tr>
<td></td>
<td>admission. However, two years of foreign language at</td>
<td>3 years including courses in anthropology, cultural geography, geology, history, political science, or sociology.</td>
</tr>
<tr>
<td></td>
<td>high school with a C+ or above in the last class will</td>
<td>3 years including courses in anthropology, cultural geography, geology, history, political science, or sociology.</td>
</tr>
<tr>
<td></td>
<td>meet the minimum graduation requirement.</td>
<td>3 years including courses in anthropology, cultural geography, geology, history, political science, or sociology.</td>
</tr>
<tr>
<td>Other Courses</td>
<td>Specific elective courses are not required for admission.</td>
<td>2 years of additional courses beyond the required subject areas, foreign language, and the arts.</td>
</tr>
<tr>
<td></td>
<td>Specific elective courses are not required for admission.</td>
<td>2 years of additional courses beyond the required subject areas, foreign language, and the arts.</td>
</tr>
</tbody>
</table>

Note: For purposes of calculating the RAI SAT scores will be converted to ACT composite equivalents. 300 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).
Agricultural Science, Technology, and Marketing Department

Introduction to Agriculture I
#150
Grades 9-10
2 semesters = 2 credits

Introduction to Agriculture and Natural Resources courses survey a wide array of topics within the agricultural industry, exposing students to the many and varied types of agriculture and career opportunities and those in related fields. These courses serve to introduce students to the agricultural field, providing them an opportunity to identify an area for continued study or to determine that their interest lies elsewhere. These courses often focus on developing communication skills, scientific research, types of business ownership, business principles, and leadership skills.

Animal Production/Science
#161
Grades 10-11-12
1 semester = 1 credit
Offered: 2019-2020

The class will cover all aspects of common farm and Animal Production/Science courses impart information about the care and management of companion and farm animals. These courses may cover animal nutrition, health, behavior, selection, reproduction, anatomy and physiology, facilities, product processing, research, qualitative and quantitative analyses as a basis for decision making, and marketing. Students may study a particular species, or they may learn how to care for and maintain livestock as a more inclusive study.

Sustainable/Alternative Agriculture
#157
Grades 10-11-12
1 semester = 1 credit
Offered: 2019-2020

Sustainable/Alternative Agriculture courses explore technological and environmental changes and concerns. These courses address alternative approaches to food production including, but not limited to, organics, low-input, natural, and sustainable production methodology and practices. Course content may include comparing the effects of alternative production practices to those of conventional production practices.

Agricultural Biotechnology
#158
Grades 10-11-12
1 semester = 1 credit
Offered: 2019-2020

Agricultural Biotechnology courses apply biological principles and understanding to plant and animal science in order to produce or refine agricultural products. Course topics typically include but are not limited to microbiology, genetics, growth and reproduction, structural basis of function in living systems, chemistry of living systems, quantitative problem-solving, and data acquisition and display. These courses also often cover the ethics of biotechnology.

Horticultural Science
#163
Grades 10-11-12
1 semester = 1 credit
Offered: 2019-2020

Horticultural Science courses expose students to the art and science of growing plants, shrubs, trees, flowers, fruits, and vegetables. In doing so, they cover a wide variety of topics, including principles of plant science, greenhouse and nursery operations, soils and growing media mixtures, fruit and vegetable production, turf/golf course management, interior and exterior plantscaping, irrigation systems, weed and pest control, and floral design.

Food Science
#165
Grades 10-11-12
1 semester = 1 credit
Offered: 2020-2021

This class will cover the food supply from the farm to the consumer. Marketing, grading, processing, and supplying the food product to the customer will be covered.

Crop Production/Agronomy
#166
Grades 10-12
1 semester = 1 credit
Offered: 2020-2021

This class will cover the production of common agricultural farm crops. Crops production will be explored from field preparation, to planting, cultivating, and harvesting.
Agricultural Business
#167
Grades 10-12
1 semester = 1 credit
Offered: 2020-2021

This class will cover the skills needed to properly operate an agricultural business. Students will develop a business plan and learn proper salesmanship techniques.

Agricultural Leadership Skills
#162
Grades 10-12
1 semester = 1 credit
Offered: 2020-2021

The class will cover the skills need to become an agricultural leader. The skills will involve parliamentary procedure, speaking skills, agricultural communications, and job seeking skills.

Aquaponics/Natural Resources
#168
Grades 10-12
1 semester = 1 credit
Offered: 2020-2021

This class deals with the preservation and conservation of our natural resources. Management of wildlife, conservation laws, and the preservation of all types of natural resources will be explored.

In order to complete the Agricultural Vocational Sequence, these courses must be completed and should be taken in grades 10 & 11.

The agriculture course is occupationally specific leading to employment or to attendance at one of the state's community colleges with which we have an articulation agreement. By attending one of these institutions the student may receive credit for successful high school completion of the articulated courses.

Employment opportunities that these courses are designed to prepare students for include farm production and management and/or farm production related businesses.

Articulation Agreements
The identified **Ag program classes are articulated with the following institution and their course offerings:

Northeast Iowa Community College
-Farm Management

- Art Department -

Introduction to Art
#17
Grades 9-10-11-12
1 semester = 1 credit
Prerequisite = None

This course offers students an introduction to fundamental concepts of visual art. Students will explore elements of art and principles of design through assignments using problem solving skills, technical skills, and material use through 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 individual and group discussion.

