

2019-20
CANNON FALLS
HIGH SCHOOL



REGISTRATION
HANDBOOK

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PREFACE

This registration guide for the academic year has been prepared by the faculty for use by students, parents/guardians and staff members. It is our belief, that every student, as they enter 9th grade, with help from their parents/guardians and school advisors, should prepare a "total high school plan" - a plan which will serve as a blueprint for all four of his/her high school years.

This plan should be based on three factors:

1. The requirements from both Cannon Falls High School and the Minnesota Department of Education.
2. What the student hopes to do upon his/her high school graduation - attend college, attend a technical school or enter the work force.
3. The suggested course requirements for these three career paths; and suggested sequence of courses for these three career paths.

Students should not choose courses simply because their friends choose them. All decisions made about the selection of courses should be serious ones; ones that best meet each student's specific, current, academic and future career needs.

REGISTRATION PROCESS

1. Prepare your total high school plan with help from your parents/guardian and staff.
2. Seek advice from your advisor, counselor, teachers and parents/guardians based upon your total high school plan.
3. Select courses and complete the course request form provided. Course request data is used to tell the school administration which of the many courses listed in this

guide we will offer. After the master schedule is completed, the computer will schedule students. Please remember that once you have selected your course of study for next year, it will be extremely difficult to make changes in your course selection. The Cannon Falls High School policy on schedule changes is firm.

During the first week of the semester the reasons for requesting a schedule change are:

- a. Scheduling error or conflict
 - b. Need to repeat a class due to failure
 - c. Special Education team request
 - d. Dropping a class to secure a study hall if the student has 7 classes.
4. Please note that two (2) signatures are **REQUIRED** on your completed registration form: your signature and your parent/guardian's.

GRADUATION REQUIREMENTS

1. Communication - 4 credits

Communications 9 - 1 credit

Language Arts 10 - 1 credit

Media Studies - .5 credit

Students must choose 1 literature, 1 writing and 1 additional literature or writing class of their choice, 1.5 credits.

Literature Block

Advanced Placement English Literature and Composition* (AP Lit)

Honors Humanities: Modern or Classical World *

Reading Workshop

Novels

Drama: Literature and Presentation

Sci Fi Literature

Science Fiction & Fantasy

Writing Block

Advanced Placement English Language and Composition * (AP Comp)

Practical English

Creative Composition

College Writing

2. Fitness for Life 9 – 1 credit

3. Personal Health and Fitness 10 – 1 credit

4. Math - 3 credits

Grade 8 - Linear Algebra or Algebra I

Grade 9 - Intermediate Algebra or Algebra II

Grade 10 - Algebra II or Geometry

Grade 11 - Geometry or Introduction to Analysis

(Note: UM-Twin Cities, Duluth, Morris and Rochester campuses require four years of high school math for admission.)

Grade 12 - Calculus* or electives (College Algebra or Probability/Statistics)

5. Science – 3 credits

Grade 9 - Physical Science

Grade 10 - Biology or AP Biology*

Grade 11 and 12 - choose from ChemCom, Chemistry*, Physics*, Robotics* for the 3rd required science credit.

(Note: UM-Twin Cities, Duluth, Morris and Rochester campuses all require four years of high school science for admission.)

Choose from these classes for your 4th science credit, if college bound, AP Biology*, Anatomy/Physiology*, Earth System, Space Systems or courses listed above.

6. Social Studies – 4 credits

Grade 9 - Civics 9

Grade 10 - U.S. History or AP U.S. History

Grade 11 - World History or AP World History

Grade 12 - Human Geography of Global Issues - .5 credit/or AP Government Economics - (either in grade 11 or 12)

7. Fine Arts – 1 credit

8. Electives – 7 credits

9. All Minnesota students must fulfill the state assessment requirements.

10. All Minnesota students must complete a college and career readiness curriculum, (Ramp Up to Readiness).

A credit equals one full year of study. **All students must take a minimum of (six) 6 academic classes each semester.**

*These courses are recommended for college bound students.

Student Name _____ Date _____

CREDIT CHECK WORKSHEET
(24 credits needed to graduate)

Communications (4 credits/8 semesters)

- _____ Communications 9
- _____ Communications 9
- _____ Language Arts 10
- _____ Language Arts 10
- _____ Media Studies
- _____ ENG Literature _____
- _____ ENG Writing _____
- _____ ENG Elective _____

Writing

- Advanced Placement Composition (AP Comp)
- College Writing
- Practical English
- Creative Composition
- SciFi Literature

Literature

- Advanced Placement Literature (AP Lit)
- Honors Humanities
- Reading Workshop
- Novels
- Drama

Math (3 credits/6 semesters)

- _____ Algebra I/Intermediate Algebra
- _____ Algebra I/Intermediate Algebra
- _____ Algebra II
- _____ Algebra II
- _____ Geometry
- _____ Geometry
- _____ Intro to Analysis
- _____ Intro to Analysis
- _____ Calculus
- _____ Calculus
- _____ Other/College Algebra
- _____ Other/Probability & Statistics

Fine Arts (1 credit/2 semesters)

Social Studies (4 credits/8 semesters)

- _____ Civics
- _____ Civics
- _____ U.S. History or A.P. U.S. History
- _____ U.S. History or A.P. U.S. History
- _____ World History or A. P. World History
- _____ World History or A. P. World History
- _____ Human Geography or
- _____ AP Government
- _____ AP Government
- _____ Economics (taken in grade 11 or 12)

Physical Education (2 credits/4semesters)

- _____ Fitness for Life 9
- _____ Fitness for Life 9
- _____ Personal Health and Wellness 10
- _____ Personal Health and Wellness 10

Science (3 credits/6 semesters)

- _____ Physical Science 9
- _____ Physical Science 9
- _____ Biology (or A.P. Biology)
- _____ Biology (or A.P. Biology)
- _____ ChemCom or Chemistry or
- _____ ChemCom or Chemistry or
- _____ A.P. Physics or Intro to Robotics
- _____ A.P. Physics or Intro to Robotics

Electives (7 credits/14 semesters)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____

COLLEGE REQUIREMENTS

Admission requirements vary greatly from school to school, and sometimes depend upon the student's selected course of study. Criteria **typically** considered include class rank, ACT or SAT scores, rigorous high school course distribution, and involvement in activities. Your choice of high school courses, and how you do in these courses, will affect your future college admission. The following is a sampling of high school course requirements:

University and State College System

1. Four years of English
2. Three to four years of math (to include Intermediate Algebra, Geometry, Algebra II)
3. Three to four years of science
4. Two years of a **single** second language
5. Three years of social studies (to include U.S. History)
6. One year of visual and/or performing arts **or**
7. One year of world cultures or the arts **or**
8. Two additional units from the above areas of fine arts, computer science or communication arts

Private Colleges - requirements vary greatly—check with your college choice

Most prefer students take at least:

- Four years of English
- Three to four years of math
- Three to four years of science
- Three to four years of social studies
- Two years of a single second language

Remember, each college or university sets standards of preparation that they believe will provide the background necessary for students to succeed at their school. There may be other factors considered in an admission decision as well, such as activities, leadership potential, work experience, etc. This is particularly true at more selective schools. If you anticipate applying to a highly selective university, or if you have an idea of the college(s) you will be applying to in your senior year, you are advised to go to each college's website to research specific courses required for admission to the school(s). The following guidelines may be helpful, or use the website <http://www.iseek.org/mnpos/index.html>.

- Engineering colleges require four years of mathematics. (Drafting is helpful in the engineering program.)
- Nursing, dental hygiene, medical technology, family science, anatomy and physical therapy programs require chemistry.
- Generally, a liberal arts program requires training or proficiency in a world language before graduation from college.
- In the field of medicine and many related sciences, a sequence of higher level science and mathematics in high school is required.

COMMUNITY AND TECHNICAL COLLEGE

The technical colleges have specific entrance requirements for various programs offered. These requirements should be checked carefully by the students, either in the Guidance office or at the individual college.

Cannon Falls Public Schools offers a variety of vocational opportunities through the Agriculture Education, Business Education, Industrial Technology departments. The purpose of this notice is to inform students, parents, employees and the general public that these opportunities are offered regardless of race, color, national origin, sex or disability. Admission in the specific courses is determined by grade level, and in some cases, completion of prerequisite courses. The district has designated the following individuals to coordinate compliance with Section 504 of the Rehabilitation Act of 1973 and Title IX of the Education Amendments Act of 1972.

Section 504 Coordinator

Tim Hodges, MS/HS Principal
820 Minnesota Street East
Cannon Falls, MN 55009
507-263-6800 x 1443
hodges.tim@cf.k12.mn.us

Title IX Coordinator

Jake Winchell
820 Minnesota Street East
Cannon Falls, MN 55009
507.263.6800 x 1410
winchell.jake@cf.k12.mn.us

Alternate Section 504 Coordinator

Jennifer Chappius, Elementary Principal
820 Minnesota Street East
Cannon Falls, MN 55009
507-263-6800 x 1203
Chappius.jennifer@cf.k12.mn.us

Alternate Title IX Coordinator

Beth Giese
820 Minnesota Street East
Cannon Falls, MN 55009
507.263.6800 x 1405
giese.beth@cf.k12.mn.us

A brief summary of program offerings are as follows

Ag Ed

1612 Natural Resources I
1707 Natural Resources II
1708 Companion Animal Science
1705 Horse and Horsemanship
1601 Ag Welding I
1602 Ag Welding II
1614 Small Gas Engines
1603 Basic Auto Maintenance
1704 Ag Exploration
1706 Home and Farm Maintenance

Business Ed

1801 Accounting
1802 Computer Applications
1806 Business Management
1803 General Business
1805 Personal Finance
1804 Law and You
1807 Computer Multimedia

Industrial Tech

1702 Basic Woods
1701 Advanced Woods
1703 Basic Building Construction
1604 Drafting
1709 Fab Lab

CLEP

The College-Level Examination Program® (CLEP) gives students the opportunity to receive college credit for what they already know by earning qualifying scores on any of the examinations. They may earn credit for knowledge they have acquired through independent study, prior course work, on-the-job training, professional development, cultural pursuits, or internships.

