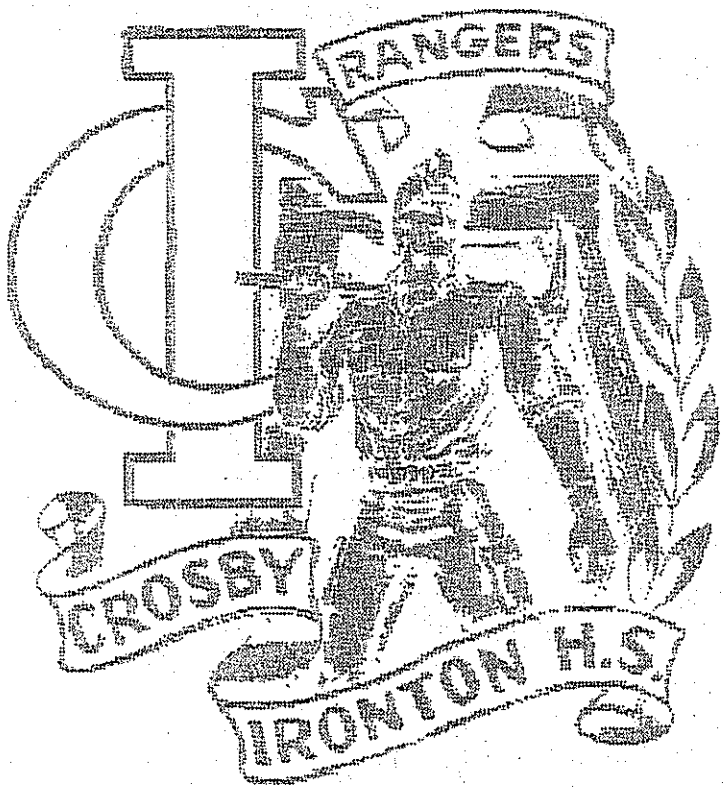
CLASS REGISTRATION GUIDE



CROSBY-IRONTON HIGH SCHOOL
2012-2013

We are pleased to present the 2012-2013 Crosby-Ironton High School Registration Guide. Each department has worked very hard to offer a wide variety of courses that will meet your educational needs as you prepare for your future.

The listed courses in this registration guide are "offered" to students. The courses that are actually "taught" will be determined by the number of students registering for each class and teacher availability. It is important therefore, to register for every course you wish to take next year and not assume you can sign up for it later.

Below are the graduation requirements for Crosby-Ironton High School. The 22 credit graduation requirement should be considered as a minimum. Students are encouraged to take additional classes to help insure the richest possible educational experience. In all cases, students must enroll in at least 5 classes each semester. Course selection should be viewed as part of a four year plan, with each year serving as preparation for the next. By choosing courses based on your unique talents, interests and goals, you will leave high school well prepared for your future

GRADES 9-12 GRADUATION REQUIREMENTS

4 Credits	English	½ Credit	Health
3 ½ Credits	Social	½ Credit	Phy. Ed.
3 Credits	Math	1 Credit	Arts
3 Credits	Science	6 ½ Credits	Electives

COLLEGE PREPARATION

Most four year colleges require or recommend a core of high school coursework for college freshman admissions. In Minnesota this core of study is required. Students planning to complete a four-year college program should prepare themselves by taking the following courses (the minimum number of years listed) in grades 9-12:

4 years of English
3 years of Math – including algebra, geometry, and advanced algebra
3 years of Science – including 1 year of a biological science and 1 year of a physical science
3 years of Social Studies – including 1 year of U.S. history and 1 year of geography
2 years of a single world language
1 year of electives – chosen from the following: world culture; visual and performing arts

These minimum preparation requirements are considered along with high school rank and college entrance test scores in making admissions decisions. Colleges may admit some students who have not met all of these preparation requirements. In these cases, each college has different policies and admission is made on a case-by-case basis. Students may be required to make up the missing preparation course work in college.

COLLEGE IN THE SCHOOLS AT CROSBY-IRONTON HIGH SCHOOL

Juniors and seniors at Crosby-Ironton High School may earn college credits on the CIHS campus through College in the Schools. CIS is an arrangement between Crosby-Ironton High School and Central Lakes College allowing students to enroll in college and high school at the same time. The college classes are taught on the high school campus by high school instructors. Each high school instructor works directly with a college collaborator who teaches the same course on the college campus. Students enrolling in concurrent courses must have a cumulative GPA of 3.0 for 11th grade and a 2.5 GPA for 12th grade. Listed below are the course names, numbers and college semester credits of CIS courses offered at CIHS. In addition to the GPA requirements, some courses have a prerequisite Accuplacer test score for enrolling in the course. All prerequisites are listed in the course descriptions.

ANTH	1457	Cultural Anthropology	3 Credits
BIOL	1404	Human Biology	3 Credits
BUSN	1102	Accounting for Non-Accountants	3 Credits
BUSN	1501	Intro to Business	3 Credits
CHEM	1414	Fundamentals of Chemistry	4 Credits
ENGL	1410	Composition I	4 Credits
ENGL	1411	Composition II	4 Credits
ENGL	1463	Intro to Literature	3 Credits
ENGR	1500	Intro to Engineering	2 Credits
HIST	1473	U.S. History 1877 to Present	3 Credits
HLTH	2570	Topics in Health-Health Care Occupations	3 Credits
MATH	1506	Beginning College Algebra	4 Credits
MATH	1470	College Algebra	3 Credits
MATH	1472	Precalculus	5 Credits
MATH	1477	Calculus I	5 Credits
PHYS	1401	College Physics I	4 Credits
SPCH	1431	Fundamentals of Public Speaking	3 Credit

BRIDGES CAREER ACADEMIES

The Bridges Academy and Workplace Connection is a tremendous program offered to students at Crosby-Ironton High School. The goal of this program is to provide high school students a chance for work force exploration and preparation for regional high pay, high demand careers. The Academies are made possible through a partnership of area businesses, the Brainerd Lakes Chamber, Crosby-Ironton High School and Central Lakes College (CLC). Through hands-on course work, speakers in the classroom, business tours, job shadows and the annual career exploration day, students will develop foundational skills that will help them gain employment. The Academies may include regular high school courses, some of which have Advanced Standing-Tech Prep credit and College in the School courses. Crosby-Ironton High School offers the following Career Academies: Automotive Technology Academy, Business Academy, Electronics and Electricity Technology Academy, Graphic Arts Academy and Health Sciences Academy.

When a student completes a Career Academy he/she may also receive the following benefits besides the many experiences gained from completing one or more of the Career Academies:

1. Green Honor Cord to be worn at Commencement Exercises designating completion of an academy.
2. Acknowledgement at the C-I Senior Awards Program.
3. Invitation to a Brainerd Lakes Area Chamber Bridges Academy recognition program.
4. Right to apply for scholarship(s) only available to students who have completed one or more academies.
5. A guaranteed interview with some area businesses when completing an academy in a related field.

Automotive Technology Academy

Crosby-Ironton High School

Crosby, MN

The Automotive Technology Academy allows students to acquire the basic skills necessary to service and maintain today's automobiles. The Academy offers curriculum that aligns with the Automotive Service Excellence standards. The Academy introduces you to an automotive career field and has options for transferring credits to higher education.

