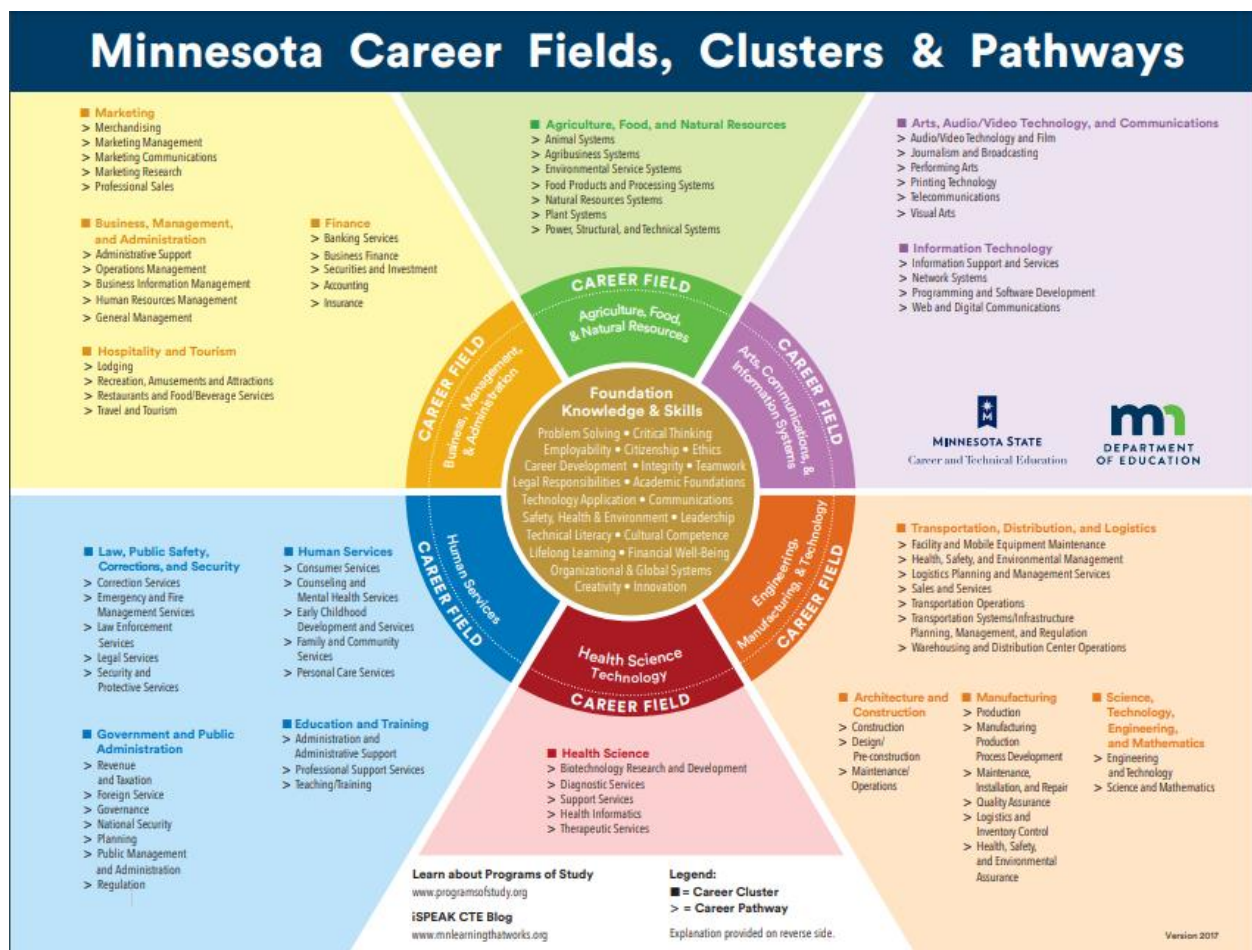


Crosby-Ironton High School

Registration Guide

2020-2021



Mission: Learning Through Relationships

Vision: Career and College Readiness for all students.