<https://clep.collegeboard.org>

NCAA

Students who expect to compete in athletics at Division I or II level colleges need to research the NCAA website: www.eligibilitycenter.org

Please notify the Guidance Office for an official transcript to be sent to them. Also, remember to have your ACT scores sent directly from the testing agency to the NCAA.

WORK FORCE STUDENTS

Students planning to enter the work force immediately after high school should plan their programs carefully. Course selection should be closely related to post high school work plans.

POST-SECONDARY ENROLLMENT PROGRAM (PSEO)

Postsecondary Enrollment Options (PSEO) is a program that allows 10th-, 11th- and 12th-grade students to earn both high school and college credit while still in high school, through enrollment in and successful completion of college nonsectarian courses at eligible participating postsecondary institutions. Most PSEO courses are offered on the campus of the postsecondary institution; some courses are offered online. Each participating college or university sets its own requirements for enrollment into the PSEO courses. 11th- and 12th-grade students may take PSEO courses on a full- or part-time basis; 10th-graders may take one career/technical PSEO course. If 10th- graders taking a CTE PSEO course earn at least a grade C in that class, they may take additional CTE PSEO courses. Students must meet the PSEO residency and eligibility requirements and abide by participation limits specified in Minnesota Statutes, section 124D.09. If a school district determines a pupil is not on track to graduate, she/he may continue to participate in PSEO.

There is no charge to PSEO students for tuition, books or fees for items that are required to participate in a course. Enrolling in a PSEO course does not prohibit a student from participating in activities sponsored by the high school. Funds are available to help pay transportation expenses for qualifying students to participate in PSEO courses on college campuses.

School districts must allow a PSEO student reasonable access to the high school building, computers and/or other technology resources during regular school hours. By March 1 of each year, schools must provide PSEO information to all students in grades 8-11 and their families. To assist the district in planning, students must notify their school by May 30 if they want to participate in PSEO for the following school year.

COURSES NEEDING APPROVAL

These courses REQUIRE a signed permission slip prior to registration.

ART

Independent Art (Grade 12)

COMMUNICATIONS

Advanced Placement Composition

Advanced Placement Literature

Honors Humanities

Reading Workshop

MUSIC

Independent Music (Grades 11 and 12 only)

SCIENCE

Advanced Placement Biology

Chem Com

Basic Physics and Robotics

Advanced Placement Physics

SOCIAL STUDIES

Advanced Placement U.S. History

Advanced Placement World History

Advanced Placement U.S. Government and Politics

ONLINE COURSES TAKEN DURING THE REGULAR SCHOOL DAY

Online classes may be added based on scheduling conflicts and /or credit recovery.

Mrs. Hoffman may help you complete the paperwork that needs to be submitted for enrollment to these programs.

POST-SECONDARY ENROLLMENT

Notify your Counselor of your intention to apply for PSEO by April 1, 2019.

PROGRAMMING OPTIONS

Individuals who currently are NOT attending the regular Cannon Falls High School daytime program are welcome to enroll in educational opportunities that coincide with the individual's status as follows:

Persons who left their last attended school in GOOD BEHAVIOR and GOOD ATTENDANCE standings qualify for OPTION 1.

Persons who left their last attended school in GOOD BEHAVIOR but POOR ATTENDANCE standings qualify for OPTION 2.

Persons who left their last attended school in POOR BEHAVIOR (including behavior documented outside school) and POOR ATTENDANCE standings qualify for OPTION 3.

OPTION 1

- May enroll in regular CFHS daytime classes.
- May work with CFHS staff to develop possible modified schedule.
- May be considered for independent study courses off campus.
- May work with CFHS staff to enroll in alternative programs.

OPTION 2

- May work with CFHS staff to develop possible modified schedule.
- May be considered for independent study courses off campus.
- May work with CFHS staff to enroll in alternative classes.

OPTION 3

- May be considered for independent study courses off campus.

The above is to serve as a programming guideline. School administration, in collaboration with the school counselor and other school staff will make final determination of any perspective student's status, after consideration of all available information.

GLOSSARY

Terms you may find helpful in reading and using this registration guide:

CREDIT - The value given a yearlong course.

CURRICULUM - All the courses offered at CFHS.

COURSE REQUESTS - The preliminary process of selecting courses for the next school term before selections become final.

HALF CREDIT - The value given a semester course.

HYBRID CLASS – A learning environment with a combination of face-to-face and online learning.

ITV – Interactive Television Course

POST SECONDARY ENROLLMENT PROGRAM – (PSEO)

A program open to 10th through 12th graders allowing them to take courses at colleges for both high school and college credit. You must meet required criteria.

PREREQUISITE - Course(s) which must be successfully completed (passed) before you can enroll in more advanced courses.

RAMP UP TO READINESS – College and Career preparation for all students in grades 6-12.

REGISTRATION - The final process of selecting and/or being assigned courses for the next school term.

SEMESTER - One-half of a school year.

COURSE DESCRIPTIONS

AGRI-SCIENCE AND INDUSTRIAL TECHNOLOGY **FAMILY AND CONSUMER SCIENCES**

Welcome to the world of Agri-Science and Industrial Technology. The world is a rapidly changing place as is the industry of agriculture. Nearly 1 in 4 jobs in the United States are agriculturally related. These diversified fields range from natural resources, to horticulture, to animal sciences and animal welfare, to leadership and agri-business. Students are encouraged to take a variety of these courses in an attempt to develop both a vocational interest and personal skills for daily life. Through the discipline of Industrial Technology students will develop: knowledge, quality workmanship, problem-solving, responsibility, positive attitude, critical thinking and social skills which will better enable them to successfully cope in an ever-changing, technological world.

#1701 - ADVANCED WOODWORKING AND CARPENTRY

1/2 Credit

Grades 10-12 (Maximum 16 students)

Students will expand their skills in woodworking and carpentry.

#1601 - AG WELDING I

1/2 Credit

Grades 9 - 12 (Maximum 16 students)

A course offered to students interested in gaining general experience in various areas of shop work including: sheet metal, welding, electricity and other projects. The majority of this course will be spent on lab work and project assembly. This will expose students to arc, mig, oxy-acetylene welding and most of the tools and equipment available in a typical metal shop.

#1602 - AG WELDING II

1/2 Credit

Grades 11 - 12 (Maximum 16 students)

In this course, students will develop specific skills of interest to them, which were introduced in Ag Welding 1. Students will perform numerous advanced welding exercises and construct or restore their own large-scale project such as building a trailer or restoring an old tractor (no automobiles). Students will plan, order, purchase all necessary materials, and work on projects independently. Students must purchase their own safety glasses and welding gloves.

Prerequisite: Successful completion of Ag Welding I.

#1603 - BASIC AUTO MAINTENANCE

1/2 Credit

Grades 11-12 (Maximum 18 students)

This class is designed for male and female students who are interested in the basics of vehicle care and operation regardless of experience. Students will investigate operation of many of the basic vehicle systems and learn what to look for in purchase and when a vehicle is in need of a professional mechanics service. This course will cover the topic areas of: oil change and lubrication, coolant systems and antifreeze, tire changes and rotation, basic maintenance inspection, electrical system and more. There will be hands on experience in each of these areas. ***Prerequisite: Drivers license required.***

#1703 - BASIC BUILDING CONSTRUCTION

2 Credits for full year and 1 Credit for one semester (This is a 2 hour block class)
Grades 11 - 12 (Maximum 10 students)

Looking for a challenge? Maybe remodel an existing home or build a new house. This course will offer students a chance to learn hands on skills in many areas of residential construction. Masonry, carpentry, plumbing, electrical and finish work will all be part of the project. Students will be challenged with decision-making, changes in plans, problem solving, time lines and uncertain weather conditions. This is also a great chance for some students to step out of their comfort zone and try something new. This course will help students build self confidence, responsibility and team working skills.

#1702 - BASIC WOODWORKING AND CARPENTRY

1/2 Credit
Grades 9 - 12 (Maximum 16 students)

This is a woodworking course for the beginner. Students will learn basic skills and the safe use of hand tools, power tools and wood working machines. Students will also learn about wood identification, measurement, a bill of materials, and reading a set of plans. Students will show what they have learned through the construction of small projects.

#1604 - DRAFTING

1/2 Credit
Grades 9 - 12

This course teaches drafting fundamentals and basic constructions as well as problem solving and how to read a set of plans or instructions. Drafting tools and techniques will be used to make all types of drawings, including those used in industry to those you would make for a project at home. Different levels of difficulty (introductory to more challenging drawings) will be offered to meet each student's needs. This class will enable students to design, create and share ideas in a more understandable manner. CAD software will be utilized.