Academy Courses:

Auto Mechanics (143 &144) Grades 11-12 1.5 HS Credit
Auto Mechanics is one hour first semester and two hours second semester. This course covers various areas in the field of mechanics. First semester areas of concentration include buying a car and car care, tune-up, carburetion, and emissions control work. Second semester includes basic electricity and electrical systems, valve work, and some major engine work. The last quarter will deal with a basic unit on auto body with weather permitting. Students will work on their vehicles and various models. Because it is a two-hour lab class, good attendance is extremely important. This course is beneficial to pre-engineering and pre-vocational students.

Tech Trade Knowledge (140) Grades 10-12 .5 HS Credit, 2 Tech Prep Credits
This course develops the student's ability to follow instructions, interpret specifications, and use various hand and power tools required to make thread repairs, soldering techniques, and double flare steel tubing. Various types of math problems are also addressed.

Welding I (141) Grades 10-12 .5 HS Credit, 2 Tech Prep Credits
This course in general welding will introduce the student to soldering, brazing, oxyacetylene welding and cutting, plasma cutting, arc welding, GMAW (Mig) welding, and TIG aluminum and steel welding. The student will also develop an understanding and appreciation of welding safety and good shop skills.

Small Engines I (132) Grades 10-12 .5 HS Credit
Students will work on two and four cycle principles on Briggs & Stratton, Lawn Boys, and Tecumseth engines.

Job Skills:

In addition to having technical skills, employers expect their workers to have other skills such as:

- Listening skills
- Ability to work with customers and coordinating with other employees
- Critical thinking, problem solving and decision making skills
- Managing tools and equipment

Career Options:

Automotive Mechanic, Service Technician, Small Engines Mechanic, Diesel Mechanic, Service Manager, Quick Lube Technician, Automotive Engineering Technology, Motorcycle Mechanic

Mechanic Job Outlook:

Automotive Mechanic - 18% growth for Central Minnesota

***Note: This academy requires a student to complete all four classes listed.

Business Academy
Crosby-Ironton High School, Crosby, Minnesota 56441

This academy provides tools for students entering the field of business as a career or as part of another career that benefits from business knowledge. This academy offers curriculums that align with the Business Management, Accounting, and computer courses at Central Lakes College.

Academy Courses: (*For full descriptions of the classes below, please refer to the business education section of the C-I registration guide.)

Computer Applications (185) (one semester) Grades 9-12 .5 High School Credit
Focusing on both keyboarding and formatting skills, students will improve speed and accuracy at the keyboard (and 10-key pad) and learn Word, Excel, PowerPoint, and Access in the Microsoft Office Suite.

Accounting for Non-Accountants 1102 (169) (two semesters) Grades 11-12 1 HS Credit, 3 College Credits
This class teaches all students, not just accounting majors, an excellent understanding of how a business works and the "language" of business. Students learn the basic accounting cycle (manual and computerized) for a service business organized as a proprietorship and a merchandising business organized as a corporation.

Introduction to Business 1501 (175) (one semester) Grades 11-12 .75 HS Credit, 3 College Credits
Emphasis is placed on the dynamics of business along with current information in the areas of global business, forms of business organization, entrepreneurship, marketing, management, work force motivation, and organizational structures. As a final project, students work in teams to research and prepare a business plan for a new business in this geographic area.

Business Law (178) (two semesters) Grades 10-12 1 High School Credit
"The law touches our lives from before we are born until after we die." This class will give students a greater understanding of our city, state, national, and international laws. Students will learn about a broad expanse of law subjects that affect them now and will affect them in the future.

Desktop Publishing (183) (one semester) Grades 10-12 .5 High School Credit
Covering the dynamics of desktop publishing using QuarkXPress Passport and Adobe Photoshop, students will learn page layout, graphic design theory, and pre-publishing planning. Students will create a variety of projects including programs, brochures, tickets, posters, autobiographies, and other applications incorporating graphic design/publishing theories.

Job Skills:
In addition to having technical skills; employers expect their workers to have other skills such as listening skills; the ability to work with customers and coordinate with other employees; critical thinking, problem-solving, and decision-making skills; managing tools, software, and equipment

Career Options:
The range of careers in the business field is large; from accountants, business executives and managers, to systems analysts. Other careers are greatly enhanced by employees' knowledge of the business world.

Business Jobs Outlook:
Depending on the actual career, business employment in Minnesota ranges from moderate to very high.

Postsecondary Programs:
Business programs range from two-year programs (Central Lakes College, St. Cloud Technical School) to business schools (Rasmussen, Minnesota School of Business) to most four-year programs (University of Minnesota, Moorhead State University, etc.)

***Note: To earn the business academy recognition, students must enroll in and complete a minimum of *five semesters* of class from the choices above. (For example, Accounting is two semesters, Business law is two semesters, and Intro to business is one semester)

Electronics and Electricity Technology Academy

Crosby-Ironton High School

Crosby, MN

The Electronics and Electricity Academy allows students to acquire the basic skills necessary to understand and apply basic electronic and electricity skills. The Academy offers a curriculum that aligns with the practical and cognitive knowledge and skills most post-secondary programs require.

Academy Courses:

Electronics & Communication I (139) Grades 9-12 .5 HS Credit
This course will introduce the student to the basics of electronics and electricity, the areas covered include: atomic theory, basic circuit design, series and parallel concepts, ohm's law, test equipment, residential and commercial electricity, transistor/semi-conductor electronics and basic digital and logic electronics.

Electronics & Communication II (138) Grades 9-12 .5 HS Credit, 2 Tech Prep Credits
This course will introduce the student to the areas and concepts of robotics, intermediate residential and commercial electricity, digital and logic circuit theory and design.

Drafting & Design I (136) Grades 9-12 .5 HS Credit
This course will introduce the student to basic design and drawing concepts and the fundamentals of two-dimensional AutoCAD computer design, Rhinoceros three-dimensional modeling and the fundamentals of architectural design.

Job skills:

In addition to having technical skills, employers expect their workers to have other skills such as:

- Listening skills
- Ability to work with customers and coordinating with other employees
- Critical thinking, problem solving and decision making skills
- Managing tools and equipment
- Employing necessary academics skills, such as math, grammar and technology

Career Options:

Electronic and Electricity Technician, Associate Engineer, Commercial/Residential Electrician, Industrial Electrician and Medical Equipment Technician

Career Outlook:

As the areas of science and technology become more advanced and diverse the demand and need for highly trained electricians will continue to grow.

Post-secondary Programs:

Wadena Community Technical College, Anoka Hennepin Community College, North and South Hennepin Technical Colleges and Bemidji Community and Technical College

***Note: This academy requires a student to complete all three classes listed.

Graphic Arts Academy
Crosby-Ironton High School
Crosby, MN

The Graphic Arts Academy allows students to acquire the basic tools necessary to design and create multimedia projects. The Academy offers curriculum that aligns with the Special Projects courses at Central Lakes College.

Academy Courses:

Digital Photography (64) Grades 10-12 .5 HS Credit, 1 Tech Prep Credit In this course students will learn the basics of digital photo. Students will use Adobe Photoshop Elements to learn to edit their photos before moving on to advanced topics, such as working with layers, adding special effects and combining images and type to create powerful graphics.

Digital Photography II (65) Grades 10-12 .5 HS Credit, 1 Tech Prep Credit
In this course students will learn more advanced techniques in Adobe Photoshop Elements. The students will use Adobe Photoshop Elements, iPhoto and online photo software to design projects. Some emphasis will be placed on designing projects for use in the community.