*Course offerings are dependent upon registration and staffing.
 *Not all courses listed will be included for final class registration.

Student Guide to Graduation Requirements & Course Descriptions

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Crosby-Ironton High School operates on a six period day. Courses run for approximately 52 minutes per day for one semester (18 weeks). There are two semesters each year. Some courses are two semesters in length. All students are required to take a minimum of 5 courses and a maximum of 7 courses each semester. The school day begins at 8:30AM and ends at 2:42PM.

Crosby-Ironton Grading Scale

Letter Grade Earned	Grade Point Average	How an Employer and/or College Views the grade.
A	4.0	Superior, far exceeds average understanding as evidenced in course work and goes significantly beyond the standards.
A-	3.67	Excellent, exceeds average understanding as evidenced in course work and goes well beyond the standards.
B+	3.33	Far above average, meets or exceeds average understanding as evidenced in course work and fully understands the standards and goes somewhat beyond that level.
B	3.0	Far above average, fully meets average understanding as evidenced in course work and fully understands the standards and can deal with concepts somewhat beyond that level.
B-	2.67	Just above average, fully meets standards for basic understanding as evidenced in coursework and fully understands the standards and can deal with concepts at that level.
C+	2.33	Slightly above average, fully meets expectations for basic understanding as evidenced in coursework and understands the standards.
C	2.0	Average, meets minimum expectations and satisfies course requirements.
C-	1.67	Slightly below average, meets bare minimum expectations and satisfies course requirements.
D+	1.33	Below average, meets most minimum expectations and satisfies all or most course requirements.
D	1.0	Below average, meets most minimum expectations and satisfies most course requirements.
D-	.67	Far below average, but meets most minimum expectations and satisfies most course requirements with minimal understanding evidenced in course work.
F	0	NO CREDIT: Fails to meet minimum expectations in understanding and course work as evidenced by performance and submission of graded elements.
I	0	NO CREDIT: Incomplete
NC	0	NO CREDIT: No Pass. Inadequate achievement
P	0	PASS: Met average or above standards

Class Drop Policy:

If a student wishes to drop a class during the first 10 sessions of a class or 2 calendar weeks (whichever is shorter), they may do so with guidance office and teacher permission (many courses require parent permission). Students may only change courses during this time frame.

After 10 class sessions (or 2 calendar weeks) the student will receive a “WD” (withdrawal) on their high school transcript. This “WD” will not impact the student’s cumulative grade point average. It will only indicate that a course was begun, but not completed. Dropping a course after the first 20 sessions of a class or 4 calendar weeks (whichever is shorter) the student will receive an F for the course and it WILL impact the student’s cumulative grade point average. If a student is experiencing difficulty they should connect with the teacher about instructional options. If there are major concerns the student should contact the school counselor or principal about appealing this policy. Students must maintain a minimum of 5 courses per semester.

C-IHS REQUIRED CLASSES AT EACH GRADE LEVEL

Students need to complete a minimum of **22** credits in grades 9-12 to be eligible for graduation. A year long course is worth one (1) credit. Semester courses are worth 1/2 credit unless otherwise noted. Student must take a minimum of 5-7 courses per semester. Credits are required in the following subject areas:

