

# CENTERVILLE HIGH SCHOOL

600 CHS DRIVE - CENTERVILLE, IA 52544

Ryan Hodges  
Guidance Counselor  
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Dear Student and Parent:

This Course Guide has been designed to assist you in making the best possible decisions regarding your educational program at Centerville High School. It is my hope that you will make decisions for your high school courses based on your abilities, interests, aptitudes, and future plans. Currently, throughout the nation, there is a push from the business sector of society for more rigor in the classroom. At the state level, the Department of Education, with the consent of the legislature, is also asking for these changes. Colleges are following suit and requiring even more of the advanced courses (especially in science and math) for acceptance into their schools. If you choose the most challenging courses, you will have more options when ultimately selecting a college to attend.

Please take ample time and give a great deal of thought to your course selections for next year and the following years. The number of teachers and sections for each class is based on the spring pre-registration. However, we can make minor adjustments in the fall.

The explanations in this Course Guide are brief. If you have specific questions concerning the content of a course, please feel free to contact the teacher currently instructing the class for further information. Of course, as a counselor, I feel that I can give added insight as well.

My job is not to dictate what courses a student will take other than those required by the Board of Education. I try to make appropriate suggestions, but the ultimate decision rests with the student and parent.

Each student can meet individually with me concerning course selections for the next school year. I am more than willing and pleased with the opportunity to meet with parents to discuss your child's future. Feel free to give me a call with any questions or to set up an appointment for a conference.

Best,

Ryan Hodges & CHS counseling staff

## **GRADUATION REQUIREMENTS**

\* Note "Concentrations" requirement on the following pages.

<b>English</b> (Eng. 9, Eng. 10, Eng. 11) + 2 more semesters	8 credits
<b>Science</b> (Integrated Science, Biology required + 2 more sem. of science)	6 credits
<b>Mathematics</b>	6 credits
<b>Social Studies</b>	
*U.S. History I & II	2 credits
*Government	1 credit
*Psychology and/or Sociology	1 credit
*Economics	1 credit
*World History I	1 credit
*Financial Literacy	1 credit
<b><i>(Consumer Math can fulfill Financial Literacy Credit or a Math credit)</i></b>	
<b>Physical Education</b>	4 credits
<b>Electives</b>	17 credits
<b>Total Credits</b>	<b>48 credits</b>

## **CLASS LOAD**

Every student grades 9-12 will be required to take 6 classes plus P.E. unless a reduced schedule is approved by administration or counselor.

## **EARLY GRADUATION**

Graduation after 7 semesters is possible provided the student has accumulated 48 credits and has met all other graduation requirements. Early graduation is an individual choice but is not recommended for every student. College-bound students are advised to take advantage of the full 8 semesters of college prep curriculum.

The Board of Education has established some regulations for early graduation:

- 1.) An early graduation form must be completed by December 1 of the senior year.
- 2.) The course work required for graduation under board policy "Graduation Requirements" must be fulfilled. The second semester of PE is waived.
- 3.) All financial and other obligations to the schools must be completed before the early graduation request can be approved. This includes but is not limited to the payment of fees and the return of all classroom and library books.

Other provisions governing students who choose to graduate early include:

- 1.) Early graduates may participate in prom, senior week, and graduation ceremonies.
- 2.) Early graduates are not eligible for second semester extra curricular activities including baseball and softball the summer after graduation.

If late requests for early graduation are submitted, the student must have the recommendation of the superintendent and the principal and the approval of the board.

## **MULTIPLE DIPLOMA REQUIREMENTS (Subject to Change)**

Consistent with its obligations to set standards students must meet to be eligible for high school graduation; the Board of Directors hereby establishes a system of multiple diplomas to encourage educational excellence and to encourage completing coursework beyond the minimum requirements.

To receive the "Standard" high school diploma from this school district, a student must have earned a total of 48 credits along with two "concentrations", as defined and explained in board policy Code No. 505.7 "Graduation Requirements".

To receive the "With Distinction" diploma, students must have earned a total of 51 credits, maintain a cumulative grade point average equal to or exceeding a 3.0 and will be required to have at least three "concentrations".

To receive the "With Honors" diploma, students must have earned 54 credits, maintain a cumulative grade point average equal to or exceeding 3.5. Students will be required to take 4 years of English, including either College Composition or English 12, 4 years of math including Pre-Calculus, 3 years of science including either Chemistry or Physics and 3 years of Social Studies.

Students will be informed of the multiple diploma options and requirements at appropriate stages of their high school career, including initial enrollment and course registration.

**English (8 credits)**

English 9 (2)  
 English 10 (2)  
 English 11 (2)  
 English 12 (2)  
 College Comp. I (1)  
 College Comp. II (1)  
 Communications (1)  
 Media Tech (1)  
 Strategic Reading (1)  
 Grammar I (1)  
 Grammar II (1)  
 Literature 1 & Literature 2 (1)

**Mathematics (8 credits)**

General Math (2)  
 Algebra I (2)  
 Pre-Algebra (2)  
 Geometry (2)  
 Algebra II (2)  
 Pre-Calculus (2)  
 Statistics & Probability (1)  
 Calculus (3)  
 Consumer Math (1)  
 Math Analysis (2)

**Science (8 credits)**

Integrated Science (2)  
 Biology (2)  
 Advanced Biology (2)  
 Chemistry (2)  
 Physics (2)  
 Our Environment (2)  
 Human Anatomy & Physiology I (1)  
 Human Anatomy & Physiology II (1)

**Social Studies (8 credits)**

U.S. History I (1)  
 U.S. History II (1)  
 Economics (1)  
 Psychology (1)  
 Sociology (1)  
 World History I (1)  
 World History II (1)  
 Government (1)  
 World Religions (1)  
 Cultural Geography (1)  
 International Relations (1)

**Business (6 credits)**

Foundations of Entrepreneurship (1)  
 Introduction to Business (1)  
 Employability Skills (1)  
 Work Based Learning (2)  
 Computer Applications I (1)  
 Computer Applications II (1)  
 Marketing (1)  
 Accounting (1)  
 Accounting II (1)  
 Computer Accounting (1)

**Industrial Arts (6 credits)**

Intro to Welding (1)  
 Intro to Machining (1)  
 Machine Metals (2)  
 Advanced Machine Metals (2)  
 Woods I (1)  
 Woods II (1)  
 PLTW Intro to Engineering (2)  
 PLTW Principles of Engineering (2)

**Band (4 years)**

Beginning Band (2)  
 Jazz Band

**Art (6 credits)**

Intro to Art (1)  
 Drawing and Watercolor (1)  
 Acrylic and Oil Painting (1)  
 Ceramics (1)  
 Graphic Design (1)  
 Independent Art I (1)  
 Independent Art II (1)

**Spanish (6 credits)**

Spanish I (2)  
 Spanish II (2)  
 Elementary Spanish (1)  
 Intermediate Spanish (1)

**Vocal Music (4 years)**

Concert Choir

**Vocational Agriculture (6 credits)**

Agri Science I (2)  
 Agri Science II (2)  
 Ag Business I (1)  
 Ag Business II (1)  
 Natural Resources (1)  
 Ag. Products (1)  
 Horticulture I (1)  
 Principles of Horticulture (Horticulture II) (1)  
 Survey of Animal Industry (1)

**General Electives**

Cadet Teaching (1)  
 Drama I (1)  
 Drama II (1)  
 Student Wellness (1)  
 Student Wellness II (1)  
 Music Appreciation (1)  
 Freshmen Orientation (2)

**Rathbun Area Career Academy/Indian Hills Community College Courses**  
**(Credit earned for Centerville High School)**

**Agriculture (1st Year)**

Fundamentals of Soil Science (1)  
Soil and Water Conservation (1)  
Animal Health (1)  
Principles of Agronomy (1)  
Beef Cattle Science (1)

**Agriculture (2nd Year)**

Equine Science (1)  
Natural Resources (1)  
Issues in Sustainable Ag (1)  
Fundamentals of GIS (1)  
Intro to Ag Markets (1)  
Outdoor Power Equipment/Small Engines (1)

**Construction Technology (1st Year)**

Con Tech 1 (1)  
Con Lab 1A (1)  
Con Tech 2 (1)  
Con Lab 2A (1)  
Con Tech 3 (1)  
Con Lab 3A (1)

**Construction Technology (2nd Year)**

Con Lab 1B (1)  
Con Lab 2B (1)  
Con Lab 3B (1)

**Health Sciences (1st Year)**

Nursing Essentials (1)  
How to be Successful in College (1)  
Computer Essentials (1)  
Health Care Exploration (1)  
Introduction to Psychology (1)  
Medical Terminology (1)  
Basic Anatomy & Physiology (1)  
Basic Anatomy & Physiology (1)  
Essentials of Health Records (1)  
Health Records Laboratory (1)

**Health Sciences (2nd Year)**

Nutrition for Food Service (1)  
Nursing Essentials II (1)  
Employment Preparation (1)  
Pharmaceutical Applications (1)  
Health, Law, & Ethics (1)  
Lifecycle Nutrition (1)  
Pathophysiology (1)  
Health, Society, & Aging (1)  
Development Psychology (1)

**Industrial Maintenance (1st Year)**

Classes to be determined

**Industrial Maintenance (2nd Year)**

Classes to be determined

## COLLEGE AND VOCATIONAL PREPARATION

A number of Centerville High School students go on to four-year colleges after high school. We try to encourage the college-bound student to enroll in and complete the courses, which will give them the soundest academic background for college. The Iowa State Board of Regents (which sets guidelines for our three state universities) has now put into effect new admission standards, which take into consideration the number of core courses a student takes during high school.