#1709 - FABRICATION PROCESSES (Fab Lab)

1/2 Credit
Grades 9-12 (Maximum 16 students)

Students in this course will use CAD software to design and fabricate projects using metal and wood. This course will take you through the idea creation, development, and implementation stages of fabrication. Students will be exposed to the plasma CNC cutter, the CNC router, and the CNC laser engraver.

#1705 HORSE AND HORSEMANSHIP

1/2 Credit
Grades 9-12

Students in this course will learn to analyze good and bad traits in horses and evaluate horses both under saddle and on halter. Students will also be able to identify the breeds and colors of horses. This course will require numerous field trips to area facilities where observation and participation will help students learn proper care of horses from general grooming to basic horse health. Students will also cover basic biology and chemistry to develop an understanding of the nutrition and anatomy of horses. Time will also be spent on the equipment used within the horse industry and horse industry occupations.

Prerequisite: None.

#1612 - NATURAL RESOURCES I (Intro to the Environment)

1/2 Credit

Grades 9 - 12

A course of study devoted to our natural surroundings. The six major categories of natural resources to be covered are: fish and wildlife, water systems, the land and soil, forestry, energy sources, and recreation. Students will gain knowledge in each of these areas through both outdoor and indoor lab and experimentation activities. Careers and management will also be addressed in each of these areas.

#1707 - NATURAL RESOURCES II (Wildlife and Nature management)

1/2 Credit

Grades 10 - 12

This course focuses on the management techniques and management positions for the six major categories of natural resources discussed in Natural Resources I. Special emphasis will be placed on wildlife management (hunting, poaching, fishing, ethics, and laws regarding these areas). Students are put in the position of natural resource managers as the main focus of this class and will gain practical management experience by managing the school's Environmental Nature Reserve (ENR). Students will be in the continual process of planning and implementing ideas for the ENR to make it the ideal outdoor environmental education tool.

Prerequisite: Successful completion of Natural Resources I

#1614 - SMALL GASOLINE ENGINES

1/2 Credit

Grades 9 - 12 (Maximum 16 students)

This course offers students an introduction to the basic mechanical operation of various types of small gas engines. Students will gain experience as they learn to properly utilize tools and equipment associated with maintenance and repair of small engines. This course includes lots of hands-on activity which gives students experience to troubleshoot basic engine problems.

THIS COURSE IS OFFERED THROUGH ITV

#9605 INTERIOR DESIGN I (ITV semester course) Hybrid

1/2 Credit

Grades 10-12

This course will include a study of housing options, designs, architecture and careers in housing and interior design. Students will plan and design living spaces while considering space, budget and lifestyle. Students will investigate housing options and complete projects to plan living spaces using the principles and elements of design. This is a great class for students interested in learning about careers related to architecture, interior design, real estate or home construction. Guest speakers will be invited to share information on careers in housing and interior design.

#8750 PROTOTYPE ENGINEERING (MACHINIST) CERTIFICATE

Grades 11 AND 12

If you are interested in taking this program, please contact Mrs. Hoffman for more details.

The program is offered by Minnesota State College Southeast in Red Wing. This course is an evening class, one class per semester, for two years, that allows students to graduate with a Prototype Engineering Certificate. This certificate allows you to transfer this certificate into a diploma or towards your associate degree. There are many options after receiving this certificate. You can go right to work as an entry-level CNC machinist, where you can start earning \$14 to \$15/hour, plus your employer may pay for you to finish your degree in the CNC Machine Tool, Industrial Technology or Manufacturing Technology programs. Another option with this certificate is that you can transfer to a 4-year University, and begin a 4-year degree program in engineering.

Class Schedule

Semester 1

Engineering Drawings 1 & 2

Class meets one evening a week for 4 hours

Semester 2

CAD/CAM

Class meets one evening a week for 2 hours

Semester 3

Intro To Precision Machining

Class meets one evening a week for 6 hours

Semester 4

Computer Numerical Control

Class meets one evening a week for 6 hours

ART

Art students at CFHS will be encouraged to use and develop their creative thinking skills. With a variety of art materials we learn to communicate our ideas and experiences as we work. Whether in drawings, paintings, sculpture or computerized images our art speaks for us as individuals. And as we create art of our own we also learn to look at our world, and the art of others, with more educated eyes. Visual art will provide a unique and important dimension to your high school education.

#2101 - ART I

1/2 Credit

Grades 9 – 10 (Grades 11 & 12 that still need an art class for ½ credit)

Art I is an introduction to what the art department has to offer. This class will touch on drawing, design, painting, ceramics, sculpture, crafts and art history. After several media have been introduced, students will explore a chosen medium to a level of mastery.

#2102 - CERAMICS I

1/2 Credit

Grades 10 - 12

Over the past several years clay has been established as a major medium for the art student at CFHS. Through the building of pottery we are faced with a number of creative problems in the construction of functional form. This course starts at the beginning with pinch, coil, slab, and basic wheel techniques, and concludes with some interesting design and glazing problems. There is a \$10.00 lab fee for this course.

Prerequisite: None, but Art I is highly recommended.

#2103 - CERAMICS II

OFFERED IN 2019-20

½ Credit

Grades 10 - 12

In Ceramics II you will have an opportunity to use new techniques on projects that emphasize creative original designs. Advanced work will center on hand and wheel building, raku and black firing, glaze formulation, kiln construction, plus the processing and firing of clay. There is a \$10.00 lab fee for this course.

Prerequisite: Successful completion of Ceramics I

#2104 - CRAFT DESIGN

1/2 Credit

Grades 10 - 12

Craft objects refer to a category of art that tends to be more functional than, for example, a painting or a sculpture. After an introduction to many designing techniques, this course allows us to experience a variety of media that fall into this category. Weaving, batik, rug making, cast and fabricated jewelry, and mosaics are among those areas that will be explored. Good craftsmanship and exciting ideas will be our goal, with patience and time for homework our only prerequisite. There is a \$10.00 lab fee for this course.

Prerequisite: None, but Art I is highly recommended

#2105 - DRAWING & DESIGN I**1/2 Credit****Grades 9 -12 (9TH Grade needs Instructor approval)**

This course lays down the basic foundation for all aspects of art through an introduction to several drawing techniques and media and a variety of projects involving line, shape, form, color, value, texture and space. Drawing and Design I is intended to better equip students with knowledge needed to solve simple design problems encountered in painting, sculpture and commercial art.

Prerequisite: None, but Art I is highly recommended.

#2106 - DRAWING & DESIGN II**OFFERED IN 2018-19****1/2 Credit****Grades 10 -12**

Being an advanced studio course, Drawing & Design II is for students who have a strong commitment toward drawing as a satisfying mode of self-expression. Some of the areas explored in this course are: figure, portrait and abstract images with work from still-life, student models, and reproductions and most important, the imagination. Toward the end of the semester, students will have the opportunity to excel in specific media and subjects of their choice.

Prerequisite: Successful completion of Drawing & Design I

#2113 – GRAPHIC DESIGN**OFFERED IN 2018-19****1/2 Credit****Grades 11 - 12**

In recent years the computer has evolved as an important design tool for the artist. This course uses electronic media to develop designs and products seen in our society. Some of our work ends up on the wall as 2-D art, while other pieces are used for their commercial application. With these designs, finished products (illustrations, ads, 2 and 3-D models) are created.

Prerequisite: Successful completion of Drawing and Design I

#1206 – HONORS HUMANITIES: CLASSICAL WORLD**Full Year Course=1 Credit (1/2 credit Art and 1/credit Communications)****Grades 11-12**

Over the centuries the existence of humankind on this earth has been recorded in many ways. Writing, art, music and architecture can give us special insights into how people lived and thought. Through such records we can gain a special awareness of our ancestors, and ourselves. This course will not be restricted to western thought, but will provide a multicultural approach to our foundations as a society. With this in mind, Humanities is being offered as an advanced level course, presented by two instructors, and intended for college bound or above average students (same course as offered in the Communication/Language Arts department course listings).

Humanities: Modern World will be offered in 2020-21 school year.

Instructor approval is required for this course.

#2107 - PAINTING I**1/2 Credit****Grades 10 - 12**

This course offers students a basic knowledge of the tools and techniques used in painting through an extremely versatile medium, polymer acrylic paint. Areas to be studied include: advanced color theory, preparing a surface to paint on, and an introduction to the techniques of impasto, collage, mixed media, and hard edge. There is a \$10.00 lab fee for this course.

Prerequisite: Successful completion of Art I or Drawing and Design I.

#2108 - PHOTOGRAPHY I**1/2 Credit****Grades 11 - 12**

This introductory course deals with traditional black and white film photography as well as digital photography. It teaches basic functions of both the SLR film camera and the digital SLR camera. Proper camera handling, developing film and prints, darkroom procedures, the basics of Adobe Photoshop, and digital editing will also be taught. We will concentrate on photographic design as it relates to landscape, portraits, fast action, and close-up photography in relation to composition and the elements and principles of design. Students will learn how to control light to produce an aesthetically pleasing image. Be prepared to spend a great deal of time outside of class and in the photo lab. There is a \$10.00 lab fee for this course.

#2109 - PHOTOGRAPHY II**OFFERED IN 2019-20****1/2 Credit****Grades 11 - 12**

Photography II is designed to teach both the artistic and technical merits of photography. In this course, you will be working almost exclusively with digital imaging. There is a \$10 lab fee and having your own digital camera is highly recommended.

