

# CHS | 2018-2019

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## Course Descriptions



**\*Students- talk to teachers if a class not listed below can be offered by them. If you and your classmates need it and the teacher contacts Mr. Luster then we will try to set it up for next year!**

February 15, 2018

Dear Parents and Students,

This course registration booklet is designed to help in selecting courses for the upcoming year at Cassville High School and to help chart the future after high school. Please read the descriptions over and choose carefully. The guidance counselor, faculty, and I are available to help you with your choices.

If you are going to be a 9<sup>th</sup> or 10<sup>th</sup> grader, you will find elective choices limited due to the number of graduation requirements that are also listed in this booklet. It is still important that you list elective choices, however, as offerings will be partially determined by the number of requests received for each class.

If you are going to be an 11<sup>th</sup> or 12<sup>th</sup> grader, you will find you have more choices depending on your goals and how many classes you passed during previous years, but it is also extremely important that you list many elective choices. Depending on what classes are requested and when they will be offered, it is important that you provide flexibility with your schedule.

Please do not hesitate to contact me with any questions or concerns.

Sincerely,

Mr. Luster

## Table of Contents

Graduation Requirements	3
Registration Information	3
Add-Drop Procedure	4
Distance Learning Courses	4
Independent Study	4
College Concerns	4
Technical College Concerns	5
Youth Options	6

### Courses Available by Department

Agriculture	7
Art	9
Business	9
Drama	10
English	10
Foreign Language	12
Health	12
Mathematics	12
Music	13
Physical Education	14
Science	15
Social Studies	17
Technology Education	17
Distance Learning Course Offerings	18

## **REQUIREMENTS FOR GRADUATION FROM CASSVILLE HIGH SCHOOL**

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- English: 4 credits**  
Courses Include: English 9, English 10, Junior Lit., Written Com., Senior Lit., & Public Speaking.
- Mathematics: 3 credits required & either math or science must be 4 credits required**  
Courses Include: Algebra I, Algebra II, Geometry, Pre-Calculus, Calculus, Math Matters I, II, & III, Statistics, Trigonometry
- Sciences: 3 credits required & either math or science must be 4 credits required**  
Courses Include: Anatomy and Physiology, Animal Science, Biology I, Biology II, Chemistry, Chemistry II, Criminalistics, Dairy Science, Earth Science, Environmental Science, Horticulture, Physics, Soil and Crop Science, Veterinary Science, (some of these credit options may not be counted as science credits by some colleges, and students must **pass** Earth Science and Biology in order to graduate)
- Social Studies: 3 credits and Civics exam (65 %+)**  
Courses Include: Government (required), Psychology, Social Issues, U.S. History, World Civilization, World Geography, and all students must **pass** a Civics exam (65% +) in order to graduate high school in Wisconsin.
- PE: 2 credits**  
Courses Include: PE, Personal Fitness, and Advanced Pers. Fitness (offered ½ credit each year)
- Business: 1 credit-** (Required: Information Processing and Personal Finance)  
Other Business Courses electives include: Accounting I & II, Desktop Publishing, Intro. to Business I & II, and Web Page Design.
- Health: 1/2 credit** (students must **pass** Health in order to graduate)

**\*\*\*\*\*17.5 credits required courses + 8.5 elective credits = 26 credits to graduate \*\*\*\*\***

**NOTES:** The school reserves the right to establish minimum enrollment limits appropriate to the classes listed in this booklet. A class may be cancelled, split into two sections, balanced for enrollment, have the instructor changed, or offered by distance learning network as needed by the school. Other administrator pre-approved or transfer credits may be used towards graduation requirements and graduation requirements may be different for students with an IEP.

Material fees will be established prior to the beginning of each school year.

Regulations regarding such matters as grading, attendance, etc. are contained in the Student Handbook or are distributed the first day of class.

### **REGISTRATION INFORMATION**

A unit of credit is earned in a full year course which meets 5 days per week. A 1/2 credit is earned in the following ways:

- A semester course which meets 5 days per week.
- A year long course which meets on alternating days during a week.
- A year long course which meets a minimum of 1/2 of the school days.
- A year long teacher assistant course which meets every day.

### **ADD-DROP PROCEDURE**

Add-drops are strongly discouraged. Any student who would like to change his/her schedule must do so during the first week of the first semester and during the last week of the 2nd quarter and 1st week of the 3rd quarter for the 2nd semester classes. Schedules will be changed for the following reasons:

- Administrative/counselor recommendation
- Teacher recommendation with administrative approval
- A student request supported with the approval of the teacher and/or administration.

Students will not be permitted to drop classes simply because they do not like the teacher or the course content, or that the course is too hard, or for similar reasons. Only valid reasons will be considered.

Students requesting to drop after the second week period of a new course during the first or second semester, or are dropped at the request of the teacher because of non-academic concerns, will fail the course for the 9 weeks and/or semester.

### **DISTANCE LEARNING COURSES**

Some courses will be taught via distance learning, which is via two-way interactive television at the Cassville studio. **DUE TO FUNDING OBLIGATIONS, STUDENTS WHO SIGN UP FOR THESE COURSES MAY NOT DROP THEM.**

Courses labeled SRTNC will be taught via two-way interactive television. The course may be taught in Argyle, Barneveld, Black Hawk, Cassville, Cuba City, Southwestern, Darlington, Iowa-Grant, Mineral Point, Prairie du Chien, River Ridge, Riverdale, Shullsburg, Southwest Technical College, CESA #3, UW-Platteville or some other institution. The teacher will always be seen and heard by all students at all sites and vice versa. The courses from other high schools carry full Cassville High School credit. Some courses may also carry technical school credit, college credit, or make college credit available (see following sections).