Multimedia Projects (184) Grades 10-12 .5 HS Credit, 1 Tech Prep Credit
This course is designed to teach students how they can use digital photographs in print documents and presentations to make an impact. There is an emphasis on presentation software. Some of the software used in this class will be Microsoft Office Word, Microsoft Office PowerPoint, Windows Movie Maker, Print Shop, Adobe Photoshop Elements, iPhoto, and iMovie. Some basic web design will be taught using iWeb.

Desktop Publishing (183) Grades 10-12 .5 HS Credit
Covering the dynamics of desktop publishing using QuarkXPress Passport and Adobe Photoshop, students will learn page layout, graphic design theory, and pre-publishing planning. Students will create a variety of projects including programs, brochures, tickets, posters, autobiographies, and other applications incorporating graphic design/publishing theories.

Job Skills: In addition to having technical skills, employers expect their workers to have skills such as:

- Listening Skills
- Ability to work with customers
- Critical Thinking, Problem Solving and Decision Making Skills
- Managing Equipment and Software

Career Options: Photographer, Graphic Designer, Photojournalism

Photographer Job Outlook: Employment outlook in Minnesota is moderate but high is urban areas and is high in the United States according to Minnesota Career Information System.

Postsecondary Programs: Central Lakes College, Hennepin Technical College, Art Institutes Intl., Minnesota

***Note: To receive recognition of academy completion students must enroll in and complete at least three of the four classes listed.

Health Sciences Academy
Crosby-Ironton High School, Crosby, Minnesota

The Academy allows a student to acquire the basic tools necessary to decide if a career in one of the many Health Science fields is for him/her. The Academy offers curriculum that aligns with the Health Science courses at Central Lakes College.

Academy Courses:

Health Care Occupations (95* or 96) Grades 11-12 3 College Credits and/or .75 HS Credit
Students enrolled in this course will participate in a unique partnership between Crosby-Ironton High School and Cuyuna Regional Medical Center. Topics covered in the course include the history and present state of healthcare, successful and essential behaviors of healthcare workers, as well as legal and ethical issues in healthcare. A major component of this course is participation in healthcare career rotations at Cuyuna Regional Medical Center. Due to the clinical nature of rotations, two unexcused "no shows" to rotations by a student will result in the student being dropped from the course.

Human Biology (22* or 28) Grades 11-12 3 College Credits and/or .75 HS Credit
Human Biology deals with skills and knowledge essential for all health and medical fields. It covers the anatomy and physiology of the human body. Fetal pigs and/or rats will be used as models for dissection. Many guest speakers will share their career experiences in various health fields. Students will be required to complete several lab reports each quarter. A research project will also be required each semester.

Chemistry (29* or 24) Grades 11-12 3 College Credits and/or .75 HS Credit
Experimentation and observation are central to the development of chemistry as a science. At the end of this course, students will not know all about chemistry, but they should know how scientific information is obtained and how models and theories are developed. Labs, lectures, and problem solving are all a part of this science course.

Job Skills: In addition to the technical skills unique to each career, health care workers must be able to:

- Work precisely with data, equipment, and medications
- Use and maintain private medical data in strict compliance with laws and organizational policy
- Be an active member of the health care team
- Use critical thinking and problem solving skills
- Effectively communicate with staff, patients and others

Career Options: Careers in the health sciences field vary widely from entry level positions such as, nursing assistant and dietary aide to doctoral level practitioner and researchers.

Job Outlook: The overall job outlook for the health science areas is very good.

Programs: Programs of study in health sciences range from a few weeks to more than eight years. Many of the careers require one to two years of technical training. Most colleges offer one or more programs in the in the health science area. These programs most often have specific admissions requirements making it important for interested students to do college and program research early.

*College in the Schools course number—these courses receive both high school and college credit.

****To receive recognition of academy completion students must enroll in and complete all three of classes listed.

ADVANCED STANDING-TECH PREP
COLLEGE CREDIT FOR HIGH SCHOOL COURSES

Students from Crosby-Ironton High School can earn college credit at Central Lakes College in career and technical programs. Central Lakes College faculty members have worked with our high school teachers to identify competencies that are common at both the high school and college levels. This allows you to earn college credit for achieving these skills while in high school.

For credit to be awarded, the course must be taken in 11th or 12th grade and the student must earn a grade of B or higher.

CENTRAL LAKES COLLEGE
Advanced Standing-Tech Prep Agreement
2012-2013

Crosby-Ironton High School	Central Lakes College			
Course Title	**Course #**	**Course Title**	**College Credit**	**CLC Program**
Child Development	CDEV 1307	Child Health	1	Child Development
	CDEV 1305	Child Abuse & Neglect	1	Child Development
	CDEV 1306	Child Safety	1	Child Development
	CDEV 1308	Child Nutrition	1	Child Development
Electronics & Communications II	MASE 1106	Intro to Electronics	2	Marine & Small Engines Welding & Fabrication
Digital Photography I	PHIM 1199	Special Topics	1	Photographic Imaging Tech
Digital Photography II	PHIM 1199	Special Topics	1	Photographic Imaging Tech
Analog & Digital Photography	PHIM 1164	Survey of Imaging	1	Photographic Imaging Tech
Multi-Media Projects	PHIM 1164	Survey of Imaging	1	Photographic Imaging Tech
Tech Trade Knowledge	WELD 1140	Trade Knowledge	2	Marine & Small Engines Welding & Fabrication
Welding I	WELD 1100	Intro to Welding	2	Marine & Small Engines Welding & Fabrication
Welding II	WELD 1140	Trade Knowledge	2	Marine & Small Engines Welding & Fabrication
Small Engines II	Elective		1	Marine & Small Engines

INFINITY ONLINE

Infinity Online, a state certified online provider, is a joint effort of 48 school districts. Students are able to take online classes without leaving their home districts, teachers, and friends who make up the school experience.

For more information go to www.mninfinity.org or see your guidance counselor.

HIGH SCHOOL COURSE PLANNING WORKSHEET

Grade 9

English 9

Civics / Elective

PE/Health

Physical Science

Math

Grade 10

English 10

American History

Biology

Math

Grade 11

English 11 or CIS English

World Historical Geography

Math

Chemistry or Physics required for class of 2015 and beyond

Grade 12

English 12 or CIS English

Senior Social or CIS Social

Math required for students who have not passed the MCA/GRAD Math Test.

Math (3 cr)

Pathway 1 (Grade 8-Algebra 8)

Integrated Algebra-Geometry I
Integrated Algebra-Geometry II
Advanced Algebra

(Math continued)

Pathway 2 (Grade 8-Algebra)

Geometry
Advanced Algebra
or two or more of the following:
Beginning College Algebra/Analysis I
College Algebra/Analysis II
PreCalculus
Calculus I

Science (3cr)

Physical Science
Biology
One or more of the following:
Chemistry/Fundamentals of Chemistry
Human Biology
Outdoor Science
Physics/Fundamentals of Physics

Art (1 cr)

A Cappella Choir
Advanced Art
Analog & Digital Photography
Chamber Singers
Clothing & Design
Concert Band
Concert Choir
Crafts & Culture
Desktop Publishing
Digital Photography
Digital Photography II
Drafting & Design I
Drafting & Design II
Drawing I
Fine Art
Interior Design
Multimedia Projects
Painting
Symphonic Band
3-D Art

GRADE 9 COURSE OFFERINGS
2012-2013

Required:	
English 9	**1 Credit**
Civics	**.5 Credit**
Physical Education	**.5 Credit**
Health	**.5 Credit**
Math	**1 Credit**
Physical Science	**1 Credit**

When offered: Y-year long course, 1-first semester only, 2-second semester only, E-offered either semester.
*** indicates Art requirement**
 # indicates Advanced Standing-Tech Prep. Must be taken in 11th or 12th grade to earn Advanced Standing-Tech Prep credit.