BUSINESS EDUCATION

Every Cannon Falls High School student needs to have a basic knowledge of computers and the ability to use a keyboard in order to function in our rapidly changing world. The Business Education Department offers classes to meet that need in a variety of areas for everyone, including both college-bound and those who are going straight to work. Business courses can also prepare students to complete everyday tasks more efficiently such as typing a term paper, balancing a checkbook and expanding their knowledge as consumers and employees.

THESE COURSES OFFERED AT CFHS

#1806 - BUSINESS MANAGEMENT

1/2 Credit

Grades 10 - 12

This course is a continuation of General Business and will introduce you to principles of being a manager and give you the opportunity to work in the school store to apply concepts learned in class. You will also create your own business simulation as a part of a team, and each person will work in a different job to make this business successful. Each team member will take a turn at being the manager in charge of the other workers as they rotate through the various jobs needed to make the business function well.

Prerequisite: None required, but General Business recommended.

#1802 - COMPUTER APPLICATIONS - DESIGN YOUR OWN CLASS

1/2 Credit

Grades 9 - 12

Design your own class by picking four computer applications that you want to learn more about. Choose to work on your keyboarding skills, learn to format various word processing documents, or increase your knowledge of Excel. Learn more about PowerPoint, become a proficient user of the database Access, or use a web text-editor to increase your knowledge in making web pages. This is a work-on-your-own course to learn more about the software you were introduced to in Tech Apps in middle school. You choose the four units you want to work on, and complete projects and simulations in each area you choose for 4-5 weeks.

#1807 - COMPUTER MULTIMEDIA

1/2 Credit

Grades 10 - 12

The student in Computer Multimedia will use the computer to do creative work in several different types of media. Students will create web pages of their own, make movies, learn about web 2.0 tools, and use desktop publishing software among many topics. Adobe PhotoShop will be an integral part of this class. This is a good course for anyone who likes to be creative and work independently on the computer.

Prerequisite: None

#1803 - GENERAL BUSINESS**1/2 Credit****Grades 9-12**

General Business is a class covering basic economic information, different types of businesses, business functions, and entrepreneurship. Students will be given the opportunity to apply their knowledge of various topics at the school store throughout the semesters. In addition, students will test their entrepreneurial skills by developing a small business of their own on paper. If you have ever thought about owning your own business, join this class and see if you can make it in the real world as an entrepreneur!

Prerequisite: None

#1804 - THE LAW AND YOU**1/2 Credit****Grades 9 -12**

Students will study criminal and civil actions, law enforcement, and our court systems through a variety of activities including a mock trial. This course teaches you about your legal rights and responsibilities as a citizen in the U.S. through practical examples and actual court cases.

Students interested in college credit are encouraged to take the CLEP Business Law test at the college of your choice.

#1805 - PERSONAL FINANCE**1/2 Credit****Grades 9 - 12**

This course explores topics such as making wise financial decisions, budgeting, consumer purchasing, banking, credit and taxes. Students will learn these topics through course lectures, guest speakers, hands-on activities and various projects. This course is essential for all students who want to be financially stable and independent.

#1809 - INTRODUCTION TO MARKETING**½ Credit****Grades 11 and 12**

Intro to Marketing you will learn the fundamentals of business and marketing. This class focuses on current topics in business and marketing including the 4 P's: Product, price, Place and Promotion. The class also includes topics on retail sales, business presentations, management, entrepreneurship, ethics, career exploration, and business and marketing plans. Students will need to follow oral and written directions, work well in groups and demonstrate good work habits to be successful in this course.

Prerequisite: General Business

THESE COURSES ARE OFFERED THROUGH ITV

#9805 PERSONAL FINANCE (ITV semester course) **Hybrid**
½ Credit
Grades 10-12

As a "hybrid" class, the learning environment will combine face-to-face (ITV) meeting and online learning. In addition, students will be required to work independently in the Moodle Online Course. Students should be comfortable with technology, disciplined/motivated to work individually, and responsible as time managers. Students will learn strategies necessary to become financially responsible citizens. The "Share, Save, Spend" philosophy will provide practical suggestions for making balanced, thoughtful financial decisions. Through a variety of activities, students will be exposed to current and relevant topics such as identity theft, debit and credit cards, buying a car, and much more.

#9809 WEB DESIGN (ITV semester course) **Hybrid**
½ Credit
Grades 10-12

Do you like being creative? Do you like to share information with others? Are you fascinated by computers? Welcome to Web Design. In this course, students will be responsible for creating and maintaining web-based publications of their own writings, as well as creating a website for a business. Topics of study will include: HTML coding, computer basics, planning and creating web pages using online resources, and photo editing, to name a few.

#9801 ACCOUNTING I **#9810 ACCOUNTING II**
(ITV full year or semester course) **Hybrid**
Full year = 1 Credit **Semester = ½ Credit**
Grades 10-12

As a "hybrid" class, the learning environment will combine face-to-face (ITV) meeting and online learning. Students should be comfortable with technology, disciplined/motivated to work individually, and responsible as time managers. Students will learn the foundational accounting equation and accounting cycle; apply accounting concepts and theory to different types of businesses; explore automated accounting; and gain a better understanding of how to better manage their personal financial affairs. Online working papers will provide students with immediate assessment of their accounting assignments. In addition, students will have the opportunity to apply what they have learned by completing an accounting simulation packet! Students may either take the course as a yearlong accounting course or enroll in only the first semester for a brief introduction to accounting.

#9808 CLEP MARKETING (ITV semester course) Hybrid
½ Credit
Grades 11-12

As a "hybrid" class, the learning environment will combine face-to-face (ITV) meeting and online learning. In addition, students will be required to work independently in the Schoology Online Course. Students should be comfortable with technology, disciplined/motivated to work individually, and responsible as time managers.

This course offers students the opportunity to gain knowledge and fundamental skills in the area of marketing and management. Topics include: the marketing environment; the role of product, price, promotion, and place strategies; and discussion and awareness of consumer issues. We will explore the world of sports and entertainment marketing also. Class time learning includes video cases, hands-on and computer time. Students will conduct market research on a topic and apply marketing concepts into the development of their own business plan. This is certainly an exciting and useful class for not only students interested in a future business career, but also all students from their role as consumers' in our society.

#9807 WETC MultiMedia
½ Credit
Grades 11-12

Students will explore many different forms and programs that exist within the world of technology today. This will consist of learning how use Photoshop, photography, video cameras to create personal movies, etc. to broaden their range of technology that is used in our everyday lives.

COMMUNICATION/LANGUAGE ARTS

COMMUNICATION/LANGUAGE ARTS REQUIREMENTS

The Language Arts curriculum is designed to enhance grammar fundamentals; improve communication skills through speaking, writing and listening; demonstrate an understanding and appreciation of various forms of literature; and provide application and relevance to other subjects and the real world. The necessary prerequisites must be followed.

REQUIRED COURSES

GRADE 9, 10

Communications 9
Language Arts 10

GRADE 11 or 12

Media Studies

Students in grades 11 and 12 are required to select a minimum of one writing and one literature course. **Some courses require permission from an English teacher, special education teacher or counselor. See course descriptions for classes that have prerequisites.**

ELECTIVES

Writing

Advanced Placement English
Language and Composition*
Practical English
Creative Composition
College Writing (1 semester)

Literature

Advanced Placement Literature*
Advanced Placement Composition*
Reading Workshop
Drama: Literature and Presentation
SciFi Literature
Honors Humanities: Modern or
ClassicalWorld *
Novels

* These are the courses that are recommended for college bound students.

THESE COURSES OFFERED AT CFHS

#1210 - COMMUNICATIONS 9

Full Year - 1 Credit

Grade 9

The purpose of this class is for each student to become an accomplished writer and speaker. Students will learn and practice with spelling, grammar, and stylistic skills while writing paragraph and multi-paragraph compositions. The main model of writing will be the five-paragraph essay. For public speaking, students will learn to speak extemporaneously from an outline. Each student will learn to handle various public speaking situations and develop critical listening skills. The course is designed so that writing and speaking are viewed as variations of a single communication method.

#1220 - LANGUAGE ARTS 10

Full Year 1 Credit

Grade 10

In the Language Arts 10 course, students continue to develop their writing skills and become familiar with a variety of literary genres including: short stories, novels and dramas selected from American authors. Students refine research skills and complete a longer-length research paper. Independent reading is a required part of the course. Students may choose an alternative curriculum within the course to earn honors designation.

#9317 - COLLEGE PREP WRITING

1/2 Credit

Grades 11 - 12

This course is a college preparatory class. Students will write in all major genres—expository, persuasive, narrative, etc. Grammar proficiency, practical writing and source crediting are also necessary parts of this class. This class does not offer any opportunity for college credit.

#1204 - CREATIVE COMPOSITION

1/2 Credit

Grades 11 - 12

Creative writing emphasizes the re-discovery of personal creativity and individual voice in a relaxed writing environment. Students write and share their work in peer settings, learning how to discuss and critique their work and the work of peer writers. The class reads numerous modern short fiction pieces, as well as a wide assortment of non-fiction and poetry, and also uses film and photography as a way to inspire writing. Students will write a children's book, short stories, and poetry. Much of the success of the class rests on doing class writing exercises and projects, rather than quizzes and tests. Daily effort and daily work will be stressed.