### **INDEPENDENT STUDY**

1-2 semesters

1/2-1 credit

11-12 grade only

On occasion, independent study may be an option for a particular student. Generally, independent study will follow one of two paths:

1. A student, teacher and counselor will determine that the student ought to go beyond a course of curriculum's normal upper limits and independent study is beyond a course of curriculum's normal upper limits and independent study is the best way to do so; OR
2. A student, teacher and counselor will determine that a student ought to pursue course-work not normally available in the curriculum, and that independent study is the best way to do so.

The procedure for establishing an Independent Study course is as follows:

1. The student and teacher discuss the idea of an independent study. This discussion will produce:
  - A. A course outline containing the objectives of the course and the specific materials (i.e. text equipment) necessary for course's successful completion.
  - B. A contract outlining the details of the student/teacher agreement.
  - C. A listing of dates by which the various tasks of the course are to be completed.
  - D. A statement, signed by both teacher and student, that each understands the contract agreement.
  - E. Approval of the agreement by the principal or district administrator.

### **COLLEGE CONCERNS AND PREPARING FOR COLLEGE**

The range of courses offered at today's high school is designed to prepare students with differing interests and abilities for a wide variety of life-after-high-school options. "College prep" courses are particularly appropriate for providing you with the academic background you need to succeed in a degree program at a college or university. Your college preparatory program should help you develop competence in four primary areas-English, mathematics, social studies, and natural science. College preparatory courses are characterized by the academic challenge they present, requiring time and intellectual effort extending beyond the classroom.

## COLLEGE ENTRANCE MINIMUM REQUIREMENTS

Entrance requirements vary somewhat among different colleges and universities. Students interested in attending a particular college or colleges should contact the guidance office as soon as possible to obtain specific information. This should be done early in your high school career. However, most colleges generally accept the following requirements:

### UNIVERSITY OF WISCONSIN SYSTEM

(Varies from campus to campus)

Students graduating from high school are required to take a minimum of 17 high school credits, distributed as follows:

- |  |                           |
|--|---------------------------|
| I. <u>Core College Preparatory Credits</u> | <u>17-19 credits</u>      |
| English                                    | 4 credits                 |
| Mathematics (algebra & above)              | 3 credits                 |
| Social Science                             | 3 credits                 |
| Natural Science (biology & above)          | 3 credits                 |
| Foreign Language (some campuses)           | 2 credits (same language) |
- To determine which courses may be accepted within these categories, see your guidance counselor as soon as possible.
- II. Elective Credits 4 credits  
Chosen from the core college preparatory areas, foreign language (some UW schools require 2 years of the same foreign language like French I & II or Spanish I & II), fine arts, computer science, and other academic areas. Some UW System institutions may also accept technical school courses for some of these 4 elective credits.
- III. College Entrance Examinations  
Some colleges do not require any college entrance examination. Others require either A.C.T. or the S.A.T. See your counselor for information concerning the school or schools you are considering attending. Some technical schools require college entrance exams for certain Associate Degree Programs. You must check with your counselor about what you need.

## COLLEGE CREDIT

Some courses may be taken for college credit. Others may be taken to gain knowledge necessary to take an Advanced Placement Examination. Classes listed as "Advanced Placement" have content that is beginning college level. Successful completion of these courses allows a student to take an optional exam in the course area and receive college credit before going to college if scoring a 4 or a 5 (5 maximum possible) on the exam. It may or may not be necessary to take the exam to take courses listed as AP. The youth options program, explained below, is one method of obtaining college credit.

Students who wish to enroll in college courses as part of youth options must notify the school board (complete form PI-8700A) of the student's intention of enrolling no later than March 1 for a course to be taken in the fall semester and October 1 for a course to be taken in the spring semester. All college credit courses must be prior approved by the administrator and Board of Education. When applying for approved college credits to count towards meeting Cassville High School credit requirements, the following formula shall be used: 3 credits of college work equals ½ Cassville High School credit.

Articulation and transcript credits can also be arranged for some courses between Cassville High School and post-secondary schools. Please see the guidance counselor for more information.

## TECHNICAL COLLEGE CONCERNS

### TECHNICAL COLLEGE AND OTHER SCHOOL REQUIREMENTS

Entrance requirements of other schools vary, depending on the type of school, but it can no longer be assumed that merely graduating from high school guarantees automatic acceptance at vocational and trade schools. Many specialized courses of study (for example practical nursing, engineering, technology) require a certain grade average plus basic courses in English, math, science, and social studies. To be absolutely certain that you will qualify for the school of your choice, see your counselor early in your high school career.

### TECHNICAL COLLEGE COURSES

All technical school courses must be prior approved by the administrator and board of education. When applying for approved technical school credits to count towards meeting Cassville High School credit requirements, the following formula shall be used:

4 credits of vocational schoolwork equal 1 Cassville High School credit.

3 credits of vocation school work equals 3/4 Cassville High School credit.

Note: Exceptions to the above may be made pending a discussion with the technical school instructor and the District Administrator.

Students who wish to enroll in technical school courses as part of youth options must notify the school board (complete form PI-8700A) of the student's intention of enrolling no later than March 1 for a course to be taken in the fall semester and October 1 for a course to be taken in the spring semester.

### YOUTH OPTIONS

Wisconsin's Youth Options program allows public high school juniors and seniors who meet certain requirements (3.5 and senior status at UW-Platteville) to take post-secondary courses at a UW institution, a Wisconsin technical college or one of the state's participating private nonprofit institutions of higher education. Approved courses can count toward high school graduation as well as for college credit.

This program opens the door to greater learning opportunities for motivated students who are considering a technical career, students wishing to begin college early, or students who want to prepare themselves to enter the workforce immediately after high school graduation.