<p>Grade 9</p> <p>English 9 1 credit Civics 1/2 credit Math course 1 credit Science course 1 credit Phy Ed. 1/2 credit Health 1/2 credit STEM* 1/2 credit Electives 1/2-1 credit</p> <p>Grade 10</p> <p>Science course 1 credit English 10 1 credit Human Geography 1/2 credit Economics 1/2 credit Math course 1 credit Electives 1 1/2 -2</p> <p><i>4 Year College Requirements</i></p> <p>4 years of English 3-5 years of Social (US history, Geography) 3-4 years of Math (prefer 3 years of Algebra) 3 years of Science (Biological Sci. & Physical Sci.) 2 years of a <i>single</i> world language 1 year of fine arts ACT/SAT Score</p>	<p>Grade 11</p> <p>Social Course 1 credit English course 1 credit Math course 1 credit Science course 1 credit Electives 1 1/2-2 credits</p> <p>Grade 12</p> <p>English course 1 credit Social course 1 credit Electives 2-4 credits</p> <p>**Elective Requirement</p> <p>Arts (music, visual, media) 1 credit STEM* Class of 2023 .5 credit</p> <p>*Complete Required Testing. *Class of 2017 and beyond must complete a “6 year plan” as part of the “World’s Best Workforce” law.</p> <p><i>2 Year College Requirements</i></p> <p>High School Diploma or GED Recommend 2 years of Algebra Accuplacer Score</p>
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The MCA and College/Career Readiness Exams are Graduation Tests developed by the [Minnesota Department of Education](http://www.doe.state.mn.us). Below is a guide to follow for which test students take depending on grade level.

Test	Grade Level
MCA-III Reading	Grades 3-8 and grade 10
MCA-III Mathematics	Grades 3-8 and grade 11
MCA-III Science	Grades 5 ,8 and High School Biology
College/Career Readiness Exams	Grade 11

College Admissions



Admission at most of the state universities is granted to students who have graduated in the upper 50% of their high school graduating class or who have obtained at least a score of 21 on the ACT test. Some of the universities have stricter academic requirements. Students not meeting the criteria may be considered for admission under each university's conditional/provisional admission policy, which considers potential for success in college and other factors.

Students who wish to enroll in a [Minnesota State University](#) will need to demonstrate completion of the following college preparatory curriculum while in high school or their competency equivalent.

- English - 4 years (composition, literature, speech)
- Mathematics – 3-4 years (2 years of algebra and one year of geometry)
- Science - 3 years (1 year each of a biological science and physical science, and all courses with labs).
- Social Studies – 3.5 years (including 1 year of geography & U.S. History).
- World Language - 2 years of a SINGLE world language
- World Culture or Fine Arts - 1 year.

These requirements are similar to those at the University of Minnesota and many private colleges in Minnesota. Students should check with the college for their individual requirements.

NCAA Eligibility Requirements for Student Athletes



If you're interested in playing college sports, there are a few things you should know.

The NCAA (National College Athletic Association) has academic standards you must follow to be a student athlete. To play sports in college, you must complete at least 16 core courses while in high school with a qualifying grade point average and test scores. The requirements vary for *Division I* and *Division II*.

This includes:

- * 3-4 years of English
- * 2-3 years of math (Algebra 1 or higher)
- * 2 years of natural or physical science
- * 2 years of social science
- * 1 year of an ADDITIONAL course in math, English, or natural or physical science
- * 4 years of additional academic courses in any of the above areas or in foreign language, philosophy or comparative religion

* All students that want to play sports at the Division I or II level must have their course work and test scores evaluated by the NCAA Initial Eligibility Clearinghouse. To register with the clearinghouse visit www.eligibilitycenter.org and see your high school counselor. This should be done the end of Junior year.

For more information on high school academic standards and eligibility visit www.eligibilitycenter.org.

Students with Unique Needs



Crosby-Ironton High School is committed to providing the best educational environment for *all* students.

Students with Individual Education Plans (IEP's) or 504 Accommodation Plans are encouraged to review the information in this course description catalog with their case manager as they are selecting classes.

If you are a college bound student with a learning or physical disability, the PACER Center offers some tips on preparing for college. PACER Center is a [parent training and information center](#) for families of children and youth with all disabilities from birth through 21 years old:

For more information, contact the Pacer Center at (612) 827-2966 or www.pacer.org



Minnesota
STATE COLLEGES
& UNIVERSITIES

College Courses at C-I

This list is subject to change due to instructor qualifications.

Students can take a number of courses to earn college credit right here at Crosby-Ironton High School.