#1205 - DRAMA: LITERATURE AND PRESENTATION**1/2 Credit****Grades 11 -12**

Drama gives students the opportunity to learn hands on about all aspects of theater. Students will study dramatic literature, the history of theater, fundamentals of play production, and dramatic performance. No previous acting experience is required but acting is a requirement of the class. This course will take students all the way from analysis of a script to its performance on the stage.

#1206 – HONORS HUMANITIES: CLASSICAL WORLD**Full Year -1 Credit (1/2 Art and 1/2 Communications)****Grade 11-12**

Over the centuries the existence of humankind on this earth has been recorded in many ways. Writing, art, music and architecture can give us special insights into how people lived and thought. Through such records we can gain a special awareness of our ancestors, and ourselves. This course will not be restricted to western thought, but will provide a multicultural approach to our foundations as a society. With this in mind, Humanities is being offered as an advanced level course, presented by two instructors, and intended for college bound or above average students (same course as offered in the Art department course listings).

Humanities: Modern World will be offered in 2020-21 school year. Instructor approval is required for this course.

#1207 – MEDIA STUDIES**1/2 Credit****Grades 11-12**

This required course, taken either junior or senior year, meets the state requirement for media literacy. The course's goal is to become critical consumers of the media. Students will look at and analyze a range of media messages through written and oral assignments. We look at how media works, the effects media has on individuals and society, the history of certain media, the business of media including advertising, and journalism. We look at a wide variety of media including TV, radio, movies, books, and the internet.

#1208 - NOVELS**1/2 Credit****Grades 11 -12**

A variety of novels will be the reading requirements for this course. This will include the independent reading of novels, periodic quizzing or testing (objective and essay), discussion groups and related projects. The class will encompass an in-depth look at several literary devices, including theme, characterization, conflict, plot, point of view, author's purpose and techniques, etc. One track of the course - regular novels - will allow a student to read and complete basic course requirements. An honors track with advanced novels will include novels from a college-bound reading list, allowing a student to choose a more difficult curriculum and receive honors credit for the course. Honors credit will be indicated on the report card/transcript.

#1209 - PRACTICAL ENGLISH**1/2 Credit****Grades 11 - 12**

This class is designed for students who need practical English skills for post high school employment and further training programs. In this class there will be a review of basic English grammar and usage, punctuation, clear sentence and paragraph construction. In addition, this class will deal with aspects of technical writing, as well as writing in everyday situations.

Prerequisite: *Approval of course instructor and/or communications teacher.*

#1211 - READING WORKSHOP**1/2 Credit****Grades 11 - 12**

The goal of this course is to improve students reading skill, comprehension, and vocabulary. Students will learn and practice the skills needed to become better readers through a combination of individual and guided instruction. Students will read a variety of fiction and non-fiction selections. This course can be taken only once.

Prerequisite: *Approval of course instructor and/or communications teacher.*

#1201 - ADVANCED PLACEMENT ENGLISH LANGUAGE**AND COMPOSITION (AP Comp) Taught by Mr. Fogarty****1 Credit****Grades 11 - 12**

This rigorous writing-centered course for college-bound juniors and seniors provides intensive preparation in expository, descriptive, narrative, and persuasive writing techniques. Peer feedback and critiquing is an integral part of the course. The reading list focuses on non-fiction essays and texts, drawing most significantly from 20th century writers. The Advanced Placement English Language and Composition Test is an additional opportunity offered in this course.

Prerequisite: *Successful completion of Language Arts 10 and approval of advanced placement course instructor/communications teacher.*

#1202 - ADVANCED PLACEMENT ENGLISH LITERATURE**AND COMPOSITION (AP Lit) Taught by Mrs. Winget****Full Year 1 Credit****Grades 11 - 12**

AP English Literature and Composition will give students a learning experience equivalent to a typical undergrad introduction to literature class. Through close reading of literary texts, students will come to understand how writers use language to provide meaning and to answer the big questions in life. We will ask, "What is art?" and try to determine the qualities of great literature. Our literary analysis will look through the lenses of style and structure, literary theories, diction, figurative language, imagery, selection of detail, language and syntax. Students will also master literary terms. Writing well about literature is a key component of the class. The Advanced Placement English Literature and Composition Test is an additional opportunity offered in this course.

Prerequisite: *Successful completion of Language Arts 10 and approval of advanced placement course instructor/communications teacher.*

THESE COURSES ARE OFFERED THROUGH ITV.

#9201 AP ENGLISH LANGUAGE AND COMPOSITION (ITV full year course)

1 Credit

Hybrid

Grades 11-12

Prerequisites: Students registering for AP English Language and Composition should have a B or better in their prior Language Arts course or a recommendation from a previous Language Arts teacher. In addition, required summer assignments must be completed by course start date. In accordance with the AP College Board course description, this class will engage “students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes” (The College Board, AP English Course Description, May 2007, May 2008: 6). Students will read primarily non-fiction materials in this course and will be given the opportunity to discuss these works and their thoughts/opinions in an online environment as well as the classroom. In addition to non-fiction works, we will also analyze poetry, fiction, and visual materials to examine rhetorical choices and contextual relationships in print and in online sources. Students will also be given instruction in how to analyze rhetorical strategies in the online world and also collaborate with their peers in peer editing, projects, and discussions. This course will culminate in the AP English Language and Composition Exam; students will be given practice questions that will mirror the intensity of the exam. Be aware that this course is the equivalent of an introductory college composition course; it will be rigorous and challenging.

Admittance to the course is contingent on completing a summer reading/writing assignment prior to the beginning of the school year. Students with an average grade in English coursework lower than a B should submit a letter of recommendation from a previous English teacher. It is recommended that students taking both AP English courses should take Language in 11th grade and Literature in 12th grade.

#9202 AP ENGLISH LITERATURE AND COMPOSITION

(ITV full year course)

1 Credit

Grades 11-12

This is a challenging, college level English course. The purpose of this course is to provide students with an understanding of semantic, structural, and rhetorical resources of the English language as they relate to the principles of effective writing. This course is intended to challenge and promote: independent, logical and critical thinking; good study skills and academic achievement. Students will receive college-level instruction in studying a variety of literature representing a spectrum of genres including poetry, short story, drama, fiction and non-fiction. Studies will include British and American authors. Analysis of literature and academic writing in response to the various works and genres are emphasized. Literary terms and devices are scrutinized in works. The course prepares students to take the Advanced Placement exam in the spring. A summer assignment must be completed and is due upon the first meeting date. It is recommended that students have an interest in reading academic works of literary merit.

#9315 WETC – SCIFI/FANTASY LITERATURE**½ Credit****Grades 11-12**

This course will focus on the reading of science fiction and fantasy literature, small and large group discussions, tests, quizzes, and projects. Students will learn the history of the genres, will study and compare specific major texts (novels and short stories), and will explore literary devices at work, such as themes, narrative structure, characterization, conflict, etc.

#9318 WETC – JOURNALISM I**½ Credit****Grades 11-12**

This course is designed for students who have been successful in their English writing courses and are looking for a useful application for their writing skills. Students will study topics such as ethics in journalism, application of an angle as a focus for writing, newspaper article genre, photography and videography, and editing skills. Though there will be occasional tests and quizzes on the required reading material, the focus on the course will be writing and editing. The platform and outlet for student work will be a “sandbox” online newspaper that each student will contribute to and that will be available for others to read. Students will serve as category editors on a rotating basis and will both set and be subject to a series of deadlines. Each student will have the opportunity to write for the following categories: news, features, sports, opinion, arts and entertainment, and interactive media. The course will meet on Monday, Tuesday, Thursday and Friday.

Prerequisite: Open to juniors and seniors who have at least a B average and consider themselves strong writers. Taught by Mr. John Fogarty.

WORLD LANGUAGES

Whether you plan to travel or stay at home, go to college or work after high school, work in international business or a local business, a second language can open doors and broaden your world. Most, but not all, colleges require a second language for admission.

#2001 - SPANISH I

Full Year 1 Credit

Grades 9 - 12

Students will gain basic skills of listening comprehension, reading comprehension, writing, and speaking in Spanish. The primary method of instruction is Total Proficiency through Reading and Storytelling. Music, interactive dialog, reading, and specific grammar lessons will augment the storytelling. Students will learn the most commonly used nouns, verbs in the present and the past tenses, prepositions, and adjectives. The students will learn about the geography and cultures of several Spanish-speaking countries through presentations, videos, music, and readings. Other cultural information will be embedded in lessons.

1st semester Spanish I must be completed with a passing grade in order to continue on to 2nd semester Spanish I. This course is a pre-requisite for Spanish II and must be passed with a minimum grade of C- in the 2nd semester to continue to Spanish II.

#2002 - SPANISH II

Full Year 1 Credit

Grades 10 -12

Students will increase their vocabulary and grammar skills. Students will again be assessed in listening, reading, writing, and speaking skills. Topics could include ordering in a restaurant, daily routines, and others. Various methods of teaching including storytelling, grammar lessons, conversation, reading, and research will be used. Students will read short novels, do listening activities, create and present skits, and watch videos as support for learning and as resources. Cultural information is woven into the curriculum throughout the year.

Prerequisite: Successful completion of Spanish I with a minimum grade of C-. Students must pass 1st semester Spanish II to continue into 2nd semester Spanish II.