Under Youth Options a student will not have to pay for a college course if the school board determines the course qualifies for high school credit and is not comparable to a course already offered in the school district (a technical college course can be comparable under some circumstances). If the school board approves the course, the student can receive both high school and college credit upon successful completion of the course. A student who successfully completes his or her high school graduation requirements will earn a high school diploma regardless of whether the requirements were met while attending the high school or a college.

Students who wish to enroll in technical school courses as part of youth options must **notify the school board (complete form PI-8700A) of the student's intention of enrolling no later than March 1** for a course to be taken in the fall semester and **October 1 for a course to be taken in the spring semester.**

For clarification or questions on this program, please see the guidance counselor.

### PUBLIC SCHOOL OPEN ENROLLMENT

Wisconsin's inter-district public school open enrollment program allows parents to apply for their children to attend school districts other than the one in which they live.

Wisconsin residents in grade kindergarten to 12 may apply to participate in open enrollment. Students in pre-kindergarten may participate in limited circumstances; parents should call their resident school district administrator to find out if their preschool-aged children qualify.

Parents must submit application forms to nonresident school districts during the dates set by the Department of Public Instruction (DPI) Application forms may be obtained from the Department of Public Instruction website or from any school district.

### NON-DISCRIMINATION POLICY

It is the policy of the Cassville School District, pursuant to S. 118.13, Wis. Stats., and PI 9, that no person, on the basis of sex, race, religion, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation, or physical, mental, emotional, or learning disability, may be denied admission to any school in this district or be denied participation in, be denied the benefits of, or be discriminated against in any curricular, extra-curricular, pupil services, recreational, or other program.

This policy also prohibits discrimination under related federal statutes, including Title VI of the Civil Rights Act of

1964 (race, color, and national origin), Title IX of the Education Amendments of 1972 (sex), and Section 504 of the Rehabilitation Act of 1973 (handicap).

Notes: - The school reserves the right to establish minimum enrollment limits appropriate to the classes listed in this booklet.

- Material fees will be established prior to the beginning of each school year.
- A class may be canceled, split into two sections, balanced for enrollment, or the instructor changed as needed by the school.
- Regulations regarding such matters as grading and attendance are contained in the
- Student Handbook or are distributed the first day of class.



## AGRICULTURE

### Advanced Welding

AGR12

Credit: 1/2

Prerequisite: **Welding II**

Open to: 10-12

Arc welding, including AC, DC, and wire feed welding skills, will be taught. The proper use and care of the equipment will be stressed. Braying and oxyacetylene torch cutting will be included. Fees will be charged for certain materials.

### Introduction to Agriculture

AGR001

Credit: 1

Prerequisite: None

Open to: 9-12

Topics and activities for this class include learning about the FFA organization, study of soils, crops, and livestock. Students also will get certification to operate farm equipment away from the home farm. A nine-week session of shop and shop projects is included.

### Ag Business

AGR013

Credit: 1/2

Prerequisite: None

Open to 9-12

Want to start your own business? This course is an introduction to starting an agriculture business. Students will develop their own business using the AgPlan computer program. Students will learn about the study of business principles, including management, marketing and finance. Students will learn their leadership styles and how to effectively lead a meeting using Parliamentary Procedure.

### Ag Mechanics

AGR005

Credit: 1/2

Prerequisite: None

Open to: 9-12

Ag Mechanics is the study of principles of the internal combustion engine, engine parts, power output, engine sizes, fuels, preventive maintenance, trouble-shooting, and repair of engine. Half of the time is spent in the classroom, and half of the time is spent in the shop.

### Animal Science

SCI003

Credit: 1/2

Prerequisite: None

Open to: 10-12

This semester course will study livestock and the livestock industry, including animal breeding, health, nutrition, and general management in more detail and depth. Species studied include beef, hogs, sheep, and poultry.

### Dairy Science

SCI004

Credit: 1/2

Prerequisite: None

Open to: 10-12

All aspects of dairy cattle and milk production will be studied. This will include milking procedure, feeding, DHIA records, breeding, housing, judging, and health. Dairy Herd Management is an area with a severe shortage of trained people at this time.

### Farm Management & Forages

AGR006

Credit: 1/2

Prerequisite: None

Open to: 9-12

In this class, we study the business aspects of farm ownership and operation. Financing, taxes, enterprise analysis, and record keeping are important. The production of forages will be covered as it pertains to Southwest Wisconsin.

## AGRICULTURE (Cont.)



### Greenhouse Management

AGR007

Prerequisite: None

Greenhouse Management is designed for students to experience and learn the operation and management skills needed to operate a greenhouse business. This will include plant care and growth, heating and cooling, air quality, light quality, ventilation, finding and ordering supplies, seeds and growing media and other aspects which include selling and service to customers during our spring plant sale.

Credit: 1/2

Open to: 9-12

### Horticulture

SCI002

Prerequisite: None

This class provides an introductory study of horticulture and plants in general. We study their economic importance and will grow a large variety of plants in the lab or greenhouse environment. We grow plants in several different mediums, including in soil-less hydroponics' solutions. Students will be able to grow plants and flowers to use at home. Experiments will be conducted in fertility, plant breeding, and different methods of reproduction.

Credit: 1/2

Open to: 9-12

### Wildlife Management

AGRNat

Prerequisite: none

This class is great for students who like to hunt and fish. In this course students will study the management of soil, water, wildlife, forest and air as natural resources. Students will build their own custom fishing rod. Fee for fishing rod supplies is required.