These admissions standards also include other factors, which include a student's cumulative grade point, class rank and ACT score. These factors are combined in the following formula:

$$\begin{aligned} &\textbf{RAI Score} \\ &(2 \times \text{ACT composite score}) \\ &+ (1 \times \text{percentile high school rank}) \\ &\quad + (20 \times \text{high school GPA}) \\ &+ \underline{(5 \times \text{number of high school core courses})} \\ &\text{Regent Admission Index Score} \end{aligned}$$

After plugging an individual student's data into the formula, the total score of 245 has been designated as the number declaring that, students are automatically accepted (as long as they have also completed specified coursework) to any of the state universities.

A minimum recommended high school background for entry into a four-year college would include the following:

### SUBJECTS

4 years english  
3-4 years mathematics  
3-4 years science

3 years social studies

2-4 years foreign language

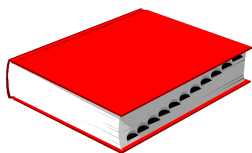
### C.H.S. courses that would meet

Eng. 9, Eng. 10, Eng. 11, Eng. 12. Or College Composition  
Algebra I, Geometry, Algebra II, Pre-Calculus  
Biology, Earth Science/Integrated Science/Unified Science, Chemistry,  
Physics, Advanced Biology, Anatomy/Physiology  
U.S. History I & II, Government, World History I & II,  
World Religions, Psychology, Sociology or Economics  
Spanish I, Spanish II, Elementary Spanish, Intermediate Spanish

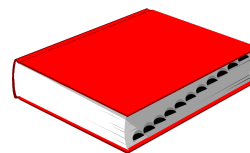
Courses in the fine arts, performing arts, computers, or technology will help round out your high school experience.

Many students are interested in applied or technical training at two-year colleges. We also try to provide a broad high school curriculum for the student who plans for employment or vocational training after high school.

You as students and parents need to take a careful look at your long-term goals and decide what would be the best program of study for you.



# ENGLISH



(8 CREDITS REQUIRED)

## **ENGLISH 9 (full year 2 credits) (REQUIRED)**

**GRADES 9-10-11-12**

English 9 is a one-year, required course. This course builds upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing. This course introduces and defines various genres of literature with writing exercises often linked to reading selections. Students will also continue to develop and improve their skills to think clearly and logically. Students will communicate through writing, listening, reading, and speaking. Each semester students read short stories, informational texts, speeches, seminal documents, and poems and the course also exposes students to the Shakespearean play *Romeo and Juliet*.

## **ENGLISH 10 (full year 2 credits) (REQUIRED)**

**GRADES 10-11-12**

English 10 is a one-year, required course. This course offers a balanced focus on composition and literature. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by authors to deliver their message. This course is designed so students continue to organize and present their analysis and ideas clearly and logically through reading, writing, speaking, and listening within course units that contain short stories, informational texts, dramas, and poetry. Students will respond to these units primarily through claim-driven paragraphs and essays. Students will respond to these units primarily through claim-driven paragraphs and essays. Students will also have the chance to investigate future career possibilities as they research and write a formal research paper that utilizes MLA-style documentation. Students will also read the dramas *Julius Caesar* and *12 Angry Men*.

## **ENGLISH 11 (full year 2 credits) (REQUIRED)**

**GRADES 11-12**

English 11 is a one-year, required course. This course continues to develop students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and begin to learn the techniques of writing research papers. Students continue to read works of literature, which often form the backbone of the writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses. This course blends the study of American literature and composition. Students will experience formal writing including techniques of expository, descriptive, and persuasive writing. The literature core is multicultural and nonsexist and includes Native American, African American, Spanish, and Puritan literature as well as the female perspective and those with handicapping conditions. The time period of the literature studied ranges from 1500 to present. The content also includes American classics such as *The Crucible* and *The Great Gatsby*.

**ENGLISH 12 (full year 2 credits)****GRADE 12**

English 12 is a one-year, elective course for students who are college and university bound. This course blends composition and literature into a cohesive whole as students write critical and comparative analyses of selected literature, continuing to develop their language arts skills. Typically, students primarily write multi-paragraph essays, but they may also write one or more major research papers, better preparing them for post-secondary educational opportunities. This rigorous course includes study of major English authors and the ideas they contributed to our civilization. Students will have an opportunity to perfect their writing ability so that they can write in a concise, knowledgeable way about literary and non-literary subjects. Attention will be given vocabulary building and competent research paper techniques.

**COLLEGE COMPOSITION I (IHCC COURSE ENG105-3 IHCC CREDITS)  
(1 semester 1 credit)****GRADE 12**

***Prerequisite(s): Teacher recommendation and overall high school GPA of 2.6 or Minimum ACT score of 20 or Minimum SAT score of 780 or Minimum Compass score of 70 or, Minimum E-Write Essay Test score of 9 or Minimum AccuPlacer Classic composite score of 200 or Minimum AccuPlacer Next Generation composite score of 710 or Elements of Writing (ENG 101).***

College Composition 1 is a one-semester, elective course that emphasizes analytical writing skills and stylistic competence developed through source-and non-source-based essays. Students will write at least four 800-1000-word essays, including 3-5 source-based essays and no more than one non-sourced essay. Students will respond to written and visual texts drawn from diverse sources and will use documentation correctly. Emphasis will also be placed on essay structure, grammatical correctness, and development of a professional voice through writing.

**COLLEGE COMPOSITION II (IHCC COURSE ENG106-3 IHCC CREDITS)  
PREREQUISITE: IHCC Course ENG105 (College Composition I)  
(1 semester 1 credit)****GRADE 12**

College Composition II is a one-semester, elective course that introduces the student to the process of research writing using the Modern Language Association (MLA) documentation style. "The focus of this course is to enable the student to locate, to evaluate, and to use research to produce correctly documented research essays." A thesis-driven argumentative essay and a thesis-driven report paper, both documented in MLA style, will demonstrate the student's proficiency with the research process. Students will produce approximately 20-30 pages of academic writing.

**COMMUNICATIONS (1 semester 1 credit)****GRADES 11-12**

Communications is a one-semester, elective course. This course focuses on the application of written and oral communication skills through a variety of formal and informal experiences. This course is performance-based and emphasizes effective interpersonal and team-building skills. This course may also involve the study of how interpersonal communications are affected by stereotypes, nonverbal cues, vocabulary, and stylistic choices. In this course, students will learn to communicate effectively and clearly. They will understand the practices and principles of interpersonal communication. Upon completion, students should be able to demonstrate interpersonal communications skills, apply basic principles of group discussion, and manage conflict in interpersonal communication situations.



**MEDIA TECH (YEARBOOK) (full year 2 credits)****GRADES 11-12**

Media Tech is a one-year, elective course. This course gives students responsible for creating and publishing the yearbook and all responsibilities that come with the yearbook, including but not limited to photography, marketing, design, meeting deadlines, writing captions, and articles, collaborating, etc.

**STRATEGIC READING (1 semester-1 credit)****GRADES 11-12**

Strategic Reading is a one-semester, elective course. This course is designed to improve a student's vocabulary, critical-thinking and analysis skills, or reading rate and comprehension level. This course would emphasize works of fiction and may also include works of nonfiction (including textbooks). This course may also have a time-management focus, offering strategies for note-taking or for understanding and evaluation the important points of a text.

**GRAMMAR I (1 semester-1 credit)****GRADES 11-12**

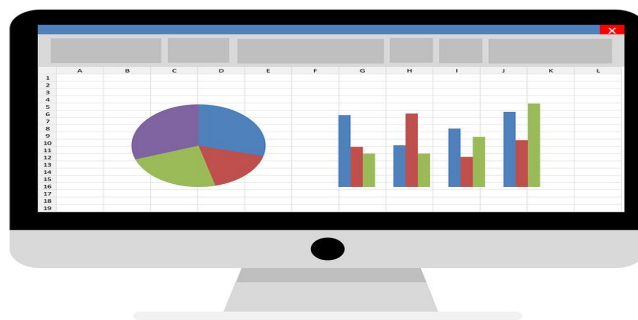
Grammar I is a one-semester, elective course. This course is designed for students in grades 11-12 who need to work on the fundamentals of writing. The purpose of the course is to provide instruction in basic language skills while placing emphasis on the progress of individual students. Course content depends upon students' abilities and may include vocabulary building, improving spelling and grammar, and developing writing and composition skills. The course is designed to develop grammar skills to improve student writing. The course begins with a review of the parts of speech; further topics covered are capitalization, punctuation, spelling, and sentence structure and fluency. Basic writing assignments will also give students opportunities to practice using the elements of grammar to construct sentences and paragraphs.