Central Lakes College Courses: Advanced Standing-Tech. Prep.

Courses with a "B" or better transfer into the Central Lakes College or other participating colleges for college credit. <http://www.clcmn.edu/cis/advancedstanding.html>

Classes taught by C-I teachers at C-I High School, earn college credit beginning Junior year.

High School Course	CLC Credit
Child Development and Careers with Children	CDEV 1307: Child Health, 1 cr. CDEV 1305: Child Abuse & Neglect, 1cr. CDEV 1306: Child Safety, 1 cr. CDEV 1308: Child Nutrition, 1 cr.
Digital Photography 1	PHIM 1164: Survey of Imaging, 2 cr.
Digital Photography 2	PHIM 1164: Survey of Imaging, 2 cr.
Multi-Media Projects	PHIM 1164: Survey of Imaging, 2 cr.
Welding 2	WELD1140: Trade Knowledge, 2cr.
Welding 1	WELD 1100: Intro. to Welding, 2 cr.
Small Engines	MASE :Elective in Marine and Small Engines, 1 cr.
Outdoor Science	NATR 1200: Introduction to Natural Resources, 3 c

The [Minnesota State Colleges and Universities \(MnSCU\) Concurrent](#) Enrollment courses are taught by Crosby-Ironton High School teachers at Crosby-Ironton High School and earn college credits that are highly transferable.

MnSCU College Courses-Concurrent Enrollment

Juniors with cumulative GPA of 3.0 or higher and Seniors with a cumulative GPA of 2.5 or higher. Credits transfer to any MN state college or university and other institutions based on that institution's policy.

C-IHS Course	College Credit
Senior Social: US History to 1865	HIST 1472: US History to 1865, 3 credits
Senior Social: US History since 1865	HIST 1473: US History since 1865, 3 credits
Junior Social:	HIST 1412: World History from the beginning to 1500, 3 credits
Junior Social:	HIST 1413: World History 1500 to the Present, 3 credits
Science Elective	BIOL 1404: Human Biology, 3 credits
Science Elective	CHEM 1414: Fundamentals of Chemistry, 4 credits
Science Elective	BIOL: 1415: Environmental Biology, 4 cr.
English 12	COMM 1430: Public Speaking, 3 cr.
English 11 or English 12	ENGL 1410: Composition I, 4 credits
English 11 or English 12	ENGL 1411: Composition II, 4 credits
English 12	ENGL 1463: Intro to Literature, 3 credits
Math Elective	MATH 1520: Introduction to College Algebra, 3 credits
Math Elective	MATH 1470: College Algebra, 3 credits
Math Elective	MATH 1472: Precalculus, 5 credits
Math Elective	MATH 1477: Calculus I, 5 credits
Elective: Health Care Occupations	HINS 1120: Introduction to Health Information and Security, 1 credit HINS 2190: Professional Practicum, 2 credits
Elective: Spanish 2	SPAN 1402: Beginning Spanish II, 4 credits
Elective: Spanish 3	SPAN 2401: Intermediate Spanish 1, 4 credits
Elective: Global Studies	GLST 1401: Introduction to Global Studies, 3 credits

SELECTING ENRICHED OR CIS (College In the Schools) CLASSES

C-I offers enriched or college level courses in [English, social, science, mathematics, Spanish and health](#). Students must meet criteria, to ensure that students have the experience and the ability to succeed in these challenging courses. *Check in the course descriptions section for criteria for enrollment in college level courses.*

Students who enroll in college courses can expect to work at a college level pace and cover more complex material in greater depth than in the standard high school courses. Please be mindful, expectations in these classes are high. Grades earned by students in these classes become part of their permanent college academic record. Students who qualify to take these classes must be able to organize and manage their time, balance homework with extra-curricular activities and work, and initiate communication regularly with their teachers concerning make-up work. Because this is a college course, there will be higher expectations in academics and accountability for students that supersede rules and expectations listed in the high school student handbook. Another responsibility for students in a college-level course is to address any concerns related to grades or performance in the classroom. *Our CIS courses tend to carry more “weight” on your cumulative grade point average due to the state law of credit bearing (.25 C-I credit of every 1 CLC credit). Due to this please note that the CIS grades will “help or hurt” your GPA.*

Taking a CIS course will also change your exposure to instruction. Please read the course descriptions to determine the best instruction for you! Please carefully consider this before registering for these classes. Students who register for college level courses but do not meet the criteria will be placed in traditional courses.