Credit: 1/2

Open to 9-12

### Practical Gardening

AGR008

Prerequisite: None

In this course students will learn about vegetable and fruit production for the home gardener and commercial producer. Students will produce vegetables in the greenhouse and use some of them to experience processing and storage methods. Organic methods and requirements will also be studied.

Credit: 1/2

Open to: 10-12

### Soil & Crop Science

AGR002

Prerequisite: None

Soil and crop science is a more in-depth study of soils and their characteristics and includes soil conservation practices. Fertilizer needs for crop production and soil testing, as well as an in-depth study of crops important in the area and others that have potential in our agri-system, will be covered.

Credit: 1/2

Open to: 9-12

### Veterinary Science

SCI005

Prerequisite: **Animal Science**

This course offers an in-depth look at animal reproduction, health, physiology, nutrition, and general care. This course will include large and small species, including pets. Hands-on activities will include giving injections, administering medication, and some minor surgical procedures.

Credit: 1/2

Open to: 10-12

### Welding I-IV

AGR003

Prerequisite: None

Welding and power tools are the introductory course of arc welding and use of power tools in the shop. Each student will produce some type of shop project or projects. Fees will be charged for certain materials. FFA judging activities and contests will be included.

Credit: 1/2

Open to: 10-12

## ART



### Computer Oriented Art

ART009

Prerequisite: None

Credit: 1/2

Open to: 9-12

Students will develop an awareness of how to use a computer to create art. This course will focus on using Adobe Illustrator and Adobe Photoshop to make artwork. Computer animation is the favorite portion of the class. History of computer art is used to help students understand the art form. Commercial art and how the computer drives the industry will be a focal point. We will study art and design concepts and learn how to use them in computer-generated art. We study current work in advertising and in entertainment. Careers in computer art will be explored.

#### Art 2-D

ART020

Credit: 1/2

Prerequisite: None

Open to: 9-12

The different areas of art that are explored and performed in Art 2-D is drawing, painting, and printmaking. In this introductory course, students will become familiar with and learn how to use the elements of visual design, a variety of materials, processes, and techniques. Students should anticipate a studio-based art class which may include creative problem solving, production of artwork, critiques, self-evaluation, and readings. Other introductions to class include historical and contemporary trends in art, which are explored through visual examples. It is highly recommended to register for Art 3-D in addition to Art 2-D to gain a more complete understanding of art concepts and skills needed to be successful in any advanced art courses.

#### Art 3-D

ART021

Credit: 1/2

Prerequisite: None

Open to: 9-12

The different areas of art that are explored and performed in Art 3-D is sculpture, copper metal tooling, and some craft making. In this introductory course, students will become familiar with and learn how to use the elements of 3-D visual design, a variety of materials, processes and techniques. Students should anticipate a studio-based art class which may include creative problem solving, production of artwork, critiques, self-evaluation, and readings. Other introductions in the class are some historical and contemporary artists that create 3-D art. It is highly recommended to register for Art 2-D in addition to Art 3-D to gain a more complete understanding of drawing up a plan before you create in 3-D form.

#### Advanced Art 2-D

ART005

Credit: 1/2

Prerequisite: **Art 2-D**

Open to: 11-12

Specific areas of art are explored and performed. In this course, students will use the elements of visual design, a variety of materials, processes, and techniques. Students should anticipate an art class that includes creative problem solving, higher production levels of artwork, critiques, self-evaluation, and readings. It is highly recommended to register for Advanced Art 3-D in addition to gain a more complete understanding of art concepts and skills needed to be successful in future advanced art courses beyond high school.

#### Advanced Art 3-D

ART004

Credit: 1/2

Prerequisite: **Art 3-D**

Open to: 11-12

The specific areas of art explored and performed in Advanced Art 3-D are sculpture, copper metal tooling, and some craft making. Students will learn how to improve the elements of 3-D visual design, a variety of materials, processes and techniques. Focus of the class will include the historical and contemporary artists that create 3-D art of the past and present. It is highly recommended to register for Advanced Art 2-D prior to Art 3-D to gain a more complete understanding of drawing up plans before your mastering the 3-D form.

### **BUSINESS**



#### Accounting I

BUS003

Credit: 1

Prerequisite: **Algebra I**

Open to: 9-12

This course provides an understanding of the basic elements and concepts of double entry accounting systems. Activities include the accounting equation, the accounting cycle, entering transactions in journals, posting to ledgers, end-of-fiscal period statements and reports, payroll systems, banking activities, taxes, uncollectible accounts, depreciation, inventories, notes and interest.

## BUSINESS Cont.



### Desktop Publishing

BUS004

Prerequisite: **Information Processing**

Credit: 1

Open to: 10-12

Students learn fundamentals and advanced features of desktop publishing software, including generally accepted publication guides and formats when laying out a publication. The Internet is used as a resource and communication tool. Scanning techniques and software to manipulate images is utilized. Students produce, market, distribute the high school yearbook, publish the high school newspaper and district newsletter, and complete projects for the school and greater community.

### Information Processing\* (required for graduation)

BUS002

Prerequisite: None

Credit: 1

Open to: 9-12

Students continue to develop keyboarding and word processing skills and learn to format several business documents. They will also continue to explore the internet, learn Microsoft Office Suite: Word, Excel, PowerPoint, Access, & Publisher, learn Photoshop CS6, and use video-editing software to create and edit a video. Google Drive Apps are also covered extensively.

### Introduction to Business

BUS010

Prerequisite: **Information Processing**

Credit: 1/2

Open to: 10-12

Introduction to Business will introduce students to the world of business. This course is an excellent overview of several areas of business that students could choose as a career path. These include: Business Organization, Management & Leadership, Marketing, Human Resources, Financial Management, and Production & Business Operations. This course will serve as a background for other business courses taken in high school and in college.