Drawing
#13
Grades 9-10-11-12
1 semester = 1 credit
Prerequisite = None

This course offers students a variety of two dimensional drawing mediums and surfaces. Students will explore charcoal, pencil, colored pencil, oil pastel, and pen while developing technical proficiency, observational skills, and personal style. Students will be expected to complete weekly sketchbook assignments and demonstrate an increasing art vocabulary through reflective process and analysis of their work and the work of others.

Painting I
#15
Grades 9-10-11-12
1 semester = 1 credit
Prerequisite = None

This course offers students a range of two dimensional painting mediums and surfaces. Students will explore ink, watercolor, acrylic, and oil paint while developing technical proficiency, observational skills, and personal style. Students will demonstrate an increasing art vocabulary through reflective process and analysis of their work and the work of others.

Sculpture
#18
Grades 9-10-11-12
1 semester = 1 credit
Prerequisite = None

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 wire, clay, plaster, wood, foam, and recycled materials. Within each unit of study, various artists and art styles will be covered as well as different sculptural techniques.

**Digital Media Arts**  
*#2*  
Grades 10-11-12  
1 semester = 1 credit  
Prerequisite = None

This course offers students hands-on experience with the digital world. Topics in this course, includes animation, audio and video production, and green screen. Students will have the opportunity to use technology tools such as Photoshop, Animator, and iMovie software to create high quality multimedia works. Students will learn the history of digital arts and animation, along with instruction on using tools and devices for creating quality work.

**Ceramics**  
*#6*  
Grades 9-10-11-12  
1 semester = 1 credit  
Prerequisite = None

This course offers students hand-built clay construction and basic wheel throwing techniques. Students explore three-dimensional design while developing both useful and sculptural forms. Creativity and quality will be emphasized.

**Photography**  
*#1*  
Grades 10-11-12  
1 semester = 1 credit  
Prerequisite = None

This course offers the use of the Digital DLR camera controls, including f/stops, shutter speed, film speed, and the production of correct exposure. Students will learn composition, criticism, lighting, and image editing software skills. Students will learn the history and invention of photography. Assignments will include creative use of the camera controls using depth of field and action motion, shadows and light, camera angles, portraits, and compositions based on the principles and elements of design. Students will receive instruction, demonstration, and see examples of the desired outcomes.

**Studio Art #10**  
Grade 12; 11 with special permission  
1 semester = 1 credit  
Prerequisite = By PERMISSION OF INSTRUCTOR

This course is offered to senior students who have previously taken Drawing, Painting, Ceramics, and Sculpture. Students are willing to perform at an advanced level in the Visual Arts. Students must have approval from instructor before registering for this course. Students will devise a plan of action for creating five artworks for the semester, in addition to artwork, the student will write an artist statement, visit an art gallery or museum, and interview a local artist.

- **Business Education Department** -

**Business Computers**  
*#54*  
Northeast Iowa Community College-Contracted  
Introduction to Computer Business Applications, BCA:212  
Grades 9-10-11-12  
1 semester = 1 high school credits = 3 college credits

Business Computers utilizes hands-on experience using computers and software programs. The course provides students with a realistic view of information processing procedures. Major emphases will be training in the Microsoft Office Suite. Microsoft Word, Excel, Access and Power Point will be covered. Other business machines such as adding machines and the telephone will also be covered. The students appreciate the value of information processing skills as a professional tool, as well as a career option or as a tool to use in college.

This course is one of the courses in the articulated Administrative Support sequence. In order to complete this occupationally specific sequence, this course needs to be completed and should be taken in grades 11 or 12.

**Accounting I**  
*#55*  
Grades 10-11-12  
1 semester = 1 credit

Do you like money? Why not take a class that teaches you how to make it and track it! Accounting is an elective course of study, which instructs the student in the details of business transactions, measures profitability and provides a basis for managerial decision-making. Accounting is often referred to as a language of business. Accounting provides a background of essential skills for students with business aspirations as well as a personal use skill. This one semester class will cover the basics of Partnership Accounting for a service business. It is suggested that you take Accounting II to complete a full year of accounting.

**Accounting II**  
*#56*  
Grades 10-11-12
1 semester = 1 credit
Prerequisite: Accounting I

Accounting is an elective course of study. This course picks up where Accounting I leaves off. It will cover corporate accounting for a merchandise business. Accounting provides a background of essential skills for students with business aspirations as well as a personal use skill. Automated accounting will also be covered in this course. Through instruction in this course, the student will: (1) understand accounting concepts, principles and practices; (2) apply accounting procedures; (3) realize career opportunities available through the study of accounting. This class is a must for everyone! Completion of both Accounting class allows this course to be articulated to a community college of your choice.

This course is one of the courses in the articulated Accounting sequence. In order to complete this occupationally specific sequence, this course needs to be completed and should be taken in grades 11 or 12.

**Introduction to Business**

#59
Grades 9-10-11-12
1 semester = 1 credit

This is a basic business course using hands-on experience, simulations, and a text to incorporate a fast paced curriculum to give students a broad view of business. The course will look at our free enterprise system in the three possible roles a student plays: as a worker, as a consumer, and as a citizen in the economy. The course will give a basis for those students considering further study in business, as well as offering useful and practical aspects of living to students not intending further business studies. A stock market simulation will be completed including on-line activities on the Internet. Ethics, entrepreneurship, marketing and management skills will be discussed. The marketing unit will include making commercials, using Aldus Persuasion and Aldus Premier software with the Macintosh computers. We invite all students that are interested or just thinking about a business career to take this course.

This course is one of the courses in the articulated Business sequence. In order to complete this occupationally specific sequence, this course needs to be completed and should be taken in grades 9, 10, 11, or 12.