**GRAMMAR II (1 semester-1 credit)****GRADES 11-12**

Grammar II is a one-semester, elective course. This course is designed for students who need to continue with the fundamentals of writing. This course is designed to assist students in acquiring the skills necessary to pass proficiency standards/examinations. This course may include a review of the elements of grammar. The course will also examine sentence structure, correct verb forms, cases of pronouns, agreement, punctuation, and restrictive and nonrestrictive (that/which) clauses. Short writing assignments, summaries, and essays offer students opportunities to practice the lessons of the course.

**LITERATURE 1 AND LITERATURE 2 (Independent Reading) (1 semester-1 credit)**  
**GRADES 11-12**

Literature/Independent Reading is a one-semester, elective course. This course offers the opportunity for students to study and reflect upon the themes presented in the body of literature being presented. Students improve their critical-thinking skills as they determine the underlying assumptions and values within the reading selection and as they understand how the work reflects society's problems and culture. Oral discussion is an integral part of literature courses and written compositions are often required. This course may survey representative works, reflect a particular genre or a specific theme, or survey works of a particular time or people. Students may choose their reading selections from the College Board recommended list of books recommended for the college-bound student. This list includes classics, contemporary fiction, short stories/essays, plays, and poems students should read before (or during) college.



# MATH

(6 CREDITS REQUIRED)

## **General Math (full year 2 credits)**

**GRADES 9-10**

General Math uses logic puzzles, problems, and explorations to help build students' mathematical ways of thinking. It invites students to experience the coherence and meaning of mathematics. Content includes the language and logic of algebra, geography of the number line and coordinate plane, area and multiplication of polynomials.

## **Pre-Algebra (full year 2 credits)**

**GRADES 9-10-11**

Pre-Algebra is designed to identify and fill gaps of previous knowledge and algebraic reasoning. Content includes work with ratios and proportional reasoning, understanding, and solving numeric and algebraic expressions, and understanding and solving algebraic equations and inequalities.

## **GEOMETRY (full year 2 credits)**

**GRADES 9-10-11-12**

***PREREQUISITE: Algebra I***

Geometry is the study of shape. In Geometry students will examine the properties of and relationships among shapes (including two and three-dimensional shapes), location of shapes, transformations of shapes, special shapes (such as circles and triangles, leading to trigonometry), and reasoning about shape including geometric proof. It is suggested to have a compass, protractor, straight-edge and/or ruler, which are tools of Geometry. Students will learn to use these tools and to perform investigations with them. A scientific or graphing calculator will be necessary.

## **ALGEBRA I (full year 2 credits)**

**GRADES 9-10-11-12**

Algebra I guide students through the process of developing their mathematical abilities by helping them experience a pattern of successful learning that builds self confidence. Students review fundamental concepts: variables, properties of operations and integers and their opposites. Algebra also places emphasis on functions, equations & inequalities, algebraic expressions, rate of change and recursion.

**ALGEBRA II (full year 2 credits)**  
**PREREQUISITES: Algebra I, Geometry**

**GRADES 10-11-12**

Algebra II is a two-semester course, which meets daily and is for those students who have successfully completed Algebra I and Geometry. A graphing calculator is **HIGHLY** recommended for this class, but is not required. This course is designed to build on prior algebraic and geometric concepts. It develops advanced algebra skills focusing on the study of general functions, quadratic functions, exponential functions, advanced polynomials, complex numbers, rational exponents and trigonometric functions. The content of this course is important for student success on both the ACT and college mathematics entrance exams. Students who complete Algebra II are encouraged to take either Math Analysis (for students NOT needing Calculus in their post-secondary education), Pre-Calculus (for students NEEDING Calculus in the post-secondary education), or Statistics and Probability with Consumer Math in consecutive semesters of study.

**CONSUMER MATH (1 semester 1 credit)**

**GRADE 12**

Consumer Math is a one-semester class designed to give students practical financial skills encountered in everyday life. Course content follows the Financial Literacy standards on topics that include checking accounts, borrowing money and figuring interest, savings and personal investments, and home and transportation expenses. *Students must decide if s/he would like to use this class for either a math or financial literacy credit but **NOT** both.*

**PRE-CALCULUS (full year 2 credits)**  
**PREREQUISITES: Algebra, Geometry, Algebra II**

**GRADES 11-12**

Pre-Calculus is a two-semester course, which meets daily and is designed for juniors and seniors. Prerequisites are successful completion of Algebra, Geometry and Algebra II (a performance of C- or better is suggested but not required). Advanced mathematics is the foundation for higher-level courses in math related fields. In our technological society, many vocations and careers require the knowledge of advanced mathematics.

The goal of this course is to prepare students with a sound background directed towards the study of Calculus as the student prepares to enter college. Pre-calculus combines the trigonometric, geometric, and algebraic techniques needed to prepare students for the study of calculus, and strengthens students' conceptual understanding of problems and mathematical reasoning in solving problems. Grasping these topics is especially important for students intending to study calculus, physics, and other sciences, and/or engineering in college.

**STATISTICS AND PROBABILITY (1 semester 1 credit)**

**GRADES 11-12**

Statistics and Probability is a one-semester course, which meets daily and is designed for juniors and seniors, especially those not pursuing or needing Calculus in a post-secondary setting. This course can be scheduled in consecutive semesters. Students will work with probability, data collection, descriptive and inferential statistics, probability, and technological tools to analyze statistics. The main focus of the course will be exploring data, planning a study, producing models using probability theory, and making statistical inferences. Students will work with statistical measures of centrality and spread, methods of data collection, methods of determining probability, binomial and normal distributions, hypothesis testing, and confidence intervals. Students will use multiple representations to present data including written descriptions, numerical statistics, formulas, and graphs.

**MATH ANALYSIS (full year 2 credits)****GRADES 11-12*****PREREQUISITES: Algebra, Geometry, Algebra II***

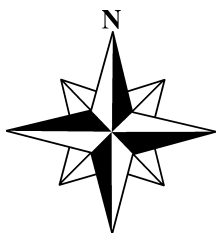
Math Analysis is a two-semester course, which meets daily and is designed for juniors and seniors. Prerequisites are successful completion of Algebra, Geometry, and Algebra II. This course is designed for students who are going to continue their education at a post-secondary institution, but will not be required to complete a Calculus course to complete their requirements for their area of study.

The goal of this course is to prepare students for a course that they may be required to take at their post-secondary institution to meet a mathematics requirement (EX: College Algebra). The content of this course will be similar to that of the Pre-Calculus course, but with not the rigor or the pace. Students will be working with higher level math concepts that will build on their experiences in Algebra II.

**CALCULUS (full year 3 credits)****GRADE 12*****PREREQUISITES: All high school math courses & have taken the ALEKS exam and scored a 75 or higher.*****3 High School credits and 12 semester hours of College credit - taught @ Indian Hills**

The class will meet Mon. - Tues. - Wed. - Thurs. beginning before 8:00 AM and running through the high school 1st hour.

The Calculus class is designed for students who took Algebra I in 8<sup>th</sup> grade and have completed all of the high school math classes including Trigonometry and Pre-Calculus. The course is divided into three college quarters and is called "Geometry and Calculus". A detailed description of each quarter's course content is given in the Indian Hills catalog.



# SCIENCE

(6 CREDITS REQUIRED)



## **INTEGRATED SCIENCE (full year 2 credits) (REQUIRED)**

**GRADES 9-10-11-12**

This course is an introductory level course aimed at 9th grade students. The course will introduce topics (Earth, Chemistry, and Physics) to students that they will learn in more detail throughout their high school careers. This is done through a variety of teaching methods which include: labs, group and individual activities, as well as discussions. Assessment of students will be done through class participation, group and individual projects, labs, homework, quizzes, and tests.

## **BIOLOGY (full year 2 credits) (REQUIRED)**

**GRADES 10-11-12**

***PREREQUISITE: Earth Science/Integrated Science/Unified Science***

Biology is the study of living things. This course will provide the basic knowledge for all students to understand the main characteristics of living things by learning concepts. The scientific method will be used throughout the course. Biological molecules and functions of cells will be discussed in detail. Also, genetics, ecology and evolution will be addressed. This study will prepare students for Advanced Biology, Anatomy, Physiology, and Chemistry.