### Intro to Business II – Business/Community Connections

BUS008

Prerequisite: **Information Processing & Intro. To Business**

Credit: 1/2

Open to: 10-12

Students will learn to use Social Media to promote school, business, and community events from a professional businesslike perspective. A strong connection with business and community leaders will be used to accomplish this through Facebook, Twitter, LinkedIn, and website design.

### Personal Finance\* (required for graduation)

BUS001

Prerequisite: **Information Processing**

Credit: 1/2

Open to: 10-12

Personal Finance is designed to provide students with practical money-management skills and an introduction to financial planning. Class covers the fundamentals of money management. Topics include: personal budgeting, consumer and installment loans, credit cards/charge accounts, personal insurance, savings accounts, investments, social security, home ownership, personal taxes, retirement, career and financial planning.

### Web Page Design

BUS006

Prerequisite: **Information Processing**

Credit: 1/2

Open to: 10-12

The goal of this course is to have students acquire usable Web Design skills. This is a complete one-semester course on HTML 5 & Adobe Dreamweaver CS6. Topics covered will include: HTML, Dreamweaver, Designing for Communication, Working with Images, Beyond the Basics, The Design Process, The Production Process, Web Publishing and Maintenance. Most of the learning will be gained through hands-on experience.

## ENGLISH



### English 9

ENG001

Prerequisite: None

Credit: 1

Open to: 9

This course is primarily concerned with grammar: parts of speech, parts of a sentence, et al. There is an added emphasis on literature, primarily an introduction to short stories and novels with attention to theme, plot, and characterization.

### English 10 Composition

ENG002

Prerequisite: **English 9**

Credit: 1

Open to: 10

This course centers on writing paragraphs, compositions, and finally term papers. Students analyze the need for writing in their chosen career field and are introduced to elements of technical writing. During the course, a novel will be read with emphasis on comprehension. Critical thinking skills and vocabulary building are included.

### Junior Literature

ENG003

Prerequisite: **English 10**

Credit: 1

Open to: 11

This course will revolve around literature from colonial America including American Literature from 1915 to the present. Activities will include comprehension, speech, writing, and vocabulary. Students will read a play as well as selected stories from Mark Twain and Jack London anthologies. Juniors will explore in more depth their chosen career area and prepare a formal document in a technical writing format.

### Public Speaking

ENG030

Prerequisite: **English 10**

Credit: ½ EOD for year

Open to: 11-12

Purpose: Students in this course strive to develop their public speaking skills for success in the workplace and secondary training. The course will offer opportunities not only to plan and present speeches but also to develop strategies to deal with anxiety often associated with public speaking. Students who are considering four-year university training and/or technical college training specific to the course Oral/Interpersonal Communication will find the coursework valuable. Short-term requirements include developing impromptu speeches, monologues, and narrative stories, as well as, thank you, welcome, and wedding/christening speeches. One larger speaking topic is required per quarter, and these include poem recitation, declamation, demonstration, and persuasive speaking. This course meets the requirements to earn **3 college credits** in SPEECH through SWTC. For students pursuing a four-year university degree, this course often transfers as college credit in speech.

### Written Communication–Semester 1 & Senior Literature B – Semester 2

ENG004

Prerequisite: **Junior Literature**

Credit: ½ & ½

Open to: 12

This semester course will include the study of written and oral communication skills used in post-secondary training and/or the workplace. Students will create resumes and portfolios, learn successful job interviewing techniques, and investigate gender diversity issues. Specific skills include creating memos, visual aids, and progress reports, as well as writing and delivering oral presentations. **Students may opt to earn 3 college credits in WRITTEN COMMUNICATION through SWTC.** Written Communication is a required course at SWTC for students majoring in the following: accounting, administrative assistant, agribusiness/science technology, finance, child care, criminal justice, culinary management, electro-mechanical technology, golf course management, human services, information technology, marketing, mechanical design, nursing, and supervisory management. Students second semester will take Senior Literature B for ½ credit.

### Senior Literature-Semester 1 & Senior Writing-Semester 2

ENG013

Prerequisite: **Junior Literature**

Credit: ½ & ½

Open to: 12

This course includes an extensive array of literature from a variety of cultures, but it features a preponderance of British and American pieces. The course will utilize a variety of literary types to expose the students to a wide range of literary styles and ideas reflecting a wide range of cultural beliefs. The course will also use regular vocabulary work to both enhance the students' comprehension and extend their vocabularies. The students will be expected to write a literary analysis based on style and on content. Much of the reading will come from the textbook, but there will be an assortment of supplemental books, which may be used in whole or part as befits the material. Students second semester will take Senior Writing for ½ credit.



## FOREIGN LANGUAGE

### Spanish I

SPAN01

Prerequisite: None

Credit: 1

Open to: 9-12

Spanish I lays the groundwork for communicative competency in Spanish. Students learn vocabulary, basic sentence construction (present tense conjugation), and pronunciation in order to speak and write in Spanish. Students study some aspects of Hispanic culture. Activities include memorizing and presenting short dialogues, reading, writing sentences, and learning vocabulary and grammar. Students will be encouraged to speak Spanish in class as much as possible. This course may be offered as a distance-learning course.

### Spanish II

SPAN02

Prerequisite: **Spanish I**

Credit: 1

Open to: 10-12

Spanish II is the continuation of the basics learned in Spanish I. Students learn additional vocabulary, more complex tense conjugations and continue their practice in the pronunciation of words. The culture takes a turn toward Spain and their way of life. The goal of Spanish II will be to continue to develop linguistic proficiency in speaking, writing, listening, and reading. Students will be expected to speak in the target language as much as possible. This course may be offered as a distance-learning course.