Electives	**Credit**	**When**
ART		
Crafts & Culture *	.5	E
Drawing I *	.5	E
Fine Art *	.5	E
Painting *	.5	E
3D Art *	.5	E
BUSINESS		
Computer Applications	.5	E
FAMILY & CONSUMER SCIENCE		
Clothing & Design *	.5	E
Foods on Your Own	.5	E
Foreign Foods	.5	E
INDUSTRIAL TECHNOLOGY		
Drafting & Design I *	.5	1
Drafting & Design II *	.5	2
Electronics & Communications I	.5	1
Electronics & Communications II #	.5	2
Woodworking	.5	E

Electives	**Credit**	**When**
MUSIC		
Band *	.5 or 1.0	Y
Choir *	.5 or 1.0	Y
Band/Choir*	1.0	Y
MATH		
Integrated Algebra-Geometry I	1.0	Y
Geometry	1.0	Y

GRADE 10 COURSE OFFERINGS
2012-2013

Required: **English 10**
American History
Biology
Math

When offered: Y-year long course, 1-first semester only, 2-second semester only, E-offered either semester.
*** indicates Art requirement**
 # indicates Advanced Standing-Tech Prep. Must be taken in 11th or 12th grade to earn Advanced Standing-Tech Prep credit.

Electives	Credit	When
ART		
Advanced Art *	.5	E
Crafts & Culture *	.5	E
Drawing I *	.5	E
Fine Art *	.5	E
Painting *	.5	E
3D Art *	.5	E
BUSINESS		
Business Law	1.0	Y
Computer Applications	.5	E
Desktop Publishing *	.5	E
Digital Photography * #	.5	E
Digital Photography II * #	.5	E
Multimedia Projects * #	.5	E
FAMILY & CONSUMER SCIENCE		
Child Development #	.5	E
Clothing & Design *	.5	E
Foods on Your Own	.5	E
Foreign Foods	.5	E
Interior Design *	.5	E
INDUSTRIAL TECHNOLOGY		
Analog & Digital Photography I * #	.5	E
Basic Automotive	.5	E
Drafting & Design I *	.5	1
Drafting & Design II *	.5	2
Electronics & Communication I	.5	1
Electronics & Communication II #	.5	2
Furniture & Cabinetry I	.5	1
Furniture & Cabinetry II	.5	2
Small Engines I	.5	1
Small Engines II #	.5	2
Tech Trade Knowledge #	.5	E
Welding I #	.5	1
Welding II #	.5	2
Woodworking	.5	E

Electives	Credit	When
MATH		
Integrated Algebra-Geometry I	1.0	Y
Integrated Algebra-Geometry II	1.0	Y
Geometry	1.0	Y
Advanced Algebra	1.0	Y
MUSIC		
Band *	.5 or 1.0	Y
Choir *	.5 or 1.0	Y
Band/Choir *	1.0	Y
SCIENCE		
Biology	1.0	Y
Outdoor Science	1.0	Y
Physical Science	1.0	Y
SPANISH		
Spanish I	1.0	Y

COURSE OFFERINGS
2012-2013

Grade 11 — **Required: World Historical Geography, English 11 or CIS English, Math**

Grade 12 — **Required: Senior Social or CIS Social, English 12 or CIS English**

When offered: Y-year long course, 1-first semester only, 2-second semester only, E-offered either semester
*** indicates Art requirement**
 # indicates Advanced Standing-Tech Prep. Must be taken in 11th or 12th grade to earn Advanced Standing-Tech Prep credit.

Electives	Credit	When
ART		
Advanced Art *	.5	E
Crafts & Culture *	.5	E
Drawing I *	.5	E
Fine Art *	.5	E
Painting*	.5	E
3D Art *	.5	E
BUSINESS		
Accounting for Non-Accountants 1102	1.0	Y
Business Law	1.0	Y
Desktop Publishing *	.5	E
Digital Photography * #	.5	E
Digital Photography II * #	.5	E
Intro to Business 1501	.75	E
Computer Applications	.5	E
Multimedia Projects * #	.5	E
FAMILY & CONSUMER SCIENCE		
Child Development #	.5	E
Clothing & Design *	.5	E
Foods on Your Own	.5	E
Foreign Foods	.5	E
Interior Design *	.5	E
INDUSTRIAL TECHNOLOGY		
Analog & Digital Photography * #	.5	E
Auto Mechanics	1.5	Y
Basic Automotive	.5	E
Drafting & Design I *	.5	1
Drafting & Design II *	.5	2
Electronics & Communication I	.5	1
Electronics & Communication II #	.5	2
Furniture & Cabinetry I	.5	1
Furniture & Cabinetry II	.5	2
Intro to Engineering 1500	.5	2
Small Engines I	.5	1
Small Engines II #	.5	2
Tech Trade Knowledge #	.5	2
Welding I #	.5	1
Welding II #	.5	2
Woodworking	.5	E

Electives	Credit	When
MATH		
Geometry	1.0	Y
Advanced Algebra	1.0	Y
Analysis I	1.0	1
Beginning College Algebra 1506	1.0	1
Analysis II	.75	2
College Algebra 1470	.75	2
Precalculus 1472	1.25	1
Calculus I 1477	1.25	2
MUSIC		
Band *	.5 or 1.0	Y
Choir *	.5 or 1.0	Y
Band/Choir *	1.0	Y
Cantare Concert Chorale 1421/1422	.5	2
SCIENCE		
Biology	1.0	Y
Outdoor Science	1.0	Y
Chemistry	1.0	Y
Fundamentals of Chemistry 1414	1.0	Y
Human Biology	1.0	Y
Human Biology 1404	1.0	Y
Physics	1.0	Y
College Physics I 1401	1.0	Y
SPANISH		
Spanish I	1.0	Y
Spanish II	1.0	Y
Spanish III	1.0	Y
SPECIAL AREAS		
Topics in Health - Health Care Occupations 2570	.75	E

ART

***Indicates Art requirement credit**

CRAFTS AND CULTURE * Grades 9-12 .5 Credit

This course is an exploration of the process of making traditional art. The projects in the class are influenced by cultures around the world including American culture. Some examples of assignments in Crafts and Culture are mask making, yarn painting, batiking and glass etching.

PAINTING* Grades 9-12 .5 Credit

This course focuses on teaching students the fundamentals of painting along with introducing them to the progression of art/painting movements throughout history. This course gives students the opportunity to find the art style that fits them best.

3D ART * Grades 9-12 .5 Credit

This course is a focus in creating three dimensional works. The majority of the course will focus on hand building with ceramics (clay). Students will also have the opportunity to create using the potter's wheel, wire and plaster.

DRAWING I * Grades 9-12 .5 Credit

This course is an introduction to drawing. Students will use a variety of drawing techniques to achieve a three dimensional appearance on a two dimensional surface. The course will also explore a variety of drawing mediums including colored pencil, charcoal, soft pastels and oil pastels.

FINE ART * Grades 9-12 .5 Credit

This course gives students the opportunity to dabble in the fine arts. Students explore a wide range of art mediums and projects. The projects include drawing, scratch board, painting and printmaking. If you're not sure where to start with art, this is a great course.