## **ADVANCED BIOLOGY (full year - 2 credits)**

**GRADES 11-12**

**Teacher Recommendation Required**

***PREREQUISITE: Successful Completion (B+ or better) in Biology and (B+ or better) in Chemistry.***

This course includes an indepth look into the science topics of, the characteristics of life, ecology, cell structure and function, chemistry of life, metabolism, cell division and reproduction, genetics and heredity and evolution by natural selection. Laboratory work includes the use of laboratory tools and metric system measurements, use of the light microscope, observations of cells and studies of the scientific method, ecology, enzyme activity, cellular respiration, molecular biology and Mendelian genetics.

## **OUR ENVIRONMENT (full year 2 credits)**

**GRADES 11-12**

***PREREQUISITE: Biology***

The aim of this course is to increase student knowledge of the environmental challenges of today, while continuing to cultivate scientific critical thinking skills. A year long course designed to show thematic connections between a variety of science disciplines. It gives students a coherent and realistic picture of a variety of scientific concepts and how they manifest in our environment.

**CHEMISTRY (full year 2 credits)****GRADES 11-12*****PREREQUISITE: C or Better in Algebra I – Class will have supply expenses.***

An introductory course where the subject matter is both descriptive and theoretical. The modern atomic theory includes information concerning the structures and properties of atoms, the kinds of compounds they form, and the properties of these compounds.

Chemistry is a subject taught with the ultimate objective of stimulating in the student intellectual development at the formal operational level, to grasp complex relationships within mathematics and science.

Chemistry is a laboratory science to use techniques in handling chemicals safely. Experiments for comparing, correlating, or interrelating new information with existing mental structures.

This course requires a commitment from the student to take relevant notes, attend class consistently, and allow time daily for completion of assignments.

**PHYSICS (full year 2 credits)****GRADES 11-12*****PREREQUISITES: Algebra II and successful completion or concurrently taking Pre-Calculus.***

Physics is the science that deals with the interactions of matter and energy. Mechanics, acoustics, optics, heat, electricity, magnetism, radiation, force, work, and energy, are all topics dealt with in physics.

The course uses logic and mathematics as tools to quantify and describe everyday events like electricity, pressure, force, and light into formulas that can be used to predict results and make decisions. Labs are designed to show how the formulas apply to what actually happens.

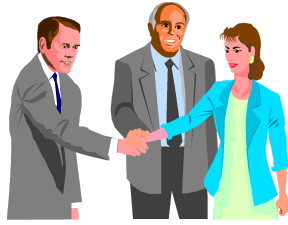
**HUMAN ANATOMY & PHYSIOLOGY I (first semester 1 credit)****GRADES 11-12*****PREREQUISITE: Satisfactory Completion (B+ or Better) of Biology. Chemistry can be taken concurrently.***

This course provides a basic study of the structure and function of the human body. Students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships from the chemical and cellular levels through the organ systems.

Lab covers the lecture topics to confirm anatomical structure of tissues, bones and muscles and the physiological processes of the cardiovascular, respiratory, urinary, and nervous and digestive systems.

**HUMAN ANATOMY & PHYSIOLOGY II (second semester 1 credit)****GRADES 11-12*****PREREQUISITE: Human Anatomy & Physiology I (Chemistry can be taken concurrently)***

See the description above.



# SOCIAL STUDIES

(6 CREDITS REQUIRED)

## **U.S. HISTORY I (1 semester 1 credit) (REQUIRED)**

**GRADES 9-10-11-12**

This course will deal with the time period starting at the end of the Civil War (1865), and cover topics such as the Trans-Mississippi West, Industrialization, Imperialism, the Gilded Age, the Progressive Era, and finish up with World War I. This course is required for all 9<sup>th</sup> graders and will be offered 1<sup>st</sup> semester only.

## **U.S. HISTORY II (1 semester 1 credit) (REQUIRED)**

**GRADES 9-10-11-12**

Continuing where U.S. History I left off, this course starts in 1920 and will cover topics such as the Great Depression, World War II. This course will be for 9<sup>th</sup> graders and will be offered during the 2<sup>nd</sup> semester only.

## **WORLD HISTORY I (1 semester 1 credit) (REQUIRED)**

**GRADES 10-11-12**

This course introduces the student to the early civilizations of the ancient world advancing through the classical Greek and Roman periods, the fall of Rome, the rise of the major world religions, the emergence of the feudal system in medieval Europe, and terminate with the Renaissance. The course incorporates the Iowa Core for Social Studies Essential Concepts and Skills for Geography as well as the Iowa Core for Social Studies Essential Concepts and Skills for History. This course is suggested for all 10<sup>th</sup> graders and will be offered both 1<sup>st</sup> and 2<sup>nd</sup> semester.

## **WORLD HISTORY II (1 semester 1 credit)**

**GRADES 10-11-12**

Beginning with the period immediately following the Renaissance, students will move through absolutism, the Scientific Revolution, the Enlightenment and Early Modern period, the French Revolution, Mercantilism, and Imperialism, up to the First World War. This is an elective that is offered 2<sup>nd</sup> semester only.

## **CULTURAL GEOGRAPHY(1 semester 1 credit)**

**GRADES 10-11-12**

This course will focus on the geography and the developmental history of civilizations that have made major impacts in the formation of the modern day world's cultures. Through our course of study we will look at the geography, heritage, transitions, and the current conditions of various world nations. This course is intended to broaden the knowledge base of students concerning major events and trends among the world. The linking of the past and present will give students a broad perspective on the development of Western and non-Western societies. May make exceptions for qualified freshman.

**WORLD RELIGIONS (1 semester 1 credit)****GRADES 10-11-12**

This course will focus on the 5 major World Religions, as well as numerous cults and alternative methods of worship. This class will be taught from a historical and factual point of view. There will be no focus on any one religion, but a broad overview of each one. We will research each religions creation, evolution and major ideas. Religions studied will be the following; Hinduism, Judaism, Buddhism, Christianity and Islam.

**U. S. GOVERNMENT (1 semester 1 credit) (REQUIRED)****GRADE 12**

U. S. Government is a required one-semester course for seniors only. As opposed to a traditional course on the structure of government, this course seeks to explain how and why people behave politically in the various aspects of life. Specific topics include the use of scientific polls, political culture and socialization, the three branches, the nature of political parties, and state and local governments.

**ECONOMICS (1 semester 1 credit) (REQUIRED)****GRADES 10-11-12**

Economics is a one-semester course available to sophomores, juniors and seniors. It touches on many aspects of the discipline with a special concentration in supply/demand/price relationships, money, inflation and Austrian business cycle theory, and entrepreneurship in the marketplace. Grades 11 and 12 will have priority.

**INTERNATIONAL RELATIONS****GRADES 11-12**

International Relations is a one-semester social sciences class open to all high school grade levels. The study and practice of international relations is interdisciplinary in nature, blending the fields of economics, history, and political science to examine topics such as human rights, global poverty, the environment, economics, globalization, security, global ethics, and the political environment. The class perspective is one of examining the issues confronting foreign nations and regions outside the United States. Global hotspots-military, political, and economic-will be of particular concern and will change as events transpire around the world. Exploration of international issues will be student-driven and researched with results shared in both written and oral form in an environment of open discussion and inquiry.

**Must choose one or both of the courses below. You must take at least one for graduation requirements.**

**PSYCHOLOGY (1 semester 1 credit) (REQUIRED)****GRADES 10-11-12**

This one-semester introductory level psychology will provide students with a historical background of psychology, introduce approaches to understanding people (motivation, personality, etc.), examine how and why people develop and learn, examine normal and abnormal behaviors, show relevance to everyday human experience, explore cultural differences, and why they are different (cultural diversity).

**SOCIOLOGY (1 semester 1 credit) (REQUIRED)****GRADES 10-11-12**

Sociology is essentially the study of Human behavior and Social Structures. In this one semester class we will examine social phenomenon from an academic perspective looking for patterns of social interaction and how those interactions influence human behavior. Through a variety of methods students will explore different sociological ideas from an educative perspective in order to develop their own social perspectives and critical thinking skills.





# BUSINESS



## **COMPUTER APPLICATIONS I (1 semester 1 credit)**

**GRADES 9-10-11-12**

***PREREQUISITE: None***

Computer Applications is a course designed to teach students how to use the computer as a business and personal tool through the use of applications software. Appropriate software (Microsoft Office) for database management, word processing, graphics, and spreadsheets will be used. Students will also perform activities using Google Docs, a free Web-based application in which documents and spreadsheets can be created, edited and stored online. Files can be accessed from any computer with an Internet connection and a full-featured Web browser.

## **COMPUTER APPLICATIONS II (1 semester 1 credit)**

**GRADES 9-10-11-12**

***PREREQUISITE: Computer Applications I***

Computer Applications II is a course designed to build off concepts taught in Computer Applications I. Students will use their knowledge of the application software to complete integrated business/academic projects. Students will also learn basic Web Page design and audio and video editing.