### Spanish III

SPAN03

Prerequisite: **Spanish II**

Credit: 1

Open to: 11-12

Spanish I and II laid the groundwork for communicative competence. The goal of Spanish III will be to continue to develop linguistic proficiency in all five skills: speaking, listening, reading, writing, and culture, with emphasis on the oral skill. Literature will also be introduced.

### Spanish IV

SPAN04

Prerequisite: **Spanish III**

Credit: 1

Open to: 12

There will be continued development of linguistic proficiency in all skill levels. The use of the subjunctive in sentence structure will be used. Literature with many famous Spanish authors will be introduced.

## HEALTH



### Health \* (required for graduation)

HEALTH

Prerequisite: None

Credit: 1/2

Open to: 9

Health instruction promotes an active role in protecting, maintaining, and improving an individual's health. Students will learn to develop, establish, and achieve positive lifestyle goals and will receive instruction in first aide, CPR and shaken baby syndrome. This class is required during your freshman year.

## MATHEMATICS



### Algebra I

MATH03

Prerequisite: **Grade 7 Math & Consent of Instructor**

Credit: 0 for grade 8; 1 for grades 9-12

Open to: 8-12

Students in this course will study the basic mathematical concepts on which several other branches of mathematics will build. The course will cover mathematical operations, sets, mathematical properties, exponents, solving systems of equations, and factoring. Much time will be devoted to solving equations and graphing equations. A scientific calculator will be used, and the graphing calculator will be introduced.

### Algebra II

MATH09

Prerequisite: **Algebra I & Geometry**

Credit: 1

Open to: 10-12

This class is a study of linear equations, variations, functions, determinants, sequences, complex and irrational numbers, matrices, exponents, and logarithms.

### Geometry

MATH10

Credit: 1

Prerequisite: **Algebra I (1 or 2 years)**

Open to: 9-12

Geometry is a logic-oriented course, which introduces the concepts of plane geometry. The ideas of the direct proof and logical reasoning are used to give the student an introduction to valid argument use in mathematics or any subject matter. This course will be supplemented with a computer software program.

### Math Matters I, II, and III

MATH21

Credit: 1

Prerequisite: None

Open to: 9-12

Math Matters is a series of courses designed to help students who are looking for an alternative to the normal series of algebra, geometry, and algebra II. The course will cover basic concepts from both algebra and geometry, and it will also focus on an introduction to probability and statistics. It will cover these topics in a very direct, hands-on fashion. This course is open to students of all grade levels.

### Statistics

MATH11

Credit: 1

Prerequisite: **Algebra II or Math Matters**

Open to: 10-12

Statistics is a course all students should consider taking before graduating. You can see the use of statistics and probability every day when you listen to the news, talk about sports, or even play a game of cards with your friends. For those students considering continuing their education after graduating, many colleges, universities, and technical schools are requiring that all students, no matter what major, take this type of course. The course would be great preparation for life after high school.

### Trigonometry

MATH20

Credit: 1

Prerequisite: **Algebra II**

Open to: 10-12

Trigonometry will develop the student's mathematical concepts, improve logical thinking, and help to promote success. The course is offered for the student who desires to continue their study of mathematics. The course is needed for those who wish to continue their education beyond high school in those fields that require a solid background in mathematics. Students will study relations, functions, graphs, trigonometry, polar coordinates, complex numbers, limits, and derivatives.

### Pre-Calculus

MATH04

Credit: 1

Prerequisite: **Algebra II**

Open to: 11-12

Advanced Math is a study of coordinate geometry, polynomials, functions, polar graphing, circle and triangle trigonometry, exponents, logarithms, vectors, sequences, and probability.

### Calculus

MATH05

Credit: 1

Prerequisite: **Pre-Calculus**

Open to: 12

This class is a study of single variable calculus, including limits, derivatives, curve sketching, integrals, and inverse functions. This class may be offered through distance learning originating in or outside of CHS.

## MUSIC



### Band

MUS002

Credit: 1/2 may be taken 4 years

Prerequisite: None

Open to: 9-12

The student will perform on a band instrument in conjunction with other students. The student will be given additional instruction in the form of a private lesson, for one 10-15 minute period each week. Attendance and performance at all parades and concerts are required. Prior experience on a band instrument is preferred, but not required for admittance to the course.

### Chorus

MUS001

Credit: 1/2 may be taken 4 years

Prerequisite: None

Open to: 9-12

Chorus is a performance class with emphasis on group singing, using a variety of music from show tunes to pop to classical. Members participate in several required performance events throughout the year. If they so choose, they also have the opportunity to compete in the WSMA Solo and Ensemble Festival events.

### Handbells

MUS003

Prerequisite: None

Hand bells is a performance class, which alternates with Chorus. Students in hand bells learn to ring up to 5-6 bells each and develop a wide repertoire of music. Members of the Hand Bell Choir participate in several required school and community performance events throughout the year.

Credit: 1/2 may be taken 4 years

Open to: 9-12

### Applied Music

MUS05

Prerequisite: **Consent of instructor**

The course is designed as a college prep course for music majors. (Students studying music in depth.) Students may learn guitar and keyboard basics in this hands-on, self-paced course. Students perform at the music concerts.

Credit: 1/2

Open to: 10-12

## PHYSICAL EDUCATION



### Physical Education 9-12

PE002

Prerequisite: None

The Physical Education instructional program includes fitness testing, flag football, and grass volleyball, field hockey, archery, volleyball, indoor recreational games, bowling, pickle-ball, basketball, weight training, conditioning, softball, tennis, and golf.