ADVANCED ART * Grades 10-12 .5 Credit

This class is offered for students who have taken two or more art classes. The projects will take a more in-depth approach to two dimensional and three dimensional art using a variety of different mediums. This class gives students more responsibility and more freedom to explore their inner artist.

BUSINESS EDUCATION

 # Indicates Advanced Standing (Tech Prep)

*** Indicates Art requirement credit**

COMPUTER APPLICATIONS Grades 9-12 .5 Credit

This class is an excellent way for students to become more proficient by increasing typing speed and accuracy and learning Microsoft Word, Excel, PowerPoint, and Access. Students will utilize the Cortez Peters Championship Typing program to improve individual skills on both the alphabetic and 10-key keyboards. Students will also focus on formatting skills using Word 2007 for both MLA and APA academic reports and other useful documents.

During the second quarter, students will participate in a Microsoft Office integrated simulation called "Sports Connection" and will apply the formatting skills already learned by processing all types of information in the projects designed for the simulation using Word, Excel, PowerPoint and Access.

ACCOUNTING FOR NON-ACCOUNTANTS 1102 Grades 11-12 1 Credit

This College in the Schools course is not just for those planning to be accountants! Any student that will be associated with the world of business can greatly benefit from this course. This class helps students gain an excellent understanding of how a business works and the "language" of business. Students will learn the basic accounting cycle (manual and computerized) in the form of journalizing, posting, trial balance, payroll records, and end-of-fiscal-period work for both a proprietorship and a corporation. Service and merchandising businesses will be covered.

Second semester will have students work more extensively with payroll records, taxes, and end-of-fiscal-period work. As time permits, an electronic accounting simulation will be covered.

***Embedded in the first semester of this class is a 15-hour curriculum called *Money Management Skills* that will greatly benefit every student now and in the future. Topics covered in this class include banking, credit cards, checking and savings accounts, budgeting, applying for financial aid, loan applications, purchasing a car, rent and taxes.

**Note: To earn College in the Schools credit, students must complete the full-year course.

INTRODUCTION TO BUSINESS 1501 Grades 11-12 .75 Credit

How do you start a business? How do businesses succeed? How does the world economy affect small businesses in Minnesota? This class provides students with a better understanding of the dynamics of business. Emphasis is placed on current information in the areas of business in a borderless world, forms of business organization, entrepreneurship, marketing, management, work force motivation, and organizational structures. Students also do career exploration and practice strong work ethic habits and interpersonal skills in the workplace. As a final project, students work in teams to research and prepare a business plan for a new business in this geographic area.

BUSINESS LAW Grades 10-12 1 Credit

The law touches our lives from before we are born until after we die. This class will give students a better understanding of our city, state, national, and international laws. Students will understand criminal and civil law, legal rights and duties, and contract law which is the foundation for business law. Students will also study the American court system, personal injury laws, consumer protection, marriage and divorce, property laws, real property, renting realty, employment law, employment discrimination, bailments, personal insurance, and last will and testaments. An integral part of this class is discussing current events as they pertain to the law. Students who take this class will become well-informed and prepared for life when they are still a minor and when they become a legal adult.

DESKTOP PUBLISHING * Grades 10-12 .5 Credit

This lab class helps to train students on the dynamics of desktop publishing using programs such as QuarkXPress and Adobe Photoshop along with other art programs. Students will create programs, brochures, tickets, posters, autobiographies, comic books, bumper stickers, and other creative projects. Students will also learn basic page layout techniques, graphic design theory, and pre-printing planning.

**Note: Students who have already taken Desktop Publishing may re-enroll in the course for additional credit doing advanced work, but instructor permission must first be obtained.

MULTIMEDIA PROJECTS # * Grades 10-12 .5 Credit

*This class is not an introductory class; some prior computer experience is expected.

Taught in the Hallett Computer Lab using dual platform iMac computers, this course is designed to teach students what they are able to create with digital photographs and video. This is not a photography class where the students are taught how to actually set up and take the photos. There will be an emphasis on presentation software. Some of the software used in this class will be Microsoft Office Word, Microsoft Office PowerPoint, Windows Movie Maker, Print Shop, and Adobe Photoshop Elements. Some time will also be spent on the Macintosh's iLife Suite which includes iPhoto, iMovie, and iWeb. A fun and exciting class, a spark of creativity is helpful in taking this class, and you must have an interest in computers.

DIGITAL PHOTOGRAPHY # * Grades 10-12 .5 Credit

If you have ever looked at a photo and wondered how it was created, this course is for you. This course is for anyone who wants to learn how to edit digital photos to create images that have visual impact. Students will learn the basics of digital photography. Students will use Adobe Photoshop Elements to learn to edit their photos before moving on to advanced topics, such as working with layers, adding special effects and combining images and type to create powerful graphics. Students will also create projects in Adobe Photoshop Elements using digital photos. Some time will also be spent on Macintosh's iPhoto. An interest in taking photos and in computers is helpful.

DIGITAL PHOTOGRAPHY II # * Grades 10-12 .5 Credit
Prerequisite: Digital Photography

Students will learn more advanced techniques in Adobe Photoshop Elements and spend more time on creating using Adobe Photoshop Elements and other photo software. Some time will be spent learning to use Macintosh's iPhoto and iWeb.

ENGLISH

Course	Grade	No. of Semesters	Credit
English 9	9	2	1
English 10	10	2	1
English 11	11	2	1
English 12	12	2	1

English 9, 10, 11, 12 incorporate the reading of literature of various types, the reviewing of certain aspects of grammar, the teaching of various types of writing, and the reinforcing of various listening and speaking skills.

COLLEGE IN THE SCHOOLS ENGLISH

Students in CIS English need not take English 11 and/or 12.

COMPOSITION I 1410 Grades 11, 12 1 Semester 1 Credit
Prerequisite: Accuplacer Reading Test score of 78 or higher

Students will write a minimum of seven formal essays, which may include the following writing strategies: process, interpretation, evaluation, description, narration, exemplification, comparison contrast, definition, analogy and classification. Students may also be asked to write journals, a resume and cover letter, and to review grammar.

COMPOSITION II 1411 Grades 11, 12 1 Semester 1 Credit
Prerequisite: Composition I 1410

Students will write a minimum of five formal essays, which may include the following writing strategies: cause and effect, argument, reaction to literature, evaluation and interpretation. Students will learn research process and produce formal research papers in both APA (American Psychological Association) format and MLA (Modern Language Association) format.

INTRODUCTION TO LITERATURE 1463 Grade 12 1 Semester .75 Credits

Students will study three forms of literature: short prose, plays and poetry. They will analyze these forms for plot, point of view, characterization, setting, symbolism, theme, tone, and figurative language. This will result in an appreciation of literary works.

FUNDAMENTALS OF PUBLIC SPEAKING 1431 Grade 12 1 Semester .75 Credits

This course is designed to introduce students to the basic principles of effective public speaking, focusing on informative and persuasive techniques. Topics included are topic selection and development; message and argument construction; audience and occasion analysis, critical thinking and evaluation; outlining and structure; and delivery and presentation skills.