## **INTRODUCTION TO BUSINESS (1 semester 1 credit)**

**GRADES 9-10-11-12**

***PREREQUISITE: None***

This is a basic business course designed to acquaint students with the activities associated with a business. Students will gather a basic understanding of general business, economics, entrepreneurship, business communications, business ethics, and the government's role in business, marketing, and business finance. Overall, the course gives students a broad exposure to business operations and a solid background for additional business courses.

## **FINANCIAL LITERACY (1 semester 1 credit) (REQUIRED)**

**GRADES 9-10-11-12**

Personal financial literacy course is designed to alert, inform, and educate students in concepts of personal finance and money management. Students will begin to develop the skills and strategies that promote personal and financial responsibility related to financial planning, savings, investment, and charitable giving in the global economy. This course will start students on a path toward being in control of their financial futures. Five broad topics will be the foundation of the course: college and career planning, money management, savings and investing, income and spending. The course will teach students to search and assess college and career opportunities, identify and prioritize their personal money management goals, develop personal spending and savings plans, comprehend the impact of time on the value of money, understand the cost of using credit, and protect assets.

**FOUNDATION OF ENTREPRENEURSHIP (1 semester 1 credit)****GRADES 10-11-12****Indian Hills Credit Available BUS 128*****PREREQUISITE: Introduction to Business***

This course is suitable for anyone who dreams of one day becoming his/her own boss. Students will learn how to identify and evaluate opportunities, analyze feasibility, and plan to create and grow successful businesses. The course provides an overview of entrepreneurship and its importance in society and inspires students to recognize entrepreneurial characteristics within themselves. This course combines practical skills with relevant theory to prepare students to think like entrepreneurs. The primary focus is on new venture creation, with a secondary benefit of preparing students to become entrepreneurial employees within existing firms.

**MARKETING (1 semester 1 credit)****GRADES 10-11-12*****PREREQUISITE: Introduction to Business***

Marketing students will examine activities in marketing and business important for success in marketing employment and postsecondary education. Students will learn how products are developed, branded, and sold to businesses and consumers. Students will analyze industry trends and gain hands-on experience in the marketing of goods, services, and ideas. Topics will include professionalism in the workplace, product planning and positioning promotion, pricing selling, economic issues, and the impact of technology on the marketplace. ***\*2<sup>nd</sup> semester only***

**EMPLOYABILITY SKILLS (1 semester 1 credit)****GRADES 10-12**

This course will provide instruction in general employability skills as well as the prerequisite skills for general employability. Students will complete assignments focused on their individual career targets, while developing successful lifetime job search skills and career management tools. Students will also learn job search techniques, such as completing employment applications, preparing letters of application and resumes, and participation in mock interviews and job shadows. This course is designed to guide students through learning workplace readiness skills that can be transferable among a variety of jobs and careers and are considered essential in any employment situation.

**WORK BASED LEARNING (100-135 Hours/2 credits)****GRADES 11-12*****PREREQUISITE: Employability Skills***

WBL is an extended learning opportunity that provides students with real-life work experiences where they can apply academic and technical skills to help develop employability skills. WBL experiences provide all students the opportunity to develop and apply knowledge, skills, and employability attitudes and behaviors leading to better informed career choices and productive employment. Types of WBL opportunities include: job shadows, mentorships, service learning, internships, on-the-job training/cooperative work experiences, pre-apprenticeships, and registered apprenticeships.

**ACCOUNTING I (1 semester 1 credit)****GRADES 10-11-12**

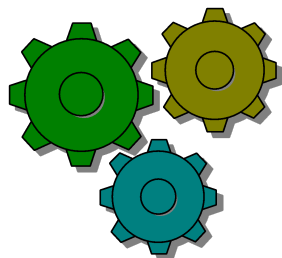
This is a one semester introductory course in double entry accounting procedures. Students will learn to keep financial records for a service business organized as a sole proprietorship. Principles covered include the bookkeeping cycle, debit/credit theory, financial statements, use of various journals and ledgers, worksheets, accounts receivable and payable, and payroll systems. Computers will be used for simulation and projects.

**ACCOUNTING II (1 semester 1 credit)****GRADES 10-11-12*****PREREQUISITE: Accounting I***

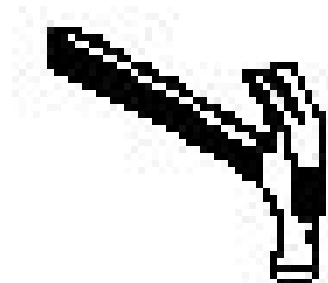
This course will cover the complete accounting cycle for a merchandising business organized as a corporation. The Fundamental principles of accounting will be reinforced, but the course will focus primarily on more advanced accounting concepts and procedures. These procedures include recoding transactions into different types of journals, posting to ledgers, recording purchases returns and allowances, recoding international sales, accounting for uncollectible accounts, plant assets and depreciation, inventory, notes and interest accrued revenue and expenses, and distributing dividends.

**COMPUTER ACCOUNTING (IHCC Course ACC311-3 credits)  
(1 semester 1 credit)****GRADES 9-10-11-12**

This course is designed to provide students with hands-on accounting on the computer using Quickbooks and will incorporate the fundamentals of accounting and how it relates to computers. Prior knowledge of accounting procedures helpful, but not necessary (ACCOUNTING I is highly recommended in order to be highly successful).



# INDUSTRIAL TECHNOLOGY



*Industrial technology is a part of our modern and expanding technology. This technology includes the entire material progress of our civilization from the first stone used as a hammer by primitive man to the complex satellites, which orbit the earth today. Industrial technology courses will help prepare the student for elective living and intelligent citizenship in our industrial society. The following courses will provide educational shop experience, which deals with materials, processes, products, occupations, and problems of the industrial world.*

## **WOODS I (1 semester 1 credit)**

**GRADES 9-10-11-12**

(Student will have a \$35 flat fee for this class)

General Woodworking is an introductory course offered to all students. The course is designed to provide students with a variety of experiences in cabinet making through the production of a required project and a project of the student's choice. Examples of the skills and knowledge the student will gain are:

Wood and wood materials

Measurement and layout

Uses of machine and hand tools

Fasteners

Related careers in industry

Design and planning

Safety of machine and hand tools

Joinery

Finishes

Proper planning, problem solving, and organization are stressed throughout this course.

## **WOODS II (1 semester 1 credit)**

**GRADES 9-10-11-12**

**PREREQUISITE: Woods I**

(Students will have supply expenses for this class)

Woodworking II is a semester course. The course is designed to continue and build on the skills and knowledge learned from General Woodworking. Students will continue to use design, planning, safety, problem-solving, critical thinking, and wood materials to construct a project of the student's choice.

## **PLTW INTRODUCTION TO ENGINEERING (full year 2 credits)**

**GRADES 9-10-11-12**

Introduction to Engineering and Design is a full year course designed to guide students in the career pathways of engineering and technological career pathways. We will cover the principles and concepts of engineering design. Students will be exposed to the engineering process of design and use technology to develop, draw and problem-solve ideas in engineering fields.

**PLTW PRINCIPLES OF ENGINEERING (full year 2 credits)****GRADES 10-11-12*****PREREQUISITE: Algebra I \*PLTW Intro to Engineering recommended but not required.***

This course is Year 2 of the sequenced Engineering courses. This is a full year course and must be taken the full year to receive IHCC credit.

**INTRODUCTION TO WELDING (1<sup>st</sup> semester 1 credit)****GRADES 9-10-11-12**

(Students will have supply expenses for this class)

Intro to welding is an introductory class offered to all students. This primary lab course is designed to provide students with a variety of hands on experiences in various types of welding processes (Arc/MIG) and Oxy-Acetylene torch processes. This course is centered on learning the following concepts: Basic Tool/Equipment Use and Safety along with student enhancement in the areas of mathematics and problem solving.

**INTRODUCTION TO MACHINING (2<sup>ND</sup> semester 1 credit)****GRADES 9-10-11-12**

(Students will have supply expenses for this class)

Intro to machining is an introductory class offered to all students. This primary lab course is designed to provide students with a variety of hands on experiences with various types of metal working machines with includes the following; Lathe, Vertical Mill, Drill Press, Surface Grinder, Tool Grinder. Concepts covered in lab include; General Manufacturing, Metal Processing, Blueprint Reading, Precision Measuring, and Basic Tool/Equipment Use and Safety, along with student enhancement in areas of mathematics and problem solving.

**MACHINE METALS (full year 2 credits)****GRADES 10-11-12**

(Student will have supply expenses for this class.)

Machine Metals is a full year course, open to sophomore, junior, and senior students that have successfully completed the Intro to Welding and Intro to Machining classes.

Machine Metals is a laboratory course. The major emphasis of study and activity is developed around the basic metalworking machines, such as the lathe, vertical and horizontal mill, drill press, tool grinder, and computer operated machines (CNC).

Welding is continued from General Metals with the inclusion of TIG welding, MIG welding and plasma cutting.