**Small Business Management**

#58
Grades 11-12
1 semester = 1 credit

Not Offered 2018-2019

This Junior Achievement program provides high school students with practical business experience through the organization and operation of a business. This will be a hands-on class, which is designed for the business student to explore entrepreneurship. Highlights will include a student run company, a computer management and economics simulation and a volunteer local business executive who spends one period a week in a classroom as a resource person linking economic theory to the business world. It ties all knowledge of business concepts together and allows the student to apply them to realistic simulation situations.

This course is one of the courses in the articulated Business sequence. In order to complete this occupationally specific sequence, this course needs to be completed and should be taken in grades 11 or 12.

**Photoshop I**

#57
Grades 10-11-12
1 semester = 1 credit

This course delivers practical knowledge regarding basic operating issues with Adobe Photoshop. Directed practice will focus on learning the tools, menus, palettes, processes and filters involved with simple to moderate image manipulation using Photoshop.

**Principles of Marketing**

#53
Grades 10-11-12
1 semester = 1 credit

Course covers the broad concept of marketing including product distribution, promotion, and price decisions. It includes the role of buyers and the social issues involved in the marketing process, along with environmental problems, issues, and the philosophy of marketing management.

**Articulation Agreements**

The identified Business program classes are articulated with the following institutions and their course offerings:

- Hawkeye Community College
  - Typing I/Keyboarding
  - Computer Keyboarding
Northeast Iowa Community College
- Typing/Keyboarding I
- Personal Keyboarding
- Accounting Fundamentals I
- Office Accounting

- Computer Science Department -

Computer Applications I
#70
Grades 10-11-12
1 semester = 1 credit

The following areas of computer technologies will be studied: the Internet, multimedia technologies, computer spreadsheets, and computer databases. This course is designed for people who want to use computers more effectively in their lives.

Computer Applications II
#71
Grades 11-12
1 semester = 1 credit
Not offered 2019-2020

Computer technology, by its very nature, is fluid and constantly changing. This class will allow the student to become familiar with new computer technologies as they emerge. Topics will include Internet applications, local area network installation and administration, digital graphics, and multimedia applications. The course will be fast paced, addressed to individual needs, and will require a commitment of a considerable amount of out-of-class time.

VREP: Virtual Reality Education Pathway
#75
Grades 9-10-11-12
1 semester=1 credit
Not offered 2019-2020

Students will work independently and collaboratively to develop 3-D images on the Blender program. This is basically a self-taught course that demands a high degree of self-motivation to learn the Blender program. Students will use the Internet to research and collaborate with students from other Iowa schools or around the world. Principal/Guidance Counselor/VREP Advisor approval is needed to register for this class.

- English Department -

English I
#202
Grade 9
2 semesters = 2 credits

Prerequisite: None

This course, utilizing the Grade 9 Literature textbook (Prentice Hall) and supplemental texts as needed, provides students with basic English language skills necessary for successfully navigating the high school curriculum. Grammar and vocabulary will be developed to enhance reading, writing, speaking, and listening skills. Students will experience and participate in various forms of written and oral language, to include nonfiction and informational texts, short stories, poetry, and drama. Rudiments of the research process and research paper production will lay the foundation for future writing requirements.

English II
#207
Grade 10
2 semesters = 2 credits

This yearlong course furthers students' abilities in composition and public speaking through the use of fiction and nonfiction readings. Students will read various current issues essays and op-ed pieces that will further understanding of current issues in our society, as well as the research process, in addition to several fictional works including Of Mice and Men, 1984, Julius Caesar, and other relevant selected fiction and nonfiction pieces from the Prentice Hall's Literature: Grade Ten series. Students will continue to use nonfiction literature, current media, and other resources to defend their stances through research in both written and oral presentations. The course will integrate both vocabulary and grammar through various mediums.

English III
#208
Grade 11
2 semester = 2 credits
Prerequisite: English I

This course is an overview of American literature, with a brief review of the very beginnings of American literature and a focus on literature since the Civil War. This course will be taught in tandem with American History. Instruction will incorporate writing, vocabulary, grammar and usage, public speaking, and multi-media content. Required reading will include selections from Prentice Hall's Literature: The American Experience, as well as representative texts from and/or describing various periods in American history. During the English III course of study, at least one research paper will be required.
English IV
#200
Grade 12
2 semesters = 2 credits

This course is an overview of world literature designed to prepare students for a continued educational experience in either a community college or four-year institution. Instruction will incorporate writing, vocabulary, grammar and usage, multi-media content, and public speaking. The featured textbook will be Prentice Hall’s World Masterpieces; students will also read Aleksandr Solzhenitsyn’s One Day in the Life of Ivan Denisovich (Russian literature) and Mary Shelley’s Frankenstein (British literature) and Khaleed Hosseini’s The Kite Runner (Afghani literature), among others.

College Composition I
#220
Northeast Iowa Community College-Contracted
ENG: 103
Grade: 12
Prerequisite: ACCUPLACER Score: 6+ on Essay OR ACT English Subtest score of 19+
3 college credits = 1 high school credit

This course prepares the student for the types of communication and thought essential to academic and working-world success. Focuses on writing as a process and is intended to help students identify and refine their own personal writing.

College Composition II
#221
Northeast Iowa Community College-Contracted
ENG: 106
Grade: 12
Prerequisite: A minimum grade of C- in ENG:105
3 college credits = 1 high school credit

A writing course that focuses on writing as a process with emphasis on persuasion, evaluation, analysis, investigation, and research.