CIS	PSEO
College content	College content
Credits transfer to most colleges	Credits transfer to most colleges
Attend at C-I High School (drive time)	Attend at the college of choice (drive time)
Teacher (trained in teaching)	Professor (trained as “expert in field”)
Increased weekly “contact time” (instructional time)	Less weekly “contact time” (instructional time)
18 weeks (or more) to cover content	14 weeks to cover content
Class of peers	Class of various ages (average is 26)
Parents have access to grades/progress	Parents have VERY limited access to grades/progress
Students have 0-2 hours of homework per week	Students avg. 2-3 hours of homework for each hour of class

POST-SECONDARY ENROLLMENT OPTIONS

[Post-Secondary Enrollment Options \(PSEO\)](#) allows high school juniors and seniors to take courses, full or part-time, at a post-secondary institution for high school and college credit. Juniors must have a minimum cumulative GPA of 3.0. Seniors must have a minimum cumulative GPA of 2.5. All students must take the Accuplacer, a college entrance exam to identify where the student is at in areas of math and reading. The program was designed to provide students with a greater variety of class offerings and the opportunity to pursue more challenging coursework than may be available at the high school. A student who is in the 10th grade may apply to an eligible postsecondary institution for the purpose of enrolling in a Career and Technical Education (CTE) course. The 10th grade student must have taken the 8th grade MCA Reading test in the 8th grade and have met the composite proficiency level of meets or exceeds. The tuition, fees, and required textbooks are at no cost to the students. Please be mindful, expectations in these classes are high. Grades earned by students in these classes become part of their permanent college academic record.

Students who qualify to take these classes must be able to organize and manage their time, balance homework with extra-curricular activities and work, and initiate communication regularly with their teachers concerning make-up work. Because this is a college course, there will be higher expectations in academics and accountability for students that supersede rules and expectations listed in the high school student handbook.

Another responsibility for students in a college-level course is to address any concerns related to grades or performance in the classroom. Please carefully consider this before registering for these classes. For more information on the PSEO program, see Ms. Doyle, your high school counselor. There are time deadlines for enrollment determined by each college institution.

Minnesota State College and University (C-I College in the Schools) Minnesota Transfer Curriculum

Minnesota State College and University’s version of the Minnesota General Education Transfer Curriculum (MnTC) is a 40-credit course cluster designed to transfer by formal agreement to all Minnesota public colleges and universities where it will meet all lower division general education requirements. A 2.0 MnTC GPA is required for recognition of a student's completion of the entire Minnesota Transfer Curriculum.

CLC’s transfer curriculum, like similar curricula in all public colleges and universities in the State of Minnesota, is designed to provide students with a broad liberal arts and sciences foundation integrated with communications and thinking skills, and a study of contemporary concerns – all essential to serving an individual student’s lifetime personal, social, and career needs. This curriculum recognizes that knowledge of the liberal arts and sciences, by its universality and timelessness, equips students to transcend individual differences and the inevitable changes affecting life in the 21st century.

Transferology® Will my courses transfer?

<https://www.transferology.com/index.htm>

Simply enter your courses to find equivalent courses at other schools. Matches are ranked by awarded credit, so you can eliminate the guesswork and maximize your transfer potential. School Profiles offer quick access to program information, school size, and tuition & fees cost. You can even set up a campus visit with a click of a button!