#2003 - SPANISH III

Full Year 1 Credit

Grades 11 -12

This course expands language skills adding vocabulary and new tenses and modes. All skills are still assessed. Students start to produce more, including skits, journal entries, and presentations in Spanish. Topics vary from functioning in a hotel or restaurant to health and childhood experiences. Films, short novels, online information, available texts, music and other resources are used.

Prerequisite: Completion of Spanish II with a C- or better for the year.

#2004 - SPANISH IV

1 Credit

Grades 12

This course refines language skills; adding vocabulary, practicing the use of the tenses and modes learned in the first three years, adding small grammar details, increasing communication in all modalities; reading, writing, listening, and speaking. Topics included are travel, future plans, geography and culture, interview skills, and others. Journals, films, and short novels are used along with an online component. **Prerequisite: Completion of Spanish III with a C or better for the year.**

THESE COURSES ARE OFFERED THROUGH ITV

| | | |
|---|-------------------------------|---------------|
| #9005 CHINESE I 1 Credit Grades 9-12 | (ITV full year course) | Hybrid |
|---|-------------------------------|---------------|

Chinese Language and Culture I is the beginning course of a four year sequence that will enable the student to speak, read, write, and understand the official Mandarin Chinese language. In addition the course will help the student understand the culture and heritage of approximately one fifth of the world's population. The focus will be on simple vocabulary building, character recognition, and memorization using Chinese songs, games, and the art of calligraphy.

| | | |
|---|-------------------------------|---------------|
| #9006 CHINESE II 1 Credit Grades 10-12 | (ITV full year course) | Hybrid |
|---|-------------------------------|---------------|

This course is structured for the student to continue the study and mastery of the basic skills of speaking, listening, writing, and reading beginning Chinese. As in Chinese I, the course focuses on modern Mandarin Chinese, but some commonly used formal expressions used only in written Chinese are also included. Students will become acquainted with contemporary Chinese life and the contributions of Chinese culture.

MATHEMATICS

Courses offered at Cannon Falls teach various math skills from simple addition to complex differentiation and integration techniques. While a student may not necessarily use some of the math skills they are taught in school, all students will benefit from the thinking processes that are necessary to develop those skills.

The traditional sequence of math courses for the college bound student is Intermediate Algebra, Algebra II, Geometry, Analysis, Calculus and College Algebra. Check for the necessary prerequisites when registering for courses. **All Math courses must have instructor's recommendation/ approval for you to register.**

REQUIREMENTS

Grade 9: All 9th graders must take a full year of math.
Grade 10-12: Two full years of math or four semesters. See Appendix A for further information.

Note: UM-Twin Cities, Duluth, Morris and Rochester campuses require four years of High School math for admission.

THESE ARE THE COURSES OFFERED AT CFHS.

#1101 – INTERMEDIATE ALGEBRA

Full Year - 1 Credit

Grades 9 – 10

This course will be a continuation of the skills acquired in Linear Algebra. The topics will include: Linear inequalities, Systems of Linear Equations and Inequalities, Properties of Exponents, Operations of Polynomials, Factoring, Graphing and Solving Quadratic Equations, Radical and Rational Functions. Successful completion of this course prepares the student for Algebra II.

Prerequisite: Linear Algebra

#1102 - ALGEBRA II

Full Year - 1 Credit

Grades 9 - 11

This course will be a continuation of Intermediate Algebra but will deal with the solution of more difficult equations and inequalities and will be used in practical word problems. Students will translate between real-world situations and mathematical models using graphs, matrices, data tables and/or spreadsheets, verbal descriptions and algebraic expressions. They will also generalize patterns and build mathematical models to deal with situations that are linear, periodic and exponential growth/decay.

Prerequisite: Successful completion of Intermediate Algebra or 8th grade Algebra I, along with teacher recommendation.

#1103 - GEOMETRY

Full Year - 1 Credit

Grades 10 - 12

This course is designed to develop the student's ability to think logically. Students will model geometric structures; analyze characteristics of shape, size and space, use geometric properties to justify reasoning in a logical argument.

Prerequisite: Successful completion of Algebra II and teacher recommendation.

#1104 - INTRODUCTION TO ANALYSIS

Full Year - 1 Credit

Grades 11 - 12

This course will begin by reinforcing the concepts learned in Algebra II. The remainder of the course will include the exploration, investigation and application of the following topics: relations, functions and graphs, trigonometry, advanced functions and graphs, discrete mathematics, and an introduction to calculus. A course that all college-bound students interested in science, math, business, or economics should take.

Prerequisite: Successful completion of Algebra II and Geometry along with a teacher recommendation. A graphing calculator is strongly encouraged.

#1106 - INTRO TO COLLEGE ALGEBRA

1/2 Credit

Grades 12

The goal of this class is to introduce the topics usually found in a college-level algebra course. It is an excellent refresher course for the student planning to attend college, who has completed Algebra II, or beyond, and does not have a math class scheduled for their senior year. The course will begin with a streamlined review of introductory algebra topics and provide an early introduction to functions and graphing, creating a foundation for discussion of intermediate topics and a wide variety of problems involving graphing and functions.

Prerequisite: Open to 12th grade students only who have completed Geometry or beyond. A teacher's recommendation is required. *Maybe taken with Probability and Statistics for a full 4th year of math as an alternative to Intro to Analysis.

#1107 – PROBABILITY AND STATISTICS

1/2 Credit

Grades 12

Probability and Statistics has become required college coursework for many majors. Nursing, Business, Physical therapy, Marketing, Psychology, Sociology are just a few that have this requirement. This class will be a great preparation for that college work, as well as offer an opportunity to meet the four years of high school math that are required by the University of Minnesota system. This course is the perfect partner with College Algebra to allow students a full math credit their senior year and have an excellent preparation for college.

Prerequisite: Open to 12th grade students only who have completed Geometry or beyond. A teacher's recommendation is required.

#1105 – A.P. CALCULUS

Full Year - 1 Credit

Grade 12

This class will offer an in-depth study of limits, derivatives and integrals and their application to real world problems. This class will also prepare the student for the Advanced Placement Calculus AB test. It is an excellent preparatory class for college calculus. Students planning a career in math or math related field should take this course.

Prerequisite: Successful completion of Introduction to Analysis along with teacher recommendation. All students are required to have a graphing calculator.

THESE COURSES ARE OFFERED THROUGH ITV

#9106 COLLEGE ALGEBRA (ITV semester course)

½ Credit

Grades 11-12 (Through MN State SE College)

The prerequisites to take this course are: Be at least 16 years old, passed the ACCUPLCR exam, juniors must be in the top 1/3 of their class and for seniors in the top 1/2 of their class, have a minimum high school GPA of 3.0 and completed Algebra in HS or Intermediate Algebra on ITV (See your counselor for details). This course covers polynomials, roots and powers, lines and solving linear inequalities, and linear, quadratic, and rational equations. This course will fulfill your college math requirements for most non science, math, or engineering majors.

#9105 A.P. CALCULUS (ITV full year course)

1 Credit

Grades 11-12

This course will include a quick review of functions (polynomial, exponential, parametric, logarithmic and trigonometric) and also Limits and Continuity. It will then continue as a course in single-variable calculus that includes techniques and applications of the definite integral, and the Fundamental Theorem of Calculus. It is equivalent to at least a semester of calculus at most colleges and universities. Algebraic, numerical, and graphical representations are emphasized throughout the course. A graphing calculator is required (TI-83 recommended). Attitude prerequisites include a willingness to work both in and out of class and a sincere intent to place out of the first semester of college calculus rather than repeat it.

MUSIC

The music curriculum is designed to help students acquire a broad, general understanding of the artistic and cultural role music plays in the lives of everyone. Students are given the opportunity to develop their talents and abilities through planned enrichment and learning experiences including performance, individual lessons and formal class instruction.

#2203 - MIXED CHOIR

Full Year - 1 Credit

Grade 9

Mixed Choir is provided for students who would like to acquire experience and command of musical and vocal disciplines. The enjoyment of learning to improve singing skills and musicianship will be stressed. Students will perform in concerts and contests throughout the year. Individual and group lessons are a part of the course credit.

#2202 - CONCERT CHOIR

Full Year - 1 Credit

Grades 10 -12 (Maximum of 60 students) 9th grade band students may join this class.

Concert Choir is an experience in vocal music as a performing art. All types of music are explored to provide a rewarding musical experience for the talented student. Attention is also given to learning the skills and techniques for good singing and proper voice development. Students will perform in concerts and contests throughout the year. Outstanding students will be chosen to participate in honor choirs, league, district and state music festivals. Individual and group lessons are a part of the course credit.

Prerequisite: Enrollment is by audition and teacher recommendation.

#2201 - CONCERT BAND

Full Year - 1 Credit

Grades 9 - 12

The Concert Band will meet five days per week. The band performs publicly several times per year, including home concerts, commencement and at district and league sponsored activities. Private lessons are part of course credit.

Prerequisite: Previous band experience or permission of instructor.

#4011 - INDEPENDENT MUSIC

1/2 Credit

Grades 11 -12

This course is designed for the serious high school musician who intends to continue performing music during his or her college career. Independent music is strongly recommended for future music major or minors, or simply for those who would like to know more about the mechanics of music. Using an independent workbook series, students will review the basic mechanics of music, work to improve their aural skills and be introduced to music theory. Though the early parts of this course are not difficult the final chapters of theory are definitely college bound material. The word "independent" means that the student will progress at his/her own pace, consulting the instructor when help is needed. However, the goal for every student enrolled in independent music is to complete all the materials by the end of the semester.