Short Stories I
#203 and #205
Grades 9-10-11-12
1 semester = 1 credit
Placement based on tests in reading

This course is an intensive effort to promote growth in reading. The program is designed to provide an appropriate level of support for students according to their reading levels.

Short Stories II
#206
Grades 10-11-12
1 semester = 1 credit
Placement based on tests in reading

This course is the second phase of an intensive effort to promote growth in reading. The program is designed to provide an appropriate level of support for students according to their reading levels.

Short Stories III
#209
Grades 11-12
1 semester = 1 credit
Placement based on tests in reading

This course is the third phase of an intensive effort to promote growth in reading. The program is designed to provide an appropriate level of support for students according to their reading levels.

Drama
#217
Grades 10-11-12
1 semester = 1 credit

This course will cover many aspects of the theatre. The class will cover four major sections. The first unit will focus on understanding drama and the different varieties of drama found in our society. The second unit will be on interpreting the drama, beginning with improvisation and working towards students acting out scenes from plays. The third unit will be over the appreciation of drama, covering the history and changes that drama has experienced. The fourth unit will cover producing the drama. This unit will cover the fundamentals of a high school play production. Work on the high school musical or dramatic production could also be a part of this class. This course may be used to satisfy either the English or Fine Arts requirement.

The Novel
#219
Grades 10-11-12
1 semester = 1 credit
Prerequisite - English I and teacher approval for grade 10 students

This course will primarily focus on British and American contemporary works with a smattering of classic texts. Students in this class will read and analyze student-selected novels embodying universal themes in literature, applying a
variety of lenses to determine author’s purpose, societal influences, and cultural impact. Exploration of these same lenses and themes in the context of film will further enrich individual student work and class discussion.

**Literature in Action**  
**#212**  
Grades 10-11-12  
1 semester = 1 credit  
Prerequisite - English I  
Not Offered 2019-2020

This class will focus on the literature of drama. Several units will comprise the course, to include units on the history of drama, structures and forms of drama, intentions of the playwright, and techniques of reading and presenting drama. Technical aspects of presenting this performance-based literature (lighting, set design, make-up, etc.) will be discussed briefly. Students will be exposed to the various forms of drama, to include storytelling, readers’ theater, choral reading, poetry interpretation, improvisation, stage plays, operas, and musicals. Students will discuss the correlation between the life of the playwright, the socio-political climate of the time, and the underlying themes and messages of the literature produced.

**Women in Literature**  
**#215**  
Grades 10-11-12  
1 semester = 1 credit  
Prerequisite - English I  
Not Offered 2019-2020

This course will focus on British and American women writers and poets, incorporating the reading and discussion of poetry, drama, short stories, and novels. The development of the female author will be discussed, as will the impact of society on the writers and their work, the impact of the writers on society, and the voice of women writers in America today.

\- Family & Consumer Science Department -

**Introduction to Family and Consumer Science I**  
**#300**  
Grades 9-10-11-12  
1 semester = 1 credit

FCS I is an introductory course to Family & Consumer Sciences. Students in this course will learn a sampling from all the areas of Family & Consumer Sciences. Students will study the areas of relationships, child development, parenting, housing, personal finance, textiles, and food & nutrition. Students will explore careers and opportunities within Family & Consumer Sciences.

**Textiles and Clothing I**  
**#301**  
Grades: open to 9th grade spring semester with prerequisite of fall semester FCS I and 10-11-12 grades  
1 semester = 1 credit  
Prerequisite: FCS I

Textiles and Clothing is designed to provide an introduction into the world of fashion, personal wardrobe, clothing selection, buying and care. The art elements and principles of design will be introduced and discussed as they pertain to personal selection. A series of construction projects will help the student learn to improve basic sewing skills.

**Textiles and Clothing II**  
**#302**  
Grades 11-12  
1 semester = 1 credit  
Prerequisite: Textiles and Clothing I

Textiles and Fashion is intended for students who have an interest in fashion and textile career or who would like to improve their sewing skills. Emphasis will be placed on the four basic areas of textile careers and the workplace. Fabric and advanced construction skills will be studied in detail.

**Food and Nutrition**  
**#303**  
Grades: open to 9th grade spring semester with prerequisite of fall semester FCS I and 10-11-12 grades  
1 semester = 1 credit

This course will cover the basic principles of nutrition, wellness, and food preparation. Students will explore nutritional needs and prepare foods that enhance growth and development. It will include an understanding of Safety & Sanitation, Kitchen Equipment, Recipes, and Measuring.
Students will have experience working with foods in each area of the food groups.

**Culinary Skills**

#311  
Grades 10-11-12  
1 semester = 1 credit  
Prerequisite: Food and Nutrition

This course will cover an understanding of basic food terminology, use of recipes, identifying and classifying food and food products. Students will have experience with bakery items, entrees, and garnishes. It will include an understanding of food preparation techniques, food service, & cake decorating will be explored. This course will include food prep lab experiences with an evaluation of products, quality, and safety & sanitation.

**Food and Culture**

#313  
Grades 11-12  
1 semester = 1 credit  
Prerequisite: Food and Nutrition

This course will study how social, physical, and cultural environments influence food choices. The world is becoming more diversified and influences from around the globe affect our food choices. Leadership and job skills will be part of the learning process while students take on the roles and tourism and marketing directors. Cuisines from each continent will be explored. This course will include experiences of Food Preparation and Safety and Sanitation.