Distance Learning Opportunities

C-I School District is in collaboration with other local school districts to provide high school level and college in the school’s courses to increase opportunities and flexibility to all our students. High school students grades 9-12 may be eligible to take a Distance Learning class. If students are interested, they may visit www.mninfinity.org for some course information or see Ms.Doyle for all resources and registration materials. These courses are considered “non-traditional” for NCAA purposes. Interested in trying an online mini-course? You can try a demo course to experience if online learning is right for you. We highly recommend you try it!

1. Log into: <https://mnsite.ims.mnscu.edu>
2. Username: Chocolate
3. Password: Chocolate

Should you take an online/ITV course?

I have good time management skills and can stick to a schedule without prodding and reminders from a teacher.	Yes/No
I am resourceful at figuring out what to do next when I hit a roadblock in following instructions.	Yes/No
I am NOT a procrastinator.	Yes/No
I would rate my reading ability at “above average” or higher.	Yes/No
I express myself fairly well in writing.	Yes/No
I would rate my technology skill level at “above average” or higher.	Yes/No
I have access to a computer and the Internet at home.	Yes/No
I am good at problem-solving technical difficulties on the computer.	Yes/No
7-8 Yes answers= good candidate 4-6 Yes answers= will struggle 0-3 Yes answers=avoid/not good candidate	



C-I Bridges Career Academies

The Student Experience

1. Personalized Learning

BRIDGES Academy courses are based on personal interests and career aspirations. Courses are project-based instruction and integrate academic and technical skills with hands on learning activities. Students take ownership in their lessons and in many cases select the course projects.

2. Practical Learning Opportunities

BRIDGES Academies provide practical learning opportunities throughout the course work. Students will learn skills that will transfer to activities beyond the school day.

3. Progress to Career Goal

BRIDGES Academies will provide students with information about a particular career and develop an understanding of career progression. Enrollment in an Academy will provide personalized experiences with the 'world of work' through job shadowing, industry tours, and career fairs.

4. Integrated Learning Opportunities

Academy courses provide integrated learning. Courses combine technical, academic, and work skills that are critical to the specific career.

5. Recognition of Achievement

Completion of an Academy will provide students with an opportunity to be recognized at their high school graduation with an Academy certificate and honor cord.

6. Opportunities for Credit Transfer

Some Academies have courses that are articulated/Tech Prep. (Central Lakes College Advanced Standing Articulation Courses) or college courses (Central Lakes College in the Schools Courses). These courses provide opportunities for credit advancement/transfer to a post-secondary technical program of study. See page 5 of this guide.

7. Business Partnerships

The BRIDGES Academies and Workplace Connection provide students with opportunities to meet with and tour local businesses. In some cases, students who complete an Academy will be given an *opportunity to interview for potential job openings*.

See our Crosby-Ironton Academies in the back of this guide.



APPLIED TECHNOLOGY (Formally known as Industrial Tech.)

CAD DRAFTING & DESIGN

Grades: 9, 10, 11, 12

Credit: .5

Length: semester

BRIDGES Construction and Manufacturing Career Academy course

Tech Prep college credit available, see page 5

Art requirement credit

STEM requirement 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.

BASIC AUTOMOTIVE

Grades: 10, 11, 12

Credit: .5

Length: semester

BRIDGES Transportation Career Academy course

This is an introductory course that is intended to provide students with basic knowledge to make wise economic decisions and take preventative measures that help them become well informed, safe drivers and automobile owners. This course will provide fundamental knowledge and experience in owning and maintaining a vehicle as well as survival skills in roadside emergencies.

SMALL ENGINES

Grades: 10, 11, 12

Credit: .5

Length: semester

BRIDGES Transportation Career Academy course

Tech Prep college credit available, see page 5

Students study the theory, operation, maintenance, troubleshooting and repair of both two stroke cycle and four stroke cycle small gas engines and outdoor power equipment. Safety, using proper tools and techniques, and current trade practices will be emphasized. This is a course where students can develop workplace skills (work ethic, problem solving, time management, reliability, honesty, teamwork, etc.).