Prerequisite: Permission from one of

the music faculty.

THESE COURSES ARE OFFERED THROUGH ITV

9316 WETC Digital Music and Sound Production

½ Credit

Grades 11-12

Students compose, record, and their own electronic music. Students learn MIDI sequencing, vocal recording, digital audio editing, and mixing techniques. They will learn about the different types of sound file formats and discover how to do sound to video synchronization (soundtracks).

At the end of the course the kids post their audio projects/songs to Sound Cloud and facebook.

PHYSICAL EDUCATION / HEALTH

The Physical Education department at Cannon Falls High School intends for students going through the program to be able to demonstrate physical fitness, physical health, understand basics of activities, demonstrate sportsmanship and use a variety of strategies to succeed.

#1901 - FITNESS FOR LIFE 9

Full Year - 1 Credit

Grade 9

All ninth grade students must sign up for this course. Fitness for Life will focus on improving individual fitness levels, in addition to participating in team sports and individual sports. There is a concentration of learning various strategies and activities that will improve students' fitness levels. Students will also focus on decision-making and refusal skills that emphasize choices they make in regards to the 6 CDC adolescent risk category. The goal of this class is to give students the knowledge and tools necessary to achieve a healthy fitness level and to be able to maintain that fitness level as adults.

#1902 - PERSONAL HEALTH AND WELLNESS 10

Full Year - 1 Credit

Grade 10

All tenth grade students must sign up for this course. Students are able to choose which area of fitness in which they would like to participate. Students can choose team sports, lifetime activities, or individual fitness. Each track will emphasize ways in which students can keep themselves healthy through fitness activities they enjoy and would find useful throughout their lives. The goal of the course is to have students apply the knowledge they have gained over the course of their education toward living a healthy lifestyle and to empower them to use the skills they have learned to make informed decisions

SCIENCE

Our purpose as the Science Department is to provide students with the opportunity to understand and explore science concepts necessary for personal life, chosen careers and continued education.

REQUIRED TO GRADUATE: 3 credits

REQUIREMENTS

Grade 9: Physical Science 9 (year)

Grade 10: Biology or Advanced Placement Biology (year)

Grades 11-12: One full year of science from one of the following options:

Chemistry (year)

A.P. Physics (year)

Basic Physics and Robotics (year)

ChemCom (year)

ELECTIVES (Grades 10 – 12)

Advanced Placement Biology (year)

Chemistry (year)

ChemCom (year)

Human Anatomy and Physiology (year)

A.P. Physics (year)

Basic Physics and Robotics (year)

Earth Systems (semester)

Space Systems (semester)

Note: UM-Twin Cities, Duluth, Morris and Rochester campuses require four years of high school science for admission.

THESE COURSES OFFERED AT CFHS

#1401 - PHYSICAL SCIENCE 9

Full Year - 1 Credit

Grade 9

This course is the study of non-living things and presents the fundamentals of physics and chemistry. In the first semester the focus will be on basic physics concepts such as motion, forces, energy, machines, electricity, magnetism and waves. In the second semester the focus will be on basic chemistry concepts such as matter, atoms, the periodic table of elements, chemical reactions, solutions and acids/bases. Throughout this course, students will engage in scientific investigations and design/build projects. Students will learn concepts through hands-on laboratories, design and engineering projects, discussions, lecture, group projects, and individual assignments.

#1402 - BIOLOGY

Full Year - 1 Credit

Grade 10

Biology is the study of living things, including how living things grow and develop, obtain and use energy, and respond to the organisms and environment around them. This biology course focuses on traditional biology concepts through the study of ecosystems, biochemistry, cells, genetics, evolution, and organisms (primarily plants and animals.) Learning opportunities will allow students to explore topics in the biological sciences through hands-on laboratories, discussions, lecture, group projects, and individual assignments.

#1410 - ADVANCED PLACEMENT BIOLOGY**Full Year - 1 Credit****Grades 10 -12**

This college-level course is intended for the college-bound student who is planning to major in a medical, environmental or engineering field, who has an interest in biology, and has successfully completed Biology. Many students will also benefit from taking Chemistry before enrolling in AP Biology. This course may also be taken by a highly motivated student in 10th grade to fulfill the High School Biology requirement. AP Biology focuses on advanced study of the following topics in biology with the goal of preparing students for the Advanced Placement Biology test: ecology, biochemistry, cellular biology, heredity and molecular genetics, evolution, diversity of organisms, and plant & animal structure and function. Learning opportunities will take place through discussion, lecture, assignments and college-level laboratories. The laboratories will give students the opportunity to engage in key science practices” as well as learn proper laboratory techniques. Purchase of a laboratory manual is optional for this course.

Prerequisite: *Need approval of course instructor.*

#1406 – BASIC PHYSICS AND ROBOTICS**OFFERED IN 2019-****2020****Full Year - 1 credit*****Alternates with ChemCom every other****year.****Grades 10-12 (Maximum 24 students due to equipment available.)**

In this course, students will develop an understanding of the relationship between technology and science by engaging in the modeling, design, planning, and control of robot systems. Students will design and engineer robots to address specific problems as well as use computer programming to control these robots. Students will also learn the relevant concepts and technology needed to do this. The course will involve lectures, readings, laboratory activities, problem sets, and both group and individual projects. Coursework will be assessed through tests and laboratory assessments as well as a final project that will be entered in either a local or regional robotics competition.

Prerequisite: *Successful completion of Intermediate Algebra. Need approval of course instructor.*

#1403 - CHEMCOM**OFFERED IN 2020-21****Full Year - 1 Credit***** Alternates with Basic Physics every other****year.****Grades 11 - 12**

Chemistry is the study of matter and the changes matter can undergo. Chemistry in the Community, (ChemCom), is designed to help students realize the importance chemistry will play in their personal and professional lives and use principles of chemistry to think and speak intelligently about current issues involving science and technology. Some of the units in the curriculum include: supplying our water needs, conserving chemical resources, and petroleum: to build or to burn. The units vary slightly from year to year based on current events. Other topics that have been covered are automobile chemistry, forensics, and nuclear chemistry. ChemCom uses group discussion, teamwork, student presentations, laboratories and lectures to cover material. **Prerequisite:** *1st semester ChemCom must be completed with a passing grade to continue into 2nd semester ChemCom. You need science department approval to register.*

#1404 - CHEMISTRY**Full Year - 1 Credit****Grades 11 - 12**

Chemistry is a science concerned with the composition, structure, and properties of substances and with the transformation that they undergo. Topics include: energy and matter, atomic theory, the periodic table, chemical formulas and equations, chemical reactions, stoichiometry, states of matter, solutions, acids and bases, and rates of reaction. The student has the opportunity to learn through laboratories, lectures, class discussion, individual and group projects, and homework. It is highly recommended that students planning on attending any type of 4 year program or tech science program take Chemistry or if they have achieved high grades in their previous science classes. **Completion of Algebra II is recommended.**

#1408 - EARTH SYSTEMS**1/2 Credit****Grades 11 - 12**

This course will explore areas of earth science including Minnesota geology, the geologic time scale, formation of the earth's continents and crust, volcanoes and earthquakes, sources of energy and energy cycling in the earth system, global and regional weather patterns and prediction, and rocks and the rock cycle. The students will experience hands on activities and in-depth projects, supplemented by lecture and discussions.

#1405 - HUMAN ANATOMY AND PHYSIOLOGY**Full Year - 1 Credit****Grades 11 - 12**

In this course the student will become acquainted with the anatomy and physiology (structure and function) of the human body. The class will make a detailed study of the organ systems found in humans. Lab work will include various dissections, along with an intense dissection of a mammalian species as a final, year end project. Any student interested in a health related career or advancing their abilities in making informed decisions regarding future health care are encouraged to take this advanced course.

#1407 - AP PHYSICS**Full Year - 1 Credit****Grades 11 - 12**

Physics is a science that deals with matter and energy and their interactions. This college prep course will study the basic concepts of physics and will prepare the student for college physics. Major areas of study are mechanics, phases of matter, energy, waves, electricity and magnetism. A few of the many specific topics include Newton's Laws, special relativity, gravity, rotational motion, Ohm's Law, lenses, the Doppler effect, speed of sound and rainbows.

Prerequisite: Successful completion of Algebra II and concurrent registration in Analysis or Calculus is recommended. 1st semester Physics must be completed with a passing grade to continue on to 2nd semester Physics.

#1409 - SPACE SYSTEMS

1/2 Credit

Grades 11 -12

During this course students will study the constellations and the myths that accompany them as well as the earth-moon system with an emphasis on the moon phases and the history of the moon landing in 1969. Students will also explore other astronomical phenomena such as stars, galaxies, and black holes. In addition, students will investigate current scientific models for the origins of the universe and our solar system. This course utilizes many hands-on activities, experimentation, and performance based/project assessments.

SOCIAL STUDIES

Social Studies incorporate a number of interrelated disciplines. It includes Geography, Psychology, Civics and Citizenship, Civic Action and Global Politics, World History, American History, Politics, Sociology and Economics. All of these disciplines affect each other. It is a study of what happened in the past and how this affects what society does in the present and in the future. Social Studies helps to determine what will and what will not work to solve the problems of society at home and worldwide.