**Parenting and Child Development**

#307  
Grades: open to 9th grade spring semester with prerequisite of fall semester FCS I and 10-11-12 grades  
1 semester = 1 credit

This course will cover the basic principles of parenting and child development. The main emphasis of this course are parenting, prenatal care, pregnancy and birth, and the development of children through age 6. Students will learn decision making skills, responsibilities of parenthood, and aspects of child development from conception to age 6. Students will gain an understanding of caring for a newborn through the Reality Babies.

**Working With Children**

#309  
Grades 10-11-12  
Prerequisite: Parenting and Child Development  
1 semester = 1 credit  
Not Offered: 2019-2020

This course will allow students to work with and observe elementary students and teacher facilitators. The course is designed to promote an understanding of child development, how to organize and manage a classroom, develop curriculum plans and activity for young children while providing hands on experiences. This hands-on experience is for anyone who enjoys working with children. Recommended for students interested in a career working with children.

**Interior Design**

#310  
Grades: open to 9th grade spring semester with prerequisite of fall semester FCS I and 10-11-12 grades  
1 semester = 1 credit

Housing is a complicated issue and students should prepare themselves for their future housing needs and the knowledge required when selected housing needs. This course is designed to enhance student’s knowledge that are interested in Interior Design and explore careers options within the field. Students will be studying basic design concepts, elements of design, color, drafting, furniture selection and arrangement, and requirements for financing housing.

**Articulation Agreements**

*The identified classes are articulated with the following institutions and their course offerings:*

- Hawkeye Community College
  - Child Growth & Development
- Northeast Iowa Community College
  - Child Growth & Development

**Spanish I**

#260  
Grades 9-10-11-12  
2 semesters = 2 credits

Spanish I is an introduction to the Spanish language, focusing on basic beginning speaking and grammar skills. Instruction will be in both the English and Spanish languages, to ensure that students are acquiring the language at the appropriate rate. Students will encounter a variety of activities, both verbal and hands-on, to emphasize any vocabulary or grammar taught.

**Spanish II**

#261  
Grades 10-11-12  
2 semesters = 2 credits
Spanish II is a continuation of Spanish I, but with a more advanced level of the Spanish language. The students will be taught using more Spanish than English. Culture will be incorporated into the class to provide the students with an opportunity to become familiar with Latin American countries. There will continue to be a variety of activities during classes to ensure language acquisition.

Spanish III
#262
Grades 11-12
2 semesters = 2 credits

Spanish III will be a more advanced continuation from Spanish I and II, with more emphasis on everyday vocabulary and higher-level grammar. Students will be able to use the Spanish language in both written and speaking situations. Culture will continue to be a part of class, using it to create culture-based activities, while incorporating the Spanish language.

Spanish IV
#263
Grades 12
2 semesters = 2 credits

Spanish IV is yet more advanced, using everything learned in Spanish I, II, and III, mastering it and adding on even higher-level grammar. Classes will be taught mostly in Spanish, with the expectation that they use the language as much as possible. Students will continue to enjoy a variety of activities to ensure proper language acquisition and experience many different cultural activities.

- Health Department -

Personal Health
#308
Grades 11-12
1 semester = 1 credit

This course explores the different dimensions of health and wellness. Students will learn about health and wellness behaviors that will benefit their overall health. The main emphasis is in the areas of personal health, healthy relationships, parenting and family crises, substance use and abuse, caring for children, budgeting, and food preparation and nutrition.

Family Health
#306
Grades 11-12
1 semester = 1 credit

This course explores the different dimensions of health and how it relates to families.

Students will learn about healthy personal and family behaviors. The main emphasis is in the areas of personal health, healthy relationships, parenting and family crises, substance use and abuse, caring for children, budgeting, and food preparation and nutrition.

- Industrial Technology Department -

The Industrial Technology Department offers to all students a job preparatory curriculum in construction. The construction program has three sequential units consisting of Construction I, Construction II, and Construction III. A student has the option of taking all or part of the program during his or her high school career.

General Industrial Technology
#350
Grades 9-10-11-12
1 semester = 1 credit

This beginning level course exposes students to the tools and machines they may encounter in constructions related occupations. Students will have the opportunity to develop manual skills with hand and power tools as they construct teacher selected projects. The major topics include activities in woodwork, metal work, plastics, and drawing and planning. General safety and career exploration will also be covered.

Basic Construction Skills
#351
Grades 10-11-12
2 semesters = 2 credits

This course is the first level course in the construction sequence. Topics and projects will relate to construction concepts. Students will experience the fundamentals of sketching and drawing, along with the basics of working with wood and metals. They will develop the skills to operate the common tools and machines essential to good drafting practices, as well as proper wood and metal project assembly. A special emphasis will be placed on cooperation, communication, and responsibilities toward others while working in the classroom setting. Specific instruction in planning, blueprint reading, purchasing and figuring the cost of materials, safety, measuring and laying out materials, care and use of tools and machines, and methods of joining various materials will be taught. Students will be allowed to build usable teacher selected projects.

This course is a beginning course for the articulated Construction vocational sequence. In order to complete the occupational specific sequence, this course needs to be completed and should be taken in grade 10.
Cabinetmaking
#353 & #353
Northeast Iowa Community College-Contracted
Cabinet Making, CON 384
Grades 11-12
2 semesters = 2 credits = 5 college credits
Prerequisite: Basic Construction Skills

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 course is the second course for the articulated Construction vocational sequence. In order to complete the occupational specific sequence, this course needs to be completed and should be taken in grade 11.

Construction I & Construction II
#363
Grades 11-12
2 semesters = 2 credits
Prerequisite: Cabinetmaking

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 sheeting 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 course completes the occupational specific sequence of courses in Construction leading to employment or to attendance at one of the state's community colleges with which we have an articulation agreement. By attending one of these institutions, the student may receive credit for successful high school completion of the articulated courses.