The information and activities associated with the machinist trades is the focus of this course. Students experience the mathematics, science, and skills required to set up, maintain and operate metalworking machines. Required setups and machining exercises account for a major portion of the students' time.

**ADVANCED MACHINE METALS (full year 2 credits)****GRADES 11-12**

(Student will have supply expenses for this class.)

Advanced Machine Metals is a full year course, open to juniors and seniors who have successfully completed General and Machine Metals courses.

This project-oriented lab class involves machining parts on the lathe, vertical, and horizontal-milling machine.



# ART

*The visual arts program is for students who are interested in Art either for pleasure or as a career. The primary purposes are:*

- (1) Introduce students to the basic areas of art: criticism, aesthetics, history and production.*
- (2) Enhance their interest in these areas and allowing more free time to work in the artist's interest area.*
- (3) Allow the advanced students to find and explore the art media that interests them. This exploration takes place in the junior and senior years.*
- (4) Instill respect, pride, responsibility, accountability, and creativity in art students.*

**(Students will have supply expenses in these classes.)**

## **INTRODUCTION TO ART (1 semester 1 credit)**

**GRADES 9-10-11-12**

Introduction to Art is open to all high school students interested in the visual arts and is a **prerequisite for all other art classes**. This course gives a student the opportunity to discover art and enhance their abilities. It is designed to provide basic background in:

- 1.) Encouraging creative expression of visual arts.
- 2.) Developing skills in making personal art.
- 3.) Building artistic confidence.
- 4.) Experiencing different art media.

Areas worked in will include drawing, painting, color mixing, design, ceramics and oil pastels, to name a few. Areas investigated will be color, shape, form and space.

## **DRAWING/WATERCOLOR PAINTING (1 semester 1 credit)**

**GRADES 10-11-12**

***PREREQUISITE: Intro to Art***

This course is designed for further creativity and experimenting with drawing materials and watercolors. Drawing with pencil and charcoal, are among the drawing tools to be used. Emphasis will be on the use of form, shape, texture, value, and contrast to create drawings of interest.

In watercolor, students will learn about watercolor washes, wet/dry application, and sponge application. Several opportunities will be provided to experiment with watercolor.

Class will be divided equally between drawing and painting.

## **ACRYLIC AND OIL PAINTING (1 semester 1 credit)**

**GRADES 10-11-12**

**PREREQUISITE:** *Intro to Art*

Creativity and experimentation with acrylic paint or a painting medium that is water base (latex and tempera) are the basic components of Acrylic and Oil Painting class. Students will mix colors, blend colors, paint details, layer paint, and learn to dry brush when appropriate. Painting with freedom and without fear is a goal.

Students are required to pay for their own supplies in this course. This includes canvas, paints, brushes and paint trays. The cost will be approximately **\$30.00** minimum (or more). Students may purchase paint and frames/canvas at craft stores. All cost will be the student's responsibility

Students will be expected to express themselves on assigned projects and independent projects. Students will be allowed the possibility to explore oil paint. Art History will also be explored.

## **CERAMICS (1 semester 1 credit)**

**GRADES 11-12**

**PREREQUISITE:** *Intro to Art*

Ceramics is designed to introduce students to the three-dimensional aspects of art through the use of clay. Ceramic students will work with clay and explore the constructive possibilities through basic building principles of: pinch, slab, coil, and throwing. The use of ceramic glazes and the basic knowledge of an electric kiln are important to the class. Exploring ways to create with clay and decorating clay pieces are key to the course. Students should **NOT** be afraid to get their hands dirty! Art History will also be explored.

## **GRAPHIC DESIGN (1 semester 1 credit)**

**GRADES 11-12**

**PREREQUISITE:** *Intro to Art*

Graphic Design is a computer class that will be similar to a college course and students must be self-motivated. During the semester, students will explore the techniques, tools, and processes used in the creation of graphic design. Experimentation with a variety of illustration techniques and design media is the norm. Adobe PhotoShop and Adobe Illustrator will be used to create projects. We will learn the elements and principles of design along with creating projects such as logo designs, business cards, and product designs. This class requires note taking, sketching and knowledge of computers.

If the student has not passed a computer class at Centerville High School, the student must get prior approval from the instructor and demonstrate numerous computer competencies. Students will use Google Classroom to turn in projects for printing. A portfolio will be expected at the end of the semester of all printed work.

## **INDEPENDENT ART I (1 semester 1 credit)**

**GRADES 12**

**PREREQUISITE:** *Intro to Art, Drawing & Watercolor, Acrylic & Oil Painting, Ceramics*

Students with a strong interest in the arts and a desire for more independent time to create personal work will thrive in Independent Art I. The main interest of the course is to allow students more time to work in their area of expertise. Criticism and aesthetics will be explored in this class. Students are expected to have a grade point of 3.00 or "B" in their art courses. A written contract is expected for this class of what the student wishes to accomplish. Although this class is called "Independent Art" this is a normal class period within the school day.

**INDEPENDENT ART II (1 semester 1 credit)****GRADES 12*****PREREQUISITE: Intro to Art, Drawing & Watercolor, Acrylic & Oil Painting, Ceramics***

This course is a continuation of Independent Art for students with an interest in visual arts. Students are expected to have a grade point of 3.00 or "B" in their art courses. A written contract is expected for this class of what the student wishes to accomplish in their expertise area. Although this class is called "Independent Art" this is a normal class period within the school day.





# FOREIGN LANGUAGE

*Four years of Spanish are taught at Centerville High School. Students should consider studying a foreign language to benefit in travel, to help understand other cultures, as an aid in vocations in an expanding global society, and as a preparation for advanced study. Students planning to go on to college should consider taking at least two years of foreign language study. Students must have a strong desire to learn and willingness to take responsibility for their own work.*

## **SPANISH I (full year 2 credits)**

**GRADES 9-10-11-12**

Students will learn the basics of Spanish through speaking, writing, listening and reading. In addition to the basics of grammar, students will learn about the diverse cultures of Spanish speaking people. No prerequisites are necessary to take this course, but successful Spanish students have very strong English skills. Well-developed study habits are essential as is good attendance since daily work is crucial to student success.

## **SPANISH II (full year 2 credits)**

**GRADES 10-11-12**

***PREREQUISITE: Spanish I or Equivalent***

A more detailed and continuous study of Spanish is involved in Spanish II. Speaking and writing are essential in learning along with listening and reading. Students will also learn more about the culture and life of Spanish people. Daily work is essential for successful completion of this course.

## **ELEMENTARY SPANISH I/II/III (IHCC Course FLS132-3 IHCC Credits)**

**GRADES 11-12**

***PREREQUISITES: Spanish I and II***  
**(1 semester 1 credit)**

A four-skills approach will be used--listening, reading, speaking, and writing in Spanish. Activities and cultural materials will emphasize communicative and cultural competency, as well as begin a solid grammar foundation. Will meet daily with Tuesdays and Thursdays being in class instruction. This class period will be 5th and 6th periods. **Must take all 3 terms to get the full year of Spanish credit.**

## **INTERMEDIATE SPANISH I/II/III (IHCC Course FLS232-3 Credits)**

**GRADE 12**

***PREREQUISITE: Spanish I, II and Elementary Spanish I, II, III***

Intermediate Spanish I, II, and III will continue the review of the skills acquired in the Elementary Spanish sequence. It will also continue instruction in the communicative competencies of reading, writing, listening, and speaking. There will also be a bigger emphasis put on grammar for accuracy and usage. Vocabulary development will contribute to be increased. Students will be required to produce more spoken Spanish with even more emphasis put on pronunciation. Students will be required to communicate more readily in Spanish. Will meet daily with Tuesdays and Thursdays being in class instruction. This class will be 4th period. **Must take all 3 terms to get the full year of Spanish credit.**



# AGRICULTURE EDUCATION

## **AGRI SCIENCE I (full year 2 credits)**

**GRADES 9-10-11-12**

This class covers basic record keeping principles in beginning Supervised Agricultural Experience programs, a FFA unit, and livestock production principles for beef, sheep, swine, equine, and poultry including feeding, nutrition, selection, reproduction, and management. Also covers foodborne illnesses and history of agricultural technology. This course is a prerequisite to the following courses.

## **AGRI SCIENCE II (full year 2 credits)**

**GRADES 10-11-12**

***PREREQUISITE: AGRI SCIENCE I***

The basic principles of soils, conservation of resources, cover crops, crop pests, tillage practices, climate, major crops of Iowa and production of these crops will be covered in this course. A parliamentary procedure unit will also be included in this class. Students will also study resume writing, interviewing skills, and leadership in this class.

## **AGRI BUSINESS I (1 semester 1 credit)**

**GRADES 11-12**

***PREREQUISITE: AG I & AG II***

This course will cover business organizations, cash flow analysis, financial analysis, budgeting, cost and return analysis and least cost rations.