FAMILY AND CONSUMER SCIENCE

 # Advanced Standing-Tech Prep

*** Indicates Art requirement credit**

FOODS ON YOUR OWN Grades 9-12 .5 Credit

Learn how to prepare food for yourself once you move away from home. Emphasis will be on making nutritional and healthy food choices while getting the most from your food dollar. Topics will include grocery shopping on a budget, quick meals, and planning food for entertaining of family and friends. Labs will include such items as salads, healthy snacks, quick soups and main dishes. Through hands-on learning and teacher demonstrations, students will develop their skills in food preparation. Kitchen math skills will be reinforced in this course.

FOREIGN FOODS Grades 9-12 .5 Credit

Mexican Tostadas, French Chocolate Mousse, German Black Forest Cherry Cake, and Oriental Chicken Stir Fry are some of the international foods to sample as we travel the world through the kitchen. The study of ethnic and specialty foods will give you an opportunity to learn the customs, cooking techniques, special ingredients and equipment in a variety of cultures. This class is designed for those that enjoy trying new foods. Hands-on learning is an integral part of this class, providing opportunities for individual and group work. Students are evaluated on lab experiences, group work, assignments and tests.

CLOTHING AND DESIGN * Grades 9-12 .5 Credit

Clothing and Design is for students who like the world of fashion design and also like the hands on experience on the sewing machine. Topics will include fashion design principles, selection of patterns and fabrics, and construction of several projects during the semester. If you enjoyed the Cycle 8 class in sewing, this course will give you additional experience on the sewing machine, regardless of sewing ability. Projects may include chenille pillows, polar fleece hats and mittens, pajama pants and several clothing projects. Students will be asked to purchase their own supplies for the class.

INTERIOR DESIGN * Grades 10-12 .5 Credit

This class is ideal for students who are considering a career in an interior design field or who have a special interest in color and design projects. This project-oriented course explores the world of interior design and housing choices as you gain hands-on experience working with floor plans, color schemes, fabric samples and furniture selection for a variety of interiors. Develop project boards for decorating dorm rooms, apartments, and single family homes that incorporate basic design principles.

CHILD DEVELOPMENT # Grades 10-12 .5 Credit

Child Development is designed for students that enjoy children and for those interested in careers in early childhood, elementary education, medical related careers, or have a special interest in parenting topics. Physical, emotional, social, and intellectual development of infants and preschoolers from birth until age 5 will be covered. Topics will include pregnancy and prenatal development, parenting skills, accident prevention and emergency procedures, child abuse and child nutrition. This course will provide the skills and knowledge to effectively interact and guide children in a safe and healthy environment. Students will participate in activities that include child observations and planning child based activities.

INDUSTRIAL TECHNOLOGY

 # Advanced Standing-Tech Prep

*** Indicates Art requirement credit**

TECH TRADE KNOWLEDGE # Grades 10-12 .5 Credit

This course develops the student's ability to follow instructions, interpret specifications, ad use various hand and power tools required to make thread repairs, soldering techniques, and double flare steel tubing. Various types of math problems are also addressed.

DRAFTING & DESIGN I * Grades 9-12 .5 Credit

This course is an exploration into the areas of architectural, engineering and computer-aided design and 3-D parametric modeling design. The theme of this course is that drafting and design are the extremely important factors in any mechanical, architectural or design process. The knowledge and skills achieved within this class will provide an excellent opportunity to prepare for any post-secondary engineering, design or technical program. If a career in drafting/design or engineering is in your future, this class is an excellent way to prepare yourself for that future endeavor.

DRAFTING & DESIGN II * Grades 9-12 .5 Credit

This class has been designed as a follow-up to the Drafting & Design I course. Drafting & Design II will explore the more advanced forms of engineering, architectural, model building and technical design. Areas of advanced computer-aided-design (CAD) such as 2-D, 3-D rendering and 3-D parametric modeling will be examined. This class will provide each student the academic skills and knowledge needed to prepare for a future in the high tech. fields of drafting, design, technical/graphic design, engineering and model building.

BASIC AUTOMOTIVE Grades 10-12 .5 Credit

This is an entry automotive class starting out very basic the first semester. Buying a car, use of tools, and survival techniques will be stressed. The second semester will have more hands-on experience with automotive electrical systems being stressed; such as starters, charging systems, and electrical systems. A unit on car stereos, hookups and speaker building will wrap up the course. This course is designed for students who want to learn more about their car, but can't fit a two credit class into their schedule or as a prerequisite to the two credit Auto Mechanics class.

SMALL ENGINES I Grades 10-12 .5 Credit

Students will work on two and four cycle principles on Briggs & Stratton, Lawn Boys, and Tecumseth engines.

SMALL ENGINES II # Grades 10-12 .5 Credit
Prerequisite: Small Engines I
Students will be dealing with recreational engines - primarily outboards and chain saws. Students will either work on their own engines or on models. This course is recommended but not required for auto mechanics courses. Some tech prep credits may be received from this course.

ELECTRONICS & COMMUNICATION I Grades 9-12 .5 Credit

This course is designed to introduce the student to the many electrical and communication concepts and their applications as found in our modern society. Areas to be covered will include basic electrical concepts and circuit design, engineering challenge series, which include two robotic challenges, binary, and logic communication systems with both wireless and hard wire configurations, parametric design, introduction to power and energy and an introduction to Adobe Photoshop and digital photography and communications.

ELECTRONICS & COMMUNICATION II # Grades 9-12 .5 Credit

In this course students will have the opportunity to enhance their previous learning and have the occasion to pursue areas of study which will include analog and digital electronics, circuit board design, Lego Mindstorm robotics, 3-D parametric design, test and measurement equipment and application, micro-controller application and programming and residential/commercial electricity and power. This course has been designed to help prepare the technical and engineering student for the course curriculum they will encounter in their post-secondary education. If you have taken previous science and electronic courses and wish to further your education, this class is an excellent next step.

WOODWORKING Grades 9-12 .5 Credit

This class is an introductory woodworking course and will focus on developing safe and proper woodworking skills. Each student will have the opportunity to build at least one project, and if time allows, additional projects will be provided. Whether you are an experienced woodworker or just a beginner, this is an excellent class to enjoy the benefits and satisfaction of working with wood.

FURNITURE & CABINETRY I Grades 10-12 .5 Credit
Prerequisite: Woodworking
(Drafting & Design I highly recommended)

In this class the student will be introduced to the fine art of furniture and cabinetry. Each student will be exposed to a wide variety of woodworking skills from the basic to the advanced. Each student will be allowed to choose their own project and the best methods and procedures to build it. If you are a creative person that enjoys working with your hands this is an excellent opportunity to begin a lifelong pursuit of a great career or hobby.

FURNITURE AND CABINETRY II Grades 10-12 .5 Credit
Prerequisite: Furniture and Cabinetry I

This class is for the student who has decided they have a strong desire to pursue woodworking as a post-secondary education, or who thoroughly enjoys working with wood and wants to increase their woodworking skills and knowledge. As in Furniture and Cabinetry I, the student will be encouraged to pursue a project of their own design or choice and determine the best procedure to build that project. If you would like an opportunity to learn by doing and be regulated only by your own artistic boundaries this is the class for you.

ANALOG & DIGITAL PHOTOGRAPHY I * # Grades 10-12 .5 Credit

This course is an exploration of photography from the pin-hole camera to digital photography. The student will learn how to use several forms of cameras with a strong emphasis on camera technique, composition and the application of Adobe Photoshop. In addition, the student will learn about the profound effect photographs have had on American life and society. If you consider yourself a creative person and wish to broaden your creative skills and talents, this class is an absolute must.