Grades 11-12
1 semester = 1 credits = 2 college credits

This is a beginning level drafting course designed for students who are interested in architecture and/or engineering. Students who enroll in the course will have an opportunity to learn the basic information necessary to plan various types of dwellings. Also available will be lessons in other fields of drafting. Included will be sheet metal stretch-outs, exploded and orthographic drawings, schematics, flowcharts, and other specialized sketching and drawings.

The second half of the course will consist mainly of C.A.D. related drawings. Both architectural and mechanical drafting will be studied. All drawings will be made on the computer.

Computer Aided Drafting
#367
Grades 10-11-12
1 semester = 1 credits

This class is offered to further the drafting students knowledge of basic drafting practices by using various CAD software to create their own designs. Students will first work to develop a set of house plans using the chief architect software and their laptops. The house plans will include blueprint style views, 3-D modeling, and offer students the opportunity to take a virtual tour of the homes they create. Students will also use CAD programs like TinkerCad and Sketch Up to design projects to create with the Industrial Technology department's Makerbot 3-D printer. Students will get to see their designs become solid 3-D products.

Power Technology
#360
Grades 10-11-12
1 semester = 1 credits

Student’s will study the history of power, different sources of power, hydraulic systems, pneumatic systems, and electricity. The use of tools, and gasoline and diesel engines are discussed. The course will cover the care and operation of small gas engines. There will be lab work which will include the tear down and overhaul of small gas engines, units of hydraulic systems, pneumatic systems, and some basic electrical work. The electrical unit will focus mainly on concepts AC-DC theory that are used by mechanics and electricians. If you are interested careers in automotive, diesel repair, hydraulics, pneumatics, and electricity, this is the class for you.

Basic Drafting
#366
Northeast Iowa Community College-Contracted
Basic Drafting, CON 111
**Welding & Cold Metals**

#357
Grades 10-11-12
1 semesters = 1 credits

Students will have the opportunity to learn the basics of shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (MIG), Tungsten Arc Welding (TIG), and Oxyacetylene Welding (OAW). The course will include tools and equipment used in shop, along with shop safety. It will also cover overhead welding practices with the arc welder and welding different types of metals. Students will learn to use the MIG welder and the TIG welder for various welding operations.

The second half of the course will include cold metal skills. This course enables students to further improve their welding skills in the fabrication of more complex metal products. Students will also have an opportunity to use the tools and machines that may be encountered in metal fabrication occupations. They will also be acquainted with metal machining practices, along with exposure to working with sheet metal, plastics, woods, ceramics, and composite materials.

**Articulation Agreements**
The identified ** classes are articulated with the following institutions and their course offerings:

Northeast Iowa Community College:
-Welding

-Mathematics Department-

**Pre-Algebra**

#401
Grade 9-10-11-12
2 semesters = 2 credits

Pre-Algebra is a one-year course designed to prepare a student for the demands of high school Algebra. Topics covered include computation with integers and rational numbers, solving equations and inequalities, ratios, proportions, percents, and some introductory graphing concepts.

**Algebra I**

#400
Grade 9-10-11-12
2 semesters = 2 credits

This class covers all of the standards in the domains of the Common Core State Standards for Algebra 1.

The domains are:
- The Real Number System
- Quantities
- Seeing Structure in Expressions
- Arithmetic with Polygons and Rational Expressions
- Creating Equations
- Reasoning with Equations and Inequalities
- Interpreting Functions
- Building Functions
- Linear, Quadratic, and Exponential Models
- Interpreting Categorical and Quantitative Data

This course is designed for the 2-4 year college bound student.

**Algebra I Concepts**

#411
Grades 9-10-11-12
2 semesters = 2 credits

This class covers all of the standards in the domains of the Common Core State Standards for Algebra 1.

This course is designed for the non-college bound or community college bound student.

**Geometry**

#404
Grades 9-10-11-12
2 semesters = 2 credits
Prerequisites: Algebra I or Algebra Concepts

This class covers all of the standards in the domains of the Common Core State Standards for Geometry.

The domains are:
- Congruence
- Similarity, Right Triangles, and Trigonometry
- Circles
- Expressing Geometric Properties with Equations
- Geometric Measurement and Dimensions
- Modeling with Geometry
- Conditional Probability and the Rules of Probability

This course is designed for the 2-4 year college bound student.

**Geometry Concepts**

#412
Grades 10-11-12
Prerequisites: Algebra I or Algebra Concepts
2 semesters = 2 credits

This class covers all of the standards in the domains of the Common Core State Standards for Geometry.
This course is designed for the non-college bound or community college bound student.

**Algebra II**

#405

Grade 10-11-12

2 semesters = 2 credits

Prerequisite: Geometry

This class covers all of the standards in the domains of the Common Core State Standards for Algebra 2.

The domains are:
- The Complex Number System
- Seeing Structure in Expressions
- Arithmetic with Polynomials and Rational Expressions
- Creating Equations
- Reasoning with Equations and Inequalities
- Interpreting Functions
- Building Functions
- Linear, Quadratic, and Exponential Models
- Trigonometric Functions
- Interpreting Categorical and Quantitative Data
- Making Inferences and Justifying Conclusions

This course is designed for the 2-4 year college bound student.

**Algebra II Concepts**

#414

Grades 11-12

2 semesters = 2 credits

Prerequisite: Geometry or Geometry Concepts

This class covers all of the standards in the domains of the Common Core State Standards for Algebra 2.

This course is designed for the non-college bound or community college bound student.