## **AGRI BUSINESS II (1 semester 1 credit)**

**GRADES 11-12**

***PREREQUISITE: AG I & AG II***

This class will include units on sales, marketing, and risk management. Students will plan and carry out an organized sales project.

**NATURAL RESOURCES (1 semester 1 credit)****GRADES 11-12*****PREREQUISITE: AG I & AG II***

During this class, the students will explore careers in Natural Resources and study Fish, Wildlife and Forest Resources, Erosion Control Methods, Wetlands, Outdoor Recreation and Plant Materials. We will also study Aldo Leopold and many of his works.

**AGRICULTURE PRODUCTS (1 semester 1 credit)****GRADES 11-12*****PREREQUISITE: AG I & AG II***

Processing of agricultural products will be examined including food chemistry, food and fiber production, food processing operations, and meats judging through presentations and activities.

**HORTICULTURE I (1<sup>st</sup> semester – 1 credit)****GRADES 10-11-12*****PREREQUISITE: Biology***

This course will include the study of career opportunities in Horticulture, plant nutrient needs, landscape maintenance, bulb plants, and poinsettias will be raised and sold. This class will include extensive hands-on activities.

**SURVEY OF ANIMAL INDUSTRY (IHCC COURSE AGS113-3 CREDITS)****GRADES 11-12*****PREREQUISITE: AG I & AG II*****(1 semester 1 credit)(Offered Fall term, 1st semester class taught at Centerville High School)**

This course discusses the integration of livestock in a sustainable farming system including small-scale production for niche markets. Topics include appropriate breed selection, nutrition, reproduction, diseases, processing, and land management for hogs, poultry, cattle, sheep, and goats.

**\*\*Not required to be enrolled in Ag Academy to take.**

**PRINCIPLES OF HORTICULTURE (IHCC COURSE AGH221-3 CREDITS)****GRADES 11-12*****PREREQUISITE: C or above in Horticulture I (not required to be enrolled in Ag Career Academy to take)*****(1 semester 1 credit)(Offered Spring term, 2nd semester class taught at Centerville High School)**

This course will provide the student with essential knowledge and skills necessary for a solid orientation in horticulture. Areas of study include climate and plant growth, botanical nomenclature, anatomy, propagation, vegetable gardening, fruit trees, flower, and herb gardening. This class will include extensive hands-on activities.



# General Electives

## **CADET TEACHING (1 semester 1 credit)**

**GRADES 11-12**

***Prerequisite: Instructor's Approval***

Cadet Teaching is designed for students who have an interest in learning about teaching as a profession. Cadet teaching provides students opportunities to use their acquired skills and knowledge to help younger students.

Criteria for acceptance into this course will be based on the student's past attendance record, previous grades, applicable subject knowledge and approval of the principal and cooperating teacher.

## **SKILLS LAB (Required for Special Needs Students)**

**GRADES 9-10-11-12**

This course is designed for students who are served in special education. Students will meet daily to work on skill deficit areas identified in their IEP.

## **STUDENT WELLNESS I (1 semester 1 credit)**

**GRADES 10-11-12**

(Upperclassmen will be given priority in the event that class is full)

\*Limited enrollment\*

In Student Wellness, students will examine and assess the positive and negative personal choices they will make in their lifetime, along with their benefits and consequences. This is a discussion based class that will focus on helping students acquiring knowledge to make healthy choices in their lives. Topics covered will include: mental health, stress, and stress relief, nutrition, food choices, personal care, physical activity, substance abuse, and diseases. Students will examine the effects of cultural norms on their health and well-being, as well as the well-being of their community.

Course work will include: participation in class discussion, written reports on various health topics, tests, quizzes, projects on assigned topics.

**STUDENT WELLNESS II (1 semester 1 credit)****GRADES 10-11-12**

(Upperclassman will be given priority in the event that class is full)

(Can take this class prior to Student Wellness I)

Student Wellness II is designed to help students learn to use basic health concepts to enhance their personal, family, and community health. Topics covered include: mental health, nutrition, fitness, personal care, substance abuse, community health, health risks, medical care, and overall wellness.

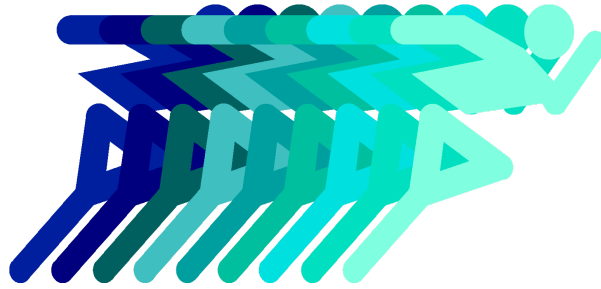
Course work will include: participation in class discussions, written reports, projects, presentations, quizzes, and tests.

**Music Appreciation (1 semester 1 credit)****GRADES 9-10-11-12**

This is a non-performance class that explores music of various styles through listening experiences, music in film, and the history of music. All styles of music are covered (classical, folk, music theater, jazz, popular, etc.). Activities include listening, discussions, projects, and presentations on each style of music.

**Freshman Seminar (Full year 2 credits)****GRADE 9**

Required for all Freshmen to ensure they will have the pathway for success while at Centerville High School and beyond.



# PHYSICAL EDUCATION

## **PHYSICAL EDUCATION**

**GRADES 9-10-11-12**

**(full year-alternating days - 1/2 credit per semester)**

Physical Education is required of all students throughout their four years in high school. Juniors/Seniors will attend class Monday, Wednesday and Friday the first semester and Tuesday/Thursday the second semester. Freshmen/Sophomores will attend on Tuesday/Thursday the first semester and Monday, Wednesday and Friday the second semester. Objectives of the physical education program include the development of acceptable health habits, good posture, worthwhile use of leisure time, knowledge of rules of the activities and fair play.

Every student must meet in gym class at least twice each week. Each individual must provide his or her own uniform and shoes. To receive a passing grade, the student must attend regularly, make-up absences, dress out for class, participate in the activities and follow the standards outlined in the classroom discipline continuum.

## **LOW IMPACT PHYSICAL EDUCATION**

**GRADES 9-10-11-12**

**(full year-alternating days – 1/2 credit per semester)**

(Class cannot be taken in addition to regular PE class)

Activities include walking, jogging, medicine ball workouts, weight lifting and Tae Bo. Students will also learn to monitor heart rates and study proper nutrition.

Eligible students for this class would include students who have failed or scored low on Physical Fitness Tests, students who need to repeat PE class due to failure or lack of participation or students who have health issues (asthma, obesity, pregnancy, etc.)

The class will be limited in size and seniors have first priority.

**Fundamental Training-Periods 1-4  
(1 semester .50 credit) (full year 1 credit)**

The focus of this fundamentals class is to understand and apply basic muscle anatomy and training principles. Once training begins, while there will be progress made physically, the main focus will be building the fundamentals to further the potential for strength, mobility, speed, and power gains going into the advanced section of these training classes.

**\* Will be on alternate days (M, W, F 1st semester & T, TH 2nd semester)**

**Advanced Training-Periods 1-4  
(1 semester .50 credit) (full year 1 credit)**

The focus of the advanced class is to make improvements on strength, mobility, speed, and power. This class will be conducted on a structured strength and conditioning program that will maximize gains in the short amount of time students have in class. Along with improving physically, students will develop a better understanding on how to train and the benefits to their daily lives. At least one semester of Fundamental Training must be completed before enrolling into Advanced Training.

**\*Will be on alternate days (T, TH 1st semester & M, W, F 2nd semester)**

**0-Hour Training-6:30 a.m. M-F  
(1 semester 1 credit for everyday class)**

0-Hour Training will begin at 6:30 a.m. and go until 7:30-7:45. Time to shower and change will be provided for all students to be able to make it to their first hour class on time. 0-Hour will be conducted on a structured program that raises the bar of intensity and volume compared to the Advanced Training class. Individual weaknesses will also be addressed. Students who sign up for 0-Hour are expected to attend Monday thru Friday. At least one semester of Fundamental and Advanced training must be completed before enrolling in 0-Hour.



# MUSIC

*Excellence in music has been a tradition at Centerville High School. Full credit is given for Band, Concert Choir and Drama. Classes are graded and do enter into grade point average.*

## **BEGINNING BAND (full year 2 credits)**

**GRADES 9-10-11-12**

This class will meet daily for a full year and is intended to meet the needs of students that want to learn how to play a band instrument. This is a non-performance class. Students may enroll in this class that are also in high school band with the intention of learning a secondary instrument, as a student who quit when they were in younger grades, or as a true beginner with no prior experience. (Band instruments only...no guitar). Students can supply their own instrument or they may rent one from the school for a nominal fee. Method books, instruction, and all needed classroom materials will be provided by the school.