SMALL ENGINES 2

Grades: 10, 11, 12

Credit: .5

Length: semester

BRIDGES Transportation Career Academy course

Tech Prep college credit available, see page 5

Students study operation, maintenance, troubleshooting and repair of both two stroke cycle and four stroke cycle small gas engines and outdoor

power equipment. Safety, using proper tools and techniques, and current trade practices will be emphasized. This is a course where students can develop workplace skills (work ethic, problem solving, time management, reliability, honesty, teamwork, etc.).

RESIDENTIAL & COMMERCIAL WIRING

Grades: 9, 10, 11, 12

Credit: .5

Length: semester

BRIDGES Construction Career Academy course

STEM requirement 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, both wireless and hard wire configurations, parametric design, introduction to power.

CONSTRUCTION 1

Grades: 9, 10, 11, 12

Credit: .5

Length: semester

BRIDGES Construction Career Academy course

Students will perform hand and machine operations including assembly for the construction of fixtures and other articles of wood or related materials, after completion of a safety test. Each student will have the opportunity to build at least one carpentry project, and if time allows, additional projects will be provided.

CONSTRUCTION 2

Prerequisite: Construction 1

Grades: 10, 11, 12

Credit: .5

Length: semester

Each student will have the opportunity to design and build an advanced carpentry project.

WOOD PRODUCTION 1

Grades: 9, 10, 11, 12

Credit: .5

Length: semester

BRIDGES Construction Career Academy course

Students will perform hand and machine operations including cutting, shaping and assembly of fixtures, furniture, other articles of wood or related materials, after completion of a safety test.

Each student will be exposed to a wide variety of woodworking/cabinetmaking skills from the basic to the advanced.

WOOD PRODUCTION 2

Prerequisite: Wood Production 1

Grades: 10, 11, 12

Credit: .5

Length: semester

Each student will expand on a wide variety of woodworking/cabinetmaking skills. Each student will be allowed to choose their own project and the best methods and procedures to build it.

WELDING 1

Grades: 10, 11, 12

Credit: .5

Length: semester

BRIDGES Manufacturing Career Academy course

Tech Prep college credit available, see page 5 of this guide

STEM requirement credit

This course is an introduction to welding and the metal shop. Students will explore welding and develop basic, traditional welding skills using oxy-acetylene and arc welding equipment through a great variety of assignments and small projects. Students will learn to safely use all of the various hand and power tools in the metal shop. Students will be introduced to the CNC plasma table. This is a course where students can develop workplace skills (work ethic, problem solving, time management, reliability, honesty, teamwork, etc.). As always, student safety is the first priority.

WELDING 2

Grades: 10, 11, 12

Credit: .5

Length: semester

This is a more in-depth study of welding with a focus on more modern techniques and processes (MIG, TIG, & CNC plasma table). Assignments and projects will feature greater variety and complexity than Welding 1 and greater quality is expected. This course will help students further develop workplace skills (work ethic, problem solving, time management, reliability, honesty, teamwork, etc.). Again, student safety is the first priority.

Advanced Welding and Fabrication

Prerequisite: Welding 2 with a "B" or better (or teacher approval)

Grades: 11, 12

Credit: .5

Length: semester

BRIDGES Manufacturing Career Academy course

STEM requirement credit

This is the most in-depth study of welding at CIHS. Assignments and projects will require advanced mastery of welding techniques, processes and positions on a variety of materials. A part of this course is a student designed or modified "capstone" project that may involve incorporating hydraulics, pneumatics, or small gas or diesel engines along with welding and fabrication. Students may work as a group on capstone projects. There is also a "community service component to this course. Each student is required to "donate" one hour per month to welding and repair work around school or for the

community. Students in the course are expected to demonstrate highly developed workplace skills (work ethic, problem solving, time management, reliability, honesty, teamwork, etc.). As always, student safety is the first priority. Class fees could be \$20-\$80, depending on design.