Credit: 1/2

Open to: 9

### Personal Fitness

PE001

Prerequisite: PE 9 & **Consent of Instructor**

This course is open to sophomores, juniors and seniors. The physical education department will be covering a higher concentration of muscle building, physical fitness assessment, nutrition, and anatomy.

Credit: 1/2

Open to: 10-12

## SCIENCE



### Animal Science

SCI003

Prerequisite: None

This semester course will study livestock and the livestock industry, including animal breeding, health, nutrition, and general management in more detail and depth. Species studied include beef, hogs, sheep, and poultry. This course will be offered every other year, starting in the 2014-2015 school year. This course would be designed to follow AP Biology Plan B, which is the algebra based version.

Credit: 1/2

Open to: 10-12

### Biology I\* (required for graduation)

SCI006

Prerequisite: None

This course is a laboratory-based science class in which students will study the cell, the molecular basis of heredity, biological evolution, interdependence of organisms, and organization in living systems. A special emphasis will be placed on students doing the work of investigation, as well as reading, writing, discussing and resolving biologically related issues and topics.

Credit: 1

Open to: 10-12

### Chemistry I

SCI013

Prerequisite: **Algebra I**

Chemistry is the study of the structure and properties of matter. The class is recommended for any student with an interest in science and should be taken by college-bound students. This is a lab class that stresses basic procedures, use of lab equipment, and keeping a lab book.

Credit: 1

Open to: 10-12

### Chemistry II

SCI014

Prerequisite: **Chemistry I and Algebra II**

Chemistry II provides an in depth study of advanced topics in Chemistry. Lab procedures and problem solving are stressed. Many topics covered in college chemistry are presented in the course.

Credit: 1

Open to: 11-12

### Criminalistics

SCI009

Credit: 1/2

Prerequisite: **Biology**

Open to: 11-12

This course will give students an opportunity to apply laboratory techniques to a variety of investigative settings. It will promote positive relationships between students and individuals from forensic-related occupations.

### Anatomy & Physiology (A&P)

SCI016

Credit: 1

Prerequisite: **Biology**

Open to: 11-12

This course studies the structure and function of the human body with emphasis placed upon the concepts that help correlate the principles of structure and function.

### Dairy Science

SCI004

Credit: 1/2

Prerequisite: None

Open to: 10-12

All aspects of dairy cattle and milk production will be studied. This will include milking procedure, feeding, DHIA records, breeding, housing, judging, and health. Dairy Herd Management is an area with a severe shortage of trained people at this time.

### Earth Science\* (required for graduation)

SCI010

Credit: 1

Prerequisite: None

Open to: 9

Earth science is a lab based course that provides a study of the earth's lithosphere, atmosphere, hydrosphere, and a brief introduction to astronomy. This course emphasizes the study of energy at work in forming and modifying earth materials, landforms, and continents through geological time.

### Environmental Science

SCI001

Credit: 1/2

Prerequisite: **Biology**

Open to: 10-12

This course surveys key topic areas within environmental science including ecology, alternative energy, and earth systems related to the atmosphere, land, and water science. Topics also include the management of natural resources and analysis of private and governmental decisions involving the environment. Students explore actual case studies, conduct research activities, and interpret data through graphing. Labs are conducted both in and outdoors.

### Food Science

SCI033

Credit: 1

Prerequisite: None

Open to: 11-12

This course would focus more on the "why" of food rather than the "how". Students focus on the principles of chemistry and some biology, and then apply these principles to recipes and food preservation. Class utilizes the former FACE room as well our science classroom/labs.

### Horticulture

SCI002

Credit: 1/2

Prerequisite: None

Open to: 9-12

This class provides an introductory study of horticulture and plants in general. We study their economic importance and will grow a large variety of plants in the lab or greenhouse environment. We grow plants in several different mediums, including in soil-less hydroponic solutions. Students will be able to grow plants and flowers to use at home. Experiments will be conducted in fertility, plant breeding, and different methods of reproduction.

### Physics

SCI015

Credit: 1

Prerequisite: **Algebra I & Geometry**

Open to: 11-12

Physics allows students to explore how the world works through labs, demonstrations, and projects. Emphasis is on basic concepts rather than mathematical solutions. Mechanics, light, sound, electricity, and magnetism are the main topics. Individual projects are an important part of the class.

### Veterinary Science

SCI005

Credit: 1/2

Prerequisite: **Animal Science**

Open to: 10-12

This course offers an in-depth look at animal reproduction, health, physiology, nutrition, and general care. This course will include large and small species, including pets. Hands-on activities will include giving injections, administering medication, and some minor surgical procedures.

### Biotechnology

SCI007

Credit: 1/2

Prerequisite: **3 Sci. credits** (may be concurrent with 3<sup>rd</sup> credit)

Open to: 11-12

In this science course students will be introduced to basic terms and processes of Biotechnology and will use the lab techniques and experimental procedures of molecular biology. Students will also gain an understanding of genetic engineering in order to make informed decisions regarding social and ethical issues.



## SOCIAL STUDIES

### Government\* (required for graduation)

SOC003

Credit: 1/2

Prerequisite: **U.S. History**

Open to: 11-12

Government is a course that will introduce students to their government at the state, national, and local levels. Students will participate in political concepts and discover the rights and responsibilities that they have as citizens of the United States. Students will also be given the opportunity to debate and discuss current political events and to explore and define how government affects their lives.

### Psychology

SOC001

Credit: 1/2

Prerequisite: **U.S. History**

Open to: 11-12

Psychology is a course that is designed to give students a better understanding of the way that people may behave. It will present them with topics of interest to psychologists and people in general. The course looks at the way people see the world, how people develop emotionally and psychologically, and also various psychological concerns that people may have. Psychology can allow for more self-awareness and for more understanding of others. Students will increase their knowledge of others within this course and be able to apply this knowledge to everyday life.