## **BAND (full year 2 credits)**

**GRADES 9-10-11-12**

The CHS band meets daily. The band curriculum includes Marching Band, Basketball Pep Band, Concert Band, and lessons. Optional performance groups include jazz band 2, solo and ensemble, All State and Honor Band auditions. Students must be enrolled in band for consecutive semesters while at CHS. Once a student drops band, they may not re-enroll unless special permission is given from the director. There is a band handbook available, which includes additional information.

## **JAZZ BAND I (full year 2 credits)**

This is a full year class and will meet every day. Students will learn varying styles of Jazz and perform concerts, public performances and contests throughout the school year. Performing improvised solos is an optional but encouraged part of jazz band. This is an auditioned ensemble comprised of typical jazz band instrumentation. Enrollment in this course is only with the recommendation of the director. Attendance at all performances is an expectation for members of this group.

## **CONCERT CHOIR (1 credit per semester)**

**GRADES 9-10-11-12**

The Concert Choir is chosen by audition only. An advanced mixed honor choir focuses on the preparation of concert literature. Optional performance groups include Triple Trio, Solo, Ensemble and Jazz Choir, Madrigal and Male Octet. Students must be eligible and adhere to the Good Conduct Policy as well as the State Eligibility Criteria. Students must show proficiency in sight-reading, tonal memory and teamwork skills. Auditions are held in the spring of the preceding school year. Students who are new to the district may audition in November at the discretion of the instructor.

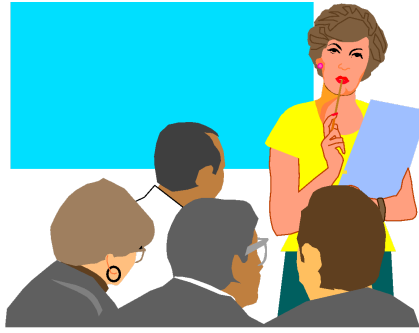


**DRAMA I (1 credit 1<sup>st</sup> semester)****GRADES 9-10-11-12**

Drama I will be offered in the fall (1<sup>st</sup> semester). It is open to any high school student 9-12 interested in learning more about theatre arts. We will study technical elements; scenery, special effects, props, lighting, sound, costumes, choreography, makeup and hair. We will also look at acting and analyzing character and scripts.

**DRAMA II (1 credit 2<sup>nd</sup> semester)****GRADES 9-10-11-12*****PREREQUISITE: Drama I***

Drama II will be offered in the spring (2<sup>nd</sup> semester). A prerequisite is Drama I. In this class, we will be furthering our knowledge of theatre arts through the spoken word-storytelling, improvisation, poetry, prose and acting. We will also experiment with mime and building sets.



# WORK EXPERIENCE

## WORK EXPERIENCE PROGRAM

***Centerville High School provides a work experience program for students in special education. Students interested in getting hands on experience in Community Based employment may participate in this program. This program is based on individual student needs and can be adapted to fulfill student participation.***

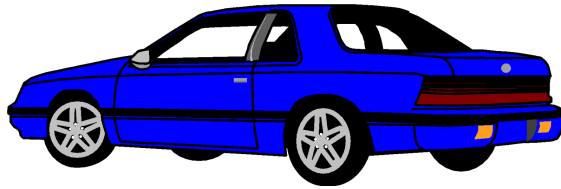
### **WORLD EXPERIENCE CLASS (1 semester 1 credit)**

**GRADES 9-10-11-12**

World of Work is the classroom portion of the Work Experience Program. Freshman work on basic work habits, application forms, budgeting, teamwork, and leadership skills. Sophomores focus on money management, application forms, and researching occupations. Juniors focus on resumes, interviewing techniques, workplace values, and the law in the workplace. These students will complete 3 job shadows of occupations of interest during the semester. Seniors will participate in activities that focus on everyday scenarios such as decisions they will need to set up and manage their households after finishing high school. They will continue activities and skills in the workplace along with completing an updated working cover letter, and resume to assist in post secondary expectations for community based employment.

### **WORK-COMMUNITY BASED WORK EXPERIENCE (2 credits per semester) GRADES 11-12**

A student in special education may participate in Community Based Employment and receive credit for work. A student must attend work 2 periods per day 5 days per week to receive credit. Students may provide their own transportation if the proper forms are completed such as proof of insurance and have their license or transportation could be provided based on individual student needs. Many students work for private employers during the school day which could be extended to working outside of school hours, this arrangement would be between employer and student. A student contract with rules and workplace regulations and work forms must be completed, signed by student, parent, and work experience coordinator.



# DRIVER EDUCATION

## **DRIVER EDUCATION (1 credit)**

Driver Education is a foundation course, which teaches the theory of responsible driving, defensive driving, and emphasis is placed on the introduction of proper safety mechanics of safe driving. The course is designed to improve the student's knowledge of traffic safety and to become safe operators of motor vehicles. The course covers all areas of vehicle operation, legal obligations, maintenance, effects of alcohol and other drugs, with a strong emphasis on distracted driving.

The course meets the all state standards:

- A minimum of twenty minutes of instruction concerning railroad crossing safety
- Instruction relating to becoming an organ donor under the revised uniform Anatomical Gift Act as provided in Chapter 142C
- Instruction providing awareness about sharing the road with bicycles and motorcycles
- 1800 minutes of classroom instruction
- 360 behind the wheel driving
- 6 hours observation of behind the wheel driving

Driver Education is offered through Training Wheels, LLC. At **minimum** two classes through the school year are offered and one in the summer. Classes during the school year are after school and on weekends. Students must attend 30 hours of classroom, 6 hours of driving and 6 hours of observation time mandated by the state. There are no excused absences. For more information on class times and cost go to [www.trainingwheelsde.com](http://www.trainingwheelsde.com) and click on Centerville location.

**All Driver Education students must have a valid Iowa Driving Permit before the class begins.**

# Rathbun Area Career Academy

## Indian Hills Courses

(Credits earned for IHCC)

### Agriculture Academy

Get some dirt under your fingernails. This Academy is about to make agriculture more sustainable. Let's make it happen! Dig deep into a possible career within Sustainable Agricultural and Entrepreneurship at IHCC.

<u>Agriculture-1st Year</u>	<u>Credits</u>	<u>Agriculture-2nd Year</u>	<u>Credits</u>
AGA 154 Fundamentals of Soil Science	3	AGS 216 Equine Science	3
AGH 221 Principles of Horticulture	3	ENV 141 Natural Resources	3
AGN 130 Soil and Water Conservation	3	AGA 450 Issues in Sustainable Ag	3
AGS 242 Animal Health	3	AGP 450 Fundamentals of GIS	3
AGA 114 Principles of Agronomy	3	Intro to Ag Markets	3
AGS 226 Beef Cattle Science	3	Outdoor Power Equipment/Small Engines	3

### Construction Technology Academy

Like to build things, don't want a boring desk job? We didn't think so! Take the construction industry by storm, and build yourself a solid future with our hands-on Construction Technology Academy! You'll learn how to plan, organize, solve problems, and communicate well with others while on the work site. This curriculum will prepare you to finish your degree at IHCC and have a career in residential, commercial, industrial, or public works construction.

<u>Construction Technology-1st Year</u>	<u>Credits</u>	<u>Construction Technology-2nd Year</u>	<u>Credits</u>
CON 276 Con Tech 1	3	CON 451 Con Lab 1B	3
CON 450 Con Lab 1A	3	CON 453 Con Lab 2B	3
CON 277 Con Tech 2	3	CON 455 Con Lab 3B	3
CON 452 Con Lab 2A	3		
CON 278 Con Tech 3	3		
CON 454 Con Lab 3A	3		

## **Health Sciences Academy**

Want to help people for a living but don't know where to start? Are you looking for a one-of-a-kind experience? Ready to advance your skills? The path to your future starts at IHCC! Upon successful completion of this 2 year Academy, students will have the opportunity to accrue over 30 credits towards one of IHCC's 17 Health Science Programs. Note: Students are required to have a cumulative high school 2.5 GPA for admissions into this academy.

<u>Health Sciences-1st Year</u>	<u>Credits</u>	<u>Health Sciences-2nd Year</u>	<u>Credits</u>
PNN 147 Nursing Essentials	3	DTM 200 Nutrition for Food Service	3
SDV 101 How to be Successful in College	3	PNN 148 Nursing Essentials II	2
CSC 105 Computer Essentials	1	HSC 230 Employment Preparation	1
HSC 201 Health Care Exploration	2	HSC 141 Pharmaceutical Applications	1
PSY 111 Introduction to Psychology	3	HIT 141 Health, Law & Ethics	3
HSC 113 Medical Terminology	2	DTM 202 Lifecycle Nutrition	3
BIO 161 Basic Anatomy & Physiology	3	HSC 212 Pathophysiology	3
BIO 199 Basic Anatomy & Physiology Lab	1	HSC 226 Health, Society & Aging	3
HIT Essentials of Health Records	2	PSY 121 Development Psychology	3
HIT 126 Health Records Laboratory	1		

## **Industrial Maintenance Academy**

Classes to be determined