WELDING I # Grades 10-12 .5 Credit

This course in general welding will introduce the student to soldering, brazing, oxyacetylene welding and cutting, plasma cutting, arc welding, GMAW (Mig) welding, and TIG aluminum and steel welding. The student will also develop an understanding and appreciation of welding safety and good shop skills.

WELDING II # Grades 10-12 .5 Credit

In this class, the student will be involved in a group project and will also have the opportunity to research, design and build a project of their choice. To enhance learning, the student will become skilled in several design techniques plus blue print reading. In the lab, the student will be introduced to a number of new welding methods, processes and fabrication techniques. This class has been designed to allow the welding student the opportunity to fully realize their ability and talents and also to build a greater knowledge and understanding of the Welding and Manufacturing process.

AUTO MECHANICS Grades 11-12 1.5 Credits

Auto Mechanics is one hour first semester and two hours second semester. This course covers various areas in the field of mechanics. First semester areas of concentration include buying a car and car care, tune-up, carburetion, and emissions control work. Second semester includes basic electricity and electrical systems, valve work, and some major engine work. The last quarter will deal with a basic unit on auto body with weather permitting. Students will work on their vehicles and various models. Because it is a two-hour lab class, good attendance is extremely important. This course is beneficial to pre-engineering and pre-vocational students.

INTRODUCTION TO ENGINEERING 1500 Grades 11-12 .5 Credit

The purpose of the course is to acquaint students with the many engineering disciplines available to them as a profession. The student will explore professional aspects of engineering, including educational and professional career opportunities and the engineering curriculum requirements for each field. Other topics will include an introduction to problem-solving methods and computer applications in engineering. Communication skills will be developed through reports requiring written and oral presentations using Excel, Microsoft Word, and PowerPoint. Learning will be enhanced through the use of field trips.

INTEGRATED ALGEBRA –GEOMETRY I Grades 9-12 1 Credit

This course reviews linear algebra and introduces non-linear algebraic concepts. Geometry, data analysis, and probability are also covered. Calculators are needed for this course. Graphing calculators are recommended (TI 83 or 84 models).

INTEGRATED ALGEBRA-GEOMETRY II Grades 10-12 1 Credit

The focus of this course is the study of the properties of geometric figures. Algebra will be incorporated to solve many geometric problems. The development of proofs and logical thinking are goals of this course. Geometry is fundamental to many other areas of study.

GEOMETRY Grades 9-12 1 Credit
Prerequisite: Algebra

Geometry is a branch of mathematics that deals with the properties of lines, angles, triangles, circles, and many other types of figures. The development of proofs and logical thinking are goals of this course. Geometry is fundamental to many other areas of study.

ADVANCED ALGEBRA Grades 10-12 1 Credit
Prerequisite: (Geometry)

Many of the topics and concepts covered in elementary algebra are studied in greater depth for better understanding and mastery. New topics are introduced. It is an important class for college-bound students and students going into trades that require technical skill. Use of calculators is stressed.

BEGINNING COLLEGE ALGEBRA 1506 Grades 11-12 1 Credit
Prerequisite: Accuplacer Elementary Algebra Test score of 65 or higher
NCAA Eligibility: This course is not approved by the NCAA as meeting a math requirement.

This course will review many introductory algebra topics as well as introduce some new topics in algebra.

ANALYSIS I Grades 11-12 1 Credit

This course is the same as Beginning College Algebra 1506 except the course credit is high school only. Students enrolled in Analysis I are not required to meet the CIS admissions standards of Central Lakes College.

COLLEGE ALGEBRA 1470 Grades 11- 12 .75 Credit
Prerequisite: Beginning College Algebra 1506

Functions including polynomial, rational, inverse, exponential, and logarithmic. System of equations and inequalities. Matrices, sequences, series, binomial theorem, permutations, combinations, and probability.

ANALYSIS II Grades 11-12 .75 Credit

This course is the same as College Algebra 1470 except the course credit is high school only. Students enrolled in Analysis II are not required to meet the CIS admissions standards of Central Lakes College.

PRECALCULUS 1472 Grade 12 1.25 Credits
Prerequisite: College Algebra 1470

Intended to provide the essential mathematical background needed in Calculus. Topics include equation solving, functions (polynomial, radical, rational, exponential, logarithmic, trig, and inverse trig), identities, applications, and parametric, polar graphing.

CALCULUS I 1477 Grade 12 1.25 Credits
Prerequisite: Precalculus 1472

Review of the concept and properties of a function. Emphasis on the graphing and behavior of a function. Limits are introduced and developed. The derivative of a function is defined and applied to algebraic and trigonometric functions. Anti-differentiation and elementary differential equations. Definite integral as a limit of sum and as related to anti-differentiation via the Fundamental Theorem of Calculus. Applications to maximum, minimum, related rates.

MUSIC

Placement in Band or Choir will be based on audition. It may be possible for students to take Band and Choir during the same period.

*** Indicates Art requirement credit**

CONCERT BAND * .5 or 1 Credit

This is a progressive learning program aimed at developing the individual's playing ability as well as increasing the group's ability by performing music that is challenging and fun. Music selection will cover classical to popular or movie music to appeal to all types of musical interests. Three concerts are performed annually. Lessons will help individuals gain the ability they need to perform the concert music and become better musicians.

CONCERT CHOIR * .5 or 1 Credit

Concert Choir is a progressive vocal music experience aimed at developing each individual student through large group, small group, and solo singing. Students in Concert Choir will sing 3 and 4 part music in a variety of styles and concerts, ranging from Bach to pop. Three concerts are performed annually. Students will review and expand music fundamentals, especially sight-singing. Solo singing is encouraged but not required. Previous choir experience is desired but not required. A one-day choir trip is usually taken every spring. Concert Choir is a fun learning experience and a good class to learn teamwork while representing our school and community.

SYMPHONIC BAND * .5 or 1 Credit

Symphonic Band is open to students in grades 9-12 who have previously participated in Band. One credit is earned for a full year of satisfactory participation. The Symphonic Band performs at three concerts a year, as well as performing at athletic events as part of the Pep Band, and parades. Members are required to attend from 2 lessons per quarter, and are encouraged to participate in Region and State Solo and Ensemble contests.

A CAPPELLA CHOIR * .5 or 1 Credit

A Cappella Choir is offered to students in grades 9-12 who are interested in supporting their school through singing and performance. One credit is earned for one full year of participation. The course offers an aesthetic musical experience encompassing four to eight part harmony which is usually unaccompanied. The A Cappella Choir performs four concerts a year: Christmas, End of Winter Variety, Spring Pops, and at graduation as well as working collectively with the Chamber Singers on the Feast of Eastertide or Spring Variety Show. A major tour is taken every other year. Members are also required to participate in Section Large Group Choir Contest. Entrance is by audition in the spring of the previous year.

CANTARE CONCERT CHORALE 1421/1422* Grades 11-12 .5 Credit

This course is the same as A Cappella Choir with the following requirements:

*Three voice lessons per quarter
*One concert review or pre-approved assignment per quarter (one full typed page)
*Prepare a solo or ensemble selection for Minnesota State High School League Contest (whether you perform at contest or not)

Listening Assignment – Students may check out a choral CD from the director and evaluate two selections on the recording. A form will be available for students to fill out. CD's will not be checked out directly before or during rehearsals. The objective is for the student to increase his/her ability to listen critically for musical elements (as articulated by the MN Standards for Arts Education, 2003 edition) as they pertain to the choral art.