REQUIRED TO GRADUATE 4 credits

REQUIRED SEQUENCE

Civics 9 - Year

U.S. History 10 – Year

or Advanced Placement U.S. History - Year

World History/Physical Geography - Year

or Advanced Placement World History - Year

Human Geography of Global Issues - One semester

or Advanced Placement US Government and Politics - Year

Economics – 11th or 12th grade - One semester

ELECTIVES GRADE 11 AND 12

Psychology

One Semester

Sociology

One Semester

THESE COURSES OFFERED AT CFHS

#1301 – CIVICS 9

Full Year - 1 Credit

Grade 9

Civics is the study of citizenship and government. It is the ability to understand and function in a democratic society. Students will gain an appreciation for the duties, rights and responsibilities of America citizenship. Students will also be expected to know and comprehend how our three branch system of government works. Students will be exposed to and understand our political heritage, with particular emphasis placed on the Declaration of Independence, Bill of Rights, and the U.S. Constitution. Other class time will be devoted to learning about the two-party system, campaigns and elections, the voting process, and state government.

#1302 - U.S. HISTORY

Full Year -1 Credit

Grade 10

This course provides a chronological survey of the history of the United States. Students examine topics beginning with the period of exploration and colonization, continue through independence and revolution, constitutional debate between the Federalist and Republicans, Jeffersonian and Jacksonian democracy, sectionalism and Civil War, Reconstruction and industrialization, immigration and urbanization, imperialism and the progressive era, World War I and the Great Depression, World War II, and the Cold War. The course concludes with a study of the emergence of modern America.

#1308 - ADVANCED PLACEMENT U.S. HISTORY

Full Year - 1 Credit

Grade 10

This year long course will cover nine periods of American history beginning with period one (1491) and ending with period nine (to present date). This Advanced Placement course has a demanding level of rigor that utilizes primary sources document analysis and student based inquiry. Students must be capable of careful, technical reading, exact and informative writing, perceptive evaluation of historical documents, critical analysis of divergent thinking and oral defense of controversial issues. This class is designed to prepare students to take the Advanced Placement American History test, which, when successfully completed, could earn them college credits. Students enrolling in the APUSH can expect to receive course work which will need to be completed over the summer. Failure to complete that required summer work is an automatic removal from the class.

Prerequisite: Instructor Approval

#1303 - WORLD HISTORY

Full Year - 1 Credit

Grade 11

This course takes a topical approach to the study of events that have shaped the world in which we live. Students will learn the techniques of historical study - looking for causes and effects of various events. The first semester, "Themes in World History," will take a topical approach to the study of world history. Students will investigate how cultural differences, religions, geography, economics and politics have influenced events in history. The second semester is "20th Century World History." Students will examine the events of the last century from the perspective of the cultures involved in said events. Topics for study include: WWI and it's outcomes; increasing nationalism between the wars; rise of fascism and WWII; genocide; the Cold War and the thaw, and globalization and its' impacts

#1309 - ADVANCED PLACEMENT WORLD HISTORY

Full Year - 1 Credit

Grade 11

This is a "hybrid course." Most weeks, the class will meet on Monday, Wednesday and Friday. Tuesday and Thursday are days for you to read, or work on activities for the class. The teacher will be in the class room during this time to answer questions, etc.

The Advanced Placement World History course places an emphasis on six overarching themes; (1) patterns and impacts of interaction among major societies; (2) relationship of change and continuity; (3) impact of technology and demography; (4) systems of social structure; (5) cultural and intellectual developments; (6) changes in functions and structures of states, and how they are exemplified in each of five periods of history. The periods of history are: c. 8000 BCE to 600 CE; 600 CE to 1450 CE; 1450 CE to 1750 CE; 1750 CE to 1914 CE; 1914 CE to present. The objective of the course is to prepare the students for the Advanced Placement exam by developing necessary skills through rigorous study and activities. Students must be capable of careful, technical reading, exact and informative writing, perceptive evaluation of historical documents, critical analysis of divergent thinking and oral defense of controversial issues. Students are encouraged to take the Advanced Placement World History test, which, when successfully completed, could earn them college credits.

Prerequisite: Instructor's approval.

#1304 - ECONOMICS

1/2 Credit

Grade 11 - 12

This is a "hybrid course." Most weeks, the class will meet on Monday, Wednesday and Friday. Tuesday and Thursday are days for you to read, or work on activities for the class. The teacher

will be in the class room during this time to answer questions, etc.

Economics is the study of the choices that people make to deal with the basic economic problem of scarcity - wants and needs are unlimited and resources to meet those wants and needs are limited. In the first quarter students will explore microeconomics which looks at the choices of individuals. We do this by first exploring historical and philosophical roots of economics and basic themes of supply and demand, prices and market, and personal finance topics like budgets, wealth creation and debt. The second quarter is an examination of macroeconomics which looks at the whole economic system. We use the Great Depression and the modern day recession to explore the role of the government, the role of the banking system including the Federal Reserve Bank, fiscal and monetary policy, national debt, economic indicators and global economic policy.

#1306 - PSYCHOLOGY

1/2 Credit

Grades 11 -12

Psychology is the study of behavior and the mind. The purpose of the course is for students to understand why people behave the way they do. The main units in the course will be the history of psychology, biological bases of behavior, learning and memory, cognition, developmental psychology, social psychology, and mental disorders and treatment. We will lead and participate in experiments, watch videos, and take a field trip in order to visualize these concepts. Specific activities in the course include experiments in conformity and violating a social norm, writing a paper on a mental illness, and researching careers in psychology. Other topics that will be covered include sensation and perception, states of consciousness, motivation and emotion, and personality.

#1307 - SOCIOLOGY

1/2 Credit

Grade 11 - 12

This course explores the role that the external world has in shaping who we are. The field of sociology looks at socialization or how you learn your culture. We examine relationships with parents and peers, institutions like education and religion and government and economic systems. We will explore the impact that these have in shaping us, how all human beings share culture similarities as well as the emergence of differences. Topics to be explored are sociological perspectives, an examination of American culture, world cultures, the role of institutions, social and economic class distribution, prejudice and discrimination, changing gender roles, the role of education and social problems in current events. This course can be a personal exploration of the subject as well as preparation for a sociology course in college.

#1305 – HUMAN GEOGRAPHY OF GLOBAL ISSUES

1/2 Credit

Grade 12

Using modern and current events, students will explore the way that humans interact with their physical environment and create political, economic and cultural systems that shape our choices and our interactions within that environment and the world at large. Students will develop an understanding of the impact that these human actions have on local, regional and global issues. Students will examine the cultural geography of our community, state, region and world and will use a variety of demographic and geographic tools in their exploration of these issues. The goal is to encourage students to develop a world view and the understanding that local actions have global connections and personal choices can have global consequences.

#1310 - ADVANCED PLACEMENT U.S. GOVERNMENT & POLITICS

Full Year - 1 Credit

Grade 12

This year long course will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret US politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute US politics. As an advanced placement course, this course will model an entry level college government class in both rigor and course work. Students must be successfully capable of careful, technical reading, exact and informative writing, perceptive evaluation of historical and political documents, and critical analysis of divergent thinking and oral defense of controversial issues. Students will be encouraged (but not required) to take the Advanced Placement US Government and Politics exam in the spring, which, when successfully completed, could earn them college credit. In addition, students enrolling in this class will be required to participate in the Minnesota State Showcase: "We the People...The Citizen and the Constitution" competition.

Prerequisite: Instructor approval, prior success in either Advanced Placement US History and/or Advanced Placement World History.

THESE COURSES ARE OFFERED THROUGH ITV

#9308 AP US HISTORY (ITV full year course)
1 Credit
Grades 10-12

This course is designed to prepare students for the AP U. S. History exam to receive college credit for an introductory U. S. History class. Analytical thinking skills, as well as factual knowledge of key events in U. S. History will be stressed in preparation for the AP exam. The course will also prepare students for placement in intermediate to advanced U. S. History courses in college. Topics in the course will include: Pre-Columbian societies, Colonial beginnings, the American Revolution, the Early Republic years, Antebellum America, Manifest Destiny, The Civil War and Reconstruction, Development of the West, Industrial America, World War I, The Depression and New Deal, World War II, The Cold War, and Post-Cold War America. Students should be prepared for an exciting and intricate look at what has made us who we are today.

9311 A.P. PSYCHOLOGY (ITV full year course) **Hybrid**
1 credit
Grades 11-12

AP Psychology is a course designed to rigorously build upon the foundations of Introductory Psychology. Students who register for this course are expected to have a strong interest in Psychology and be prepared to handle a college-level workload. The course revolves around lecture, in-depth experiments, and research reports. Major units of study include: Learning, Cognition, Intelligence, Human Development, Personality, Abnormal Psychology, and Therapy.

#9903 SOCIAL PSYCHOLOGY (ITV semester course)
½ Credit
Grades 11-12

Have you ever wondered why people either help or ignore others in need? Or how people come to form stereotypes about racial and ethnic groups, and how they can overcome them? Social psychology might be the course for you. Social psychology is a discipline that focuses on how people think, feel, and behave in social situations. This social science draws on two disciplines: psychology, which focuses on the individual; and sociology which centers on groups. Social psychologists attempt to answer questions about how people perceive, interact, and try to influence each other. In addition, they study how individuals exert influence on groups and how group situations impact the behavior of individuals.