**Pre-Calculus**

#406

Grade 1-12

2 semesters = 2 credits

Prerequisites: Algebra II & Geometry

This course expands the skills and knowledge gained in Algebra II for advanced work in math. It includes such areas as trigonometry, analytic geometry, calculus, high degree equations, complex numbers, permutations, and probability.

**Calculus**

#415 & #416

*Northeast Iowa Community College-Contracted*

*MAT 210*

Grades 12 or approval from instructor

2 semesters = 2 credits = 3 college credits

Prerequisites: Pre-Calculus & ALEKS placement test

This course is offered for dual credit through N.I.C.C. Topics covered include functions and graphs, limits and continuity, derivatives and applications of derivatives, and integration.

**Statistics**

#408 & #409

*Northeast Iowa Community College-Contracted*

*MAT 156*

Grades 10-11-12 or approval from instructor

2 semesters = 2 credits = 3 college credits

Prerequisites: Geometry & ALEKS placement test

Introduces the basic methods of statistical reasoning to help develop the ability to summarize data, interpret data, and draw conclusions based on the data.
- Music Department -

Concert or performance attendance is required for credit (passing grade) in all groups.

Members of any of these groups are eligible for participation in the state small group contest in the spring, which includes solo and small ensemble work. Students must be members of the appropriate large group to participate in small groups.

Music is considered a full year course and may not be added or dropped at the semester unless scheduling conflicts preclude a student from signing up for both semesters. Exceptions must be approved by the instructor, counselor, and principal.

High School Band
#450
.5 credit per semester  
Meets Day 1  
Open to all high school students with the consent of the director. Members of the band comprise the Concert Band, Jazz Band, Marching Band and Pep Band.

The Concert Band is the heart of the band program. This group performs at the annual Christmas Concert and Pops Concert. It also participates in the IHSMA Large Group Festival in May. Members of the Concert Band also have the opportunity to perform a solo or in a small ensemble at the ISHMA State Small Group Festival, usually held in April.

The Marching Band begins with a band camp before school starts and lasts until the final home football game. The Marching Band performs at most home football games and also marches in the Homecoming parade and the Memorial Day parade.

High School Jazz Band
#451  
.5 credit per semester  
Meets Day 2  
The Jazz Band is an optional ensemble that begins very shortly after Marching Band is over. The biggest performance for this group is at the Swing Show in May; however, the Jazz Band also performs at the Christmas Concert and the Pops Concert. This group usually rehearses in the mornings before school.

The Pep Band plays for most of the home events during the winter sports season and at the Pep assemblies.

Mixed Chorus
#452  
.5 credit per semester  
Meets Day 1  
Open to all high school students. Membership may be limited by the size of the men’s section in order to maintain a balanced choir. If necessary, auditions will be held in the fall. Up to six performances may be scheduled each year. All styles of music are performed.

Show Choir/Chamber Choir
#453  
.5 credit per semester  
Meets Day 2  
Open to all students in Mixed Chorus. Membership limited to 24 voices or balanced sections. Open to all grade levels. Auditions will be held in the fall. Members should be full-year students and remain scholastically eligible for extracurricular activities. Choir performs at concerts, variety shows, contests, and other special events. All styles of music are performed, but special emphasis is on pop/swing choir literature. This choir performs the most difficult and challenging literature. May be added at the semester with the consent of the instructor.

- Physical Education Department -

Physical Education
#503  
Grades 9-10-11-12  
.5 credit per semester  
The purpose of this program is to develop students physically, mentally, emotionally and socially through a variety of selected activities, which emphasize the development of well-rounded, well-adjusted individuals. Also, students become involved in a variety of lifetime activities, which will be of great social and recreational benefit to them as participants, as well as spectators.

Strength & Conditioning
#504-Males  
#505-Females  
Grades 9-10-11-12  
.5 credit per semester  
The Strength and Conditioning Class is dedicated to maximizing the physical potential of each student. This course can be taken as a Physical Education credit for athletes and students alike.
The course will focus on the following:
Utilizing a scientifically based and tested program that will help students/athletes increase strength, speed, agility, flexibility and physical wellness. Throughout the course, students will be educated and assessed on a variety of agility enhancing exercises, weight training, plyometric work and flexibility exercises.

The program will monitor each student’s progress throughout the duration of the class through continuous logging of performance as well as regular course assessments, attendance and participation. Through this program, Clayton Ridge seeks to educate and train the students in a manner that will enhance their physical health, as well as reduce the risk of injury and enhance self-confidence.

- Science Department -

**Physical Science**

#550
Grade 9
2 semesters = 2 credits

This course explores the physical world. The interaction of matter and energy is the foundation for this hands-on, discovery-based course. Extensive lab work, student centered activities, real life applications, utilizing the scientific method and the process of science will be the focus throughout the course. The course will encompass chemistry and physics related concepts.

**Biology**

#558
Grade 10
2 semesters = 2 credits

Biology is an investigation of life. The course begins with the study of the organ systems of the human. Then investigates the molecules of life (DNA), inheritance and the concepts of evolution. Biology concludes by comparing anatomy and physiology of various classic life forms through dissection.

**Environmental Science**

#551
Grades 11-12
2 semesters = 2 credits

This course is organized around three central issues: population, resources, and pollution. We will examine the environmental crisis each of the three issues makes. Effort is made to inform students that long-term survival on this planet means conserving natural resources, exploring alternative resources of clean energy and trying to rely on renewable natural resources. We will put together a scrapbook of environmental problems to make us more aware of current situations. A number of field activities will be included.