Concert Report – Students may attend a pre-approved musical concert/event, with the directors' approval, and evaluate the performance. Papers must be written/typed using 12-point standard font, using standard margins and papers must be 2-3 pages double-spaced.

CHAMBER SINGERS * Grades 10-12 .5 Credit

Chamber Singers is a select group of 12 to 16 singers chosen from the A Cappella Choir. Music from the Renaissance period in England is the main emphasis on Feast of Eastertide years. Other styles of music, such as Vocal Jazz and Pop are performed in the spring of the year and at the variety show. The chamber singers perform in three concerts as well as the Feast of Eastertide, section and state contests, and at many social and community gatherings. Entrance is by audition only.

SCIENCE

PHYSICAL SCIENCE WITH EARTH EMPHASIS Grade 9-10 1 Credit
Required

(An introductory study) - In this course, students will be introduced to fundamental skills so that they can engage in the process of science. These skills include: observing, experimenting, identifying problems, predicting, applying knowledge, defining terms, organizing data, interpreting data and results, and seeking further evidence. Students should clearly understand the investigative nature of science, engineering, matter, motion, energy, human interactions with physical and earth systems, earth structure and processes, interdependence within the earth systems and the universe.

BIOLOGY Grades 10-12 1 Credit
Required

This course will provide students with a general overview of current knowledge in the biological fields. Basic laboratory skills and technological applications will be taught and emphasized. A summary of a current news report about biology and multiple lab reports will be required each quarter. Topics covered will include scientific problem solving, heredity and genetics, nature of science and engineering, cell biology, ecology, evolution, human interactions within natural systems, human health and disease.

OUTDOOR SCIENCE Grades 11-12 1 Credit

Outdoor Science is a project based course designed to provide students with an investigative look into the animal kingdom and environmental systems. Students will explore the origin and relationships, classification, anatomy, function, social behavior and reproduction of a wide variety of species. Topics include entomology, ichthyology and mammalogy. Students will explore forestry, soil and aquatic systems and projects related to these systems.

FUNDAMENTALS OF CHEMISTRY 1414 Grades 11-12 1 Credit
Prerequisite: Accuplacer Elementary Algebra Test score of 57 or higher

This course involves the study of general laws of chemistry, periodicity, atomic and molecular structure, physical and chemical changes. Three hours of lecture and three hours of lab weekly. Intended for non-science majors.

CHEMISTRY Grades 11-12 1 Credit

This course is the same as Fundamentals of Chemistry 1414 except the course credit is high school only. Students enrolled in Chemistry are not required to meet the CIS admission standards of Central Lakes College.

HUMAN BIOLOGY I 1404 Grades 11-12 1 Credit

This course provides an introduction to the structure and function of the human body using an organ systems approach. The organ systems studied include the integumentary, skeletal, muscular, circulatory, respiratory, digestive, excretory, nervous, endocrine and reproductive systems. Human development and heredity will also be integrated. Two hours lecture and a two-hour lab weekly. This course is designed for dental assisting, practical nursing and associate degree in nursing students, as well as social work and non-science majors.

HUMAN BIOLOGY Grades 11-12 1 Credit

This course is the same as Human Biology I 1404 except the course credit is high school only. Students enrolled in Human Biology are not required to meet the CIS admissions standards of Central Lakes College.

COLLEGE PHYSICS I 1401 Grades 11-12 1 Credit
Pre or co-requisite: Beginning College Algebra 1506 & College Algebra 1470

This course gives a general theoretical and practical introduction to physics. The theory part contains the following topics: Kinetics of one and two dimensions, force and dynamics, circular motion, gravitation, work and energy, linear momentum, rotational motion, bodies in equilibrium, waves, and sound. The practical topics will include the use of lab equipment to help develop these concepts. Knowledge of college algebra and some trig is needed for success in this course. This course is intended for students intending to major in dentistry, pharmacy (and other fields related to medicine), forestry, biological sciences, etc. Lab is required.

PHYSICS Grades 11-12 1 Credit

This course is the same as College Physics I 1401 except the course credit is high school only. Students enrolled in Physics are not required to meet the CIS admission standards of Central Lakes College.

SOCIAL STUDIES

CIVICS 9 — Grade 9 — .5 Credit

This class is designed to provide young citizens with basic information concerning their government and the opportunities and problems that face them. Students are encouraged to exercise critical thinking as they develop an appreciation of democracy's many privileges and an awareness of the obligations that accompany these privileges. They will also be encouraged to start thinking about their life's work and about certain competencies required for career success and independent living. **(Half year)**

AMERICAN HISTORY — Grade 10 — 1 Credit

American History covers the history of the United States from the Civil War to the war in Vietnam. Students will gain an understanding of how our country prevailed through various tumultuous periods during this time span in history.

WORLD HISTORICAL GEOGRAPHY — Grade 11 — 1 Credit

A student's junior year of social studies involves course-work in two separate areas. The first area is the study of world history, with an emphasis placed on the many civilizations and cultures that have and continue to affect world affairs. The second area of study is a 4-5 week unit on careers. It emphasizes self-assessment, career research tools, and different avenues to training for a career.

SENIOR SOCIAL — Grade 12 — 1 Credit

Senior Social will cover contemporary history from the end of World War II to the present. Students will learn about the presidents and their policies, the economy, geography, battles, the feminist movement, terrorism, the Cold War, fads, civil rights, and other issues that occurred during this period.

COLLEGE IN THE SCHOOLS SOCIAL STUDIES

U.S. HISTORY 1877 TO PRESENT 1473 — Grade 12 — 1 Semester — .75 Credit

This course will acquaint students with the basic chronological narrative and themes of U.S. history—especially the reorganization of politics, the economy and society of American history since the end of Reconstruction.

CULTURAL ANTHROPOLOGY 1457 — Grade 12 — 1 Semester — .75 Credit

Cultural Anthropology is the comparative study of contemporary human cultures, and includes analysis of various aspects of culture, such as language, food-getting, family and kinship, economics, politics, religion, and change.

SPANISH

SPANISH I Grades 10-12 1 Credit

This is a beginning-level Spanish course designed to give students exposure to the Spanish language and Latin American culture. Students will be taught through immersion giving them the most opportunity to experience the language and culture. They will learn useful phrases and concepts that are applicable to everyday life.

SPANISH II Grades 11-12 1 Credit

This is a beginning-level Spanish course designed to build upon Spanish I. It is also taught through immersion; giving students the opportunity to develop their language skills and expand their understanding of the culture. Students will be challenged to improve not only their written and verbal skills, but also to advance their ability to read and listen.

SPANISH III
*Prerequisite: Spanish I & II Grade 12 1 Credit

This is an advanced Spanish course that provides the opportunity to learn about other cultures in the Spanish-speaking world. Class will consist of group discussions, lectures, readings, video production, and much more! The entire course will be conducted in Spanish, and students will be expected to use as much Spanish as possible on a daily basis to improve individual fluency. Grammar will be reviewed, but the main focus is culture.

SPECIAL AREAS

TOPICS IN HEALTH -
HEALTH CARE OCCUPATIONS 2570 Grades 11-12 .75 Credits

Students enrolled in this course will participate in a unique partnership between Crosby-Ironton High School and Cuyuna Regional Medical Center. Topics covered in the course include the history and present state of healthcare, successful and essential behaviors of healthcare workers, as well as legal and ethical issues in healthcare. A major component of this course is participation in healthcare career rotations at Cuyuna Regional Medical Center.