### Social Issues

SOC006

Credit: 1/2

Prerequisite: None

Open to: 11-12

This course is an elective. It will last for a semester. The course will focus on current issues of concern in the United States and the World. Topics that may be covered include: Equity, Poverty, Healthcare, Education and the 'Pop Culture' of the U.S. and the World. In this course students will research and discuss issues from opposing viewpoints. It is hoped that students will become better problem solvers and rational decision makers in our diverse world through this course.

### United States History

SOC002

Credit: 1

Prerequisite: **World Civilization**

Open to: 10-12

This course covers the history of the United States from the discovery and colonization of America to present day U.S. History. The course is designed to make the students aware of their country's history and government.

### World Civilization

SOC004

Credit: 1

Prerequisite: None

Open to: 9-10

The course of World Civilization has as its focus the major events, people, and situations that shaped our world into what it is today. In this course, students will be learning about civilizations from the ancient times to modern times. World Civilization will help students to learn about the cultures of Europe, Asia, Africa, North America, and South America. This course will allow students to see how every culture in our world built upon each other and learned from each other.

World Geography

SOC010

Prerequisite: **U.S. History**

Credit: 1/2

Open to: 11-12

World Geography is the study of the world's peoples, places, and environments, with a focus on world regions. Particular emphasis is placed on students' understanding and applying geographic concepts and skills to their daily lives.



**TECHNOLOGY EDUCATION**

Architecture

TEC019

Prerequisite: **Intro to CADD**

Credit: 1/2

Open to: 9-12

This course offers students the opportunity to explore the fundamentals of drafting and concepts of basic architectural designs. Students will use sketching and CADD to draw examples of room designs. They will also learn about building materials, financing, and building codes. The large final project will be designing and drafting a dream home, with restrictions from the instructor.

Cabinetmaking

TEC005

Prerequisite: **Woodworking**

Credit: 1/2

Open to: 9-12

Students will choose and develop their own goals and objectives. There will be a few lectures, some tests, and lots and lots of shop time. We will be doing projects of a high caliber. Each project will have to meet specific high woodworking standards. This course will also be working with finishing materials and operations. A terrific course for both a vocational and vocational opportunities. Fees will be charged for materials used.

Carpentry/Construction

TEC002

Prerequisite: **Woodworking**

Credit: 1/2

Open to: 9-12

This course will cover several areas of light/residential construction. Background information on terms, tools, techniques, materials and safety will be covered before hands on activities will start.

Home Decorating and Repair

TEC001

Prerequisite: None

Credit: 1/4

Open to: 9-12

This course is intended for students to become familiar with aspects of home construction, dry walling, painting, wallpapering, staining, and varnishing. Other activities will include how to install doors and windows, and how to improve energy efficiency. It will also cover how to repair common problems in the home like faulty switches or outlets, and cracks and holes in the walls. No previous shop experience is necessary. Students will work in small groups to complete short activities.

Introduction to CADD

TEC003

Prerequisite: None

Credit: 1/2

Open to: 9-12

This semester long drafting class is intended as the prerequisite for Mechanical Drafting and Architectural Drafting. Students will get an introduction to drafting by beginning this course with background information in a traditional drafting unit and then begin an introduction into computer-aided drafting. Students will utilize Auto Cad LT, Auto Cad R14, or Auto Cad 2000 software. Students will create 2-dimensional detailed drawings using the software.

CADD II

TEC004

Prerequisite: **CADD I (C+ or higher)**

Credit: 1/2

Open to: 9-12

CADD II will cover advanced drafting skills through the use of common drafting software. Students will be expected to have an understanding of AutoCAD and Solid Works prior to entering this class. Basic skills will need to be applied from CADD. A grade of C+ or higher in CADD will be required to enter this class.

Problem Solving

TEC008

Credit: 1/2

Prerequisite: None

Open to: 9-12

Students will be given a problem, but will not be given a solution to the problem. Either on their own or in groups the students will be expected to solve the project using the problem solving method stages. Students will need to use their creativity to come up with original innovative ideas.

Woodworking I, II and III

TEC006

Credit: 1/2

Prerequisite: None

Open to: 9-12

Students will use machine woodworking equipment. In the classroom, exploration and study is conducted on various machine functions, repair, and maintenance. The students design and build their own projects based on woodworking design and principles. Fees will be charged for wood and materials.

World of Work

TEC009

Credit: 1/4 first quarter

Prerequisite: None

Open to: 12

Students engage in planning for their futures, career exploration, issues relating to entering the workforce, becoming informed consumers, and meeting adult responsibilities. Students will learn interviewing techniques; write resumes, and personal finance.

Work Experience

TEC010

Credit: Up to 2 ¼ credits

Prerequisite: **World of Work or World of Work concurrent**

Open to: 12

Work experience is offered to seniors while they are taking the World of Work class and/or during the following semester. Students are permitted to spend one class period per day at a job site (two hours may be allowed during second semester). The student is monitored and evaluated by a work supervisor and the School-to-Work Coordinator. Within the semester a student can earn .5 credits for 90hours of work or 1 credit for 180 hours or more of work. Working for parents does not qualify as work experience.

**DISTANCE LEARNING COURSE OFFERINGS**

**Courses are subject to change due to availability from the host school.**

**Students interested in a specific area of study or class must list it as one of their electives on their class planner with the abbreviation (DLL).**

**Mrs. Stratton or Mr. Luster will work with CESA 3 to see if your requested class becomes available. You will be placed in one of your other electives until CESA confirms the DLL (Distant Learning Lab) class is set.**