**Chemistry**

#553
Grades 11-12
2 semesters = 2 credits
Prerequisite: Biology or Instructor's Approval

A study of elements and compounds, and how they react. The course concentrates on the structure of the atom, the periodic table, chemical composition and equations, the gas laws, and acids, bases, and salts. Laboratory work is required. Algebra I is recommended but not required.

**Human Anatomy & Physiology**

#556
Grades 12
2 semesters = 2 credits
Prerequisite: Biology

This course is designed to provide accurate information about the structure and function of the human body in an interesting manner. It is especially planned for students who are pursuing careers in health fields. There is considerable lab work with the beef eye, fetal pig, sheep brain and heart.

**Physics**

#552
Grades 11-12
2 semesters = 2 credits
Prerequisite: Algebra II, Chemistry, or Instructor's Approval

This course will place special emphasis on linear and non-linear motion, forces, vectors, momentum, and graphical analysis of motion. The students will perform a variety of experiments and work on a number of projects that utilize the concepts being studied.

- Social Studies Department -

**World History**

#104
Grades 9-10-11-12
2 semesters = 2 credits

This course begins with appearances of man and the development of the ancient civilizations (Egyptian, Chinese, Greek, Roman, etc.). From there the course proceeds to show the world emerging from the feudal states to highly organized nation-states and the problems they create as
they try to become world powers. Emphasis is placed on economics, religion, social problems and ethnic groups to show how they have influenced man's decisions in the old and modern world.

The major concept of World History is to introduce the student to the important world cultures and their contributions to man. The student then will develop an appreciation of the past and be more likely to understand the happenings in the world today.

**Geography**  
#106  
Grades 9-10-11-12  
2 semesters = 2 credits

This course will provide the student with an overview of physical and cultural geography of the world. It will explain the inter-relationships between people's cultures and their environment plus excite the student's interest in the world around them. As each unit is studied, a project is also required of each student in order to give a broader knowledge of each region.

**American History**  
#102  
Grade 11  
2 semesters = 2 credits

American History is the study of the growth of the United States from an unknown territory to the modern developed world power it is today. Emphasis is placed upon the cultural and social problems that were introduced as our nation evolved from a predominantly rural to an urban society. Also emphasized is our role in worldwide responsibilities to check aggression, assist new emerging nations and in trying to keep the world at peace.

**American Government**  
#100-semester 1  
#101-semester 2  
Grade 12  
2 semesters = 2 credits

This course deals with the way the American governmental system is organized, the way in which this system is controlled by the American people, and the way in which the government functions.

**U.S. History Since 1877**  
#111  
*Northeast Iowa Community College-Contracted*  
HIS 152  
Grade 11-12  
1 semester = 1 credit =3 college credits

The course is designed to inform you about whom you are as citizens of the United States and how past events have shaped the world we live in today. This course will help you become more critical thinkers, which will in return show you how to look at situations in multiple perspectives. We will concentrate on the following historical periods: Progressive Era, World War I, developments between the wars, World War II, and postwar foreign and domestic issues.

**Economics**  
#112  
Grades 11-12  
1 semester = 1 credit

All people are affected by economics, whether or not they understand the subject. The goal of this economic course is to try to teach the students to be wise consumers. A study is made of the consumer's demands, the types of business combinations, the problems of labor, management and agriculture, the creation of money, taxes and a study of capitalism.

**Contemporary Issues**  
#110  
Grades 11-12  
1 semester = 1 credit

This class is a discussion class dealing with the current issues of the day. The textbook is the Cedar Rapids Gazette. Students are expected to read and react daily to various local, national, and international events. They are required to keep a daily journal and must orally participate in class.

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**Special Education Department**

**Functional English**  
#565  
Grades 9-10-11-12  
1 semester = 1 credit

Students will work in both small groups and individually. Small group instruction includes reading high and low informational content, improving comprehension skills and participating in class discussion. Individual instruction will focus on reading, writing, and functional skills that challenge the student ability levels.

**Functional Social Studies**  
#564  
Grades 9-10-11-12  
1 semester = 1 credit
Students explore the roles of family, school, and community as it relates to their lives. Small group discussions are used to discuss current events and social situations. “Read Alouds” are used to introduce historical events, important people in the world, as well discussion topics interesting enough to stimulate conversation.

**Functional Math**
*#574*
- Grades 9-10-11-12
- 1 semester = 1 credit

Students work at levels that match their current abilities. At the lowest level students may develop an ability to match objects according to size, shape, and color. Students will also work on elementary math concepts, basic facts, simple addition and subtraction, problem solving in “real situations” as well as functional skills. Some students will be included into consumer and basic math classes with an associate.

**Functional Science**
*#578*
- Grades 9-10-11-12
- 1 semester = 1 credit

Classroom content in Functional Science is provided with the aid of the workbooks, *The Wonders of Science* by Joan S. Gottlieb. Students study all aspects of water life and land animals. Topics such as animal adaptations, birds, amphibians and reptiles often lead to discussion of real world topics such as how fast is 25 mph, what do you think of when I say “shelter” and many other topics that stimulate thought and conversation. Small group discussion is used to teach personal hygiene, nutrition, and exercise as well as other health issues that pertain to the life of a teenager.

**Work Experience**
*#575*
- Grades 9-10-11-12
- 1 semester = 1 credit

Work Experience for the Level III students is provided in the school setting and in the community. Job experience in school provides actual work experience in the kitchen, janitorial duties throughout the school, refilling vending machines, delivering mail as well providing a recycling service. As students approach their senior year they go out into the community to work at various local businesses.