COMPUTER SCIENCE for INNOVATORS

Prerequisite: none

Grades: 9, 10, 11, 12

Credit: .5

Length: semester

STEM requirement credit

Students will extend their programming/coding skills for the physical world by blending hardware design with software development. Students will create tangible and shareable projects with multiple applications.

APP CREATORS

Grades: 9, 10, 11, 12

Credit: .5

Length: semester

STEM requirement credit

In this course students will explore sustainable solutions, then develop solutions to authentic problems through mobile applications development. The focus content is on "green" energy/technology

DIGITAL PHOTOGRAPHY & VIDEO PRODUCTION

Grades: 10, 11, 12

Credit: .5

Length: semester

BRIDGES Graphic Arts Career Academy course

Tech Prep college credit available, see page 5 of this guide

Art requirement credit

This course is designed to engage students in the lifelong hobby of photography. Students will learn to capture unique images through the use of photography concepts like composition, lighting, and exposure. Students will use a free and open source program called GIMP to edit images and create projects. Other multimedia software may be used as well.

DIGITAL PHOTOGRAPHY 2

Grades: 10, 11, 12

Credit: .5

Length: semester

BRIDGES Graphic Arts Career Academy course

Tech Prep college credit available, see page 5

Art requirement credit

This course is designed to prepare students who are interested in becoming a serious amateur photographer or pursuing a photography career. Students will learn about advanced photography concepts like Aperture, Shutter Speed, ISO, and their relationship to one another. Students will use GIMP and other multimedia software to enhance their images and design creative projects.

ROBOTICS with COMPUTER PROGRAMMING

Grades: 9, 10, 11, 12

Credit: .5

Length: semester

STEM requirement credit

Students will begin learning the concepts of programming through various introductory languages and environments. Students will apply what they learn to create programs, applications, and games. A unit on robotics will be included. This course is designed to be a rewarding and fun learning experience for students of all programming skill levels.

SCIENCE of TECHNOLOGY

Grades: 10, 11, 12

Credit: .5

Length: semester

STEM requirement credit

Students will apply concepts of the engineering process of design to solve real-world problems that will make a positive impact on the medical or manufacturing communities.

ENTREPRENEURSHIP

Grades: 10, 11, 12

Credit: .5

Length: semester

Entrepreneurship, the act of creating a new business, is undertaken by millions of individuals each year. By meeting the wants and needs of consumers, entrepreneurs turn their ideas into goods and services and, at the same time, build rewarding careers for themselves. This course takes students through the entire process of owning their own business, from skills required to identify and meet a market need, to critical thinking, planning, financing, and hiring. Any student, who envisions himself/herself as an owner of a business one day, or as an active participant in the business world, will find this course an excellent resource.

ENGLISH



The English Department teaches the four major areas of the language arts curriculum – reading, writing, speaking, and listening – to help students’ better use, understand, and appreciate the English language. The department aims to improve students’ ability to communicate effectively, both orally and in writing; to think critically; and to discover levels of meaning in a piece of writing. In addition, the English curriculum is designed to promote readiness for college coursework. Reading material is chosen both for its content – to expose students to a wide range of thought and experience – and for its importance in the literary canon. We believe that frequent reading and writing is essential to the English student’s development. Student writers receive guidance through the writing process from teachers and peers, with the goal that writers are able to analyze and revise their own work to produce highly-polished final drafts.

English 9

Required 9th grade course

Prerequisite: English 8

Credit: 1.0

Length: Year

Ninth grade English focuses on the mastery of supporting ideas using textual evidence in writing and discussion. Towards the beginning of the year, students will read short stories while discussing characters, scene, plot, and theme through shared inquiry. Throughout the process, students will gather information to support their theory and construct a paragraph, complete with textual evidence. Ninth graders will continue working on their paragraph skills in order to tackle the five paragraph essay. As such, grammar rules are consistently applied. A variety of texts are read throughout the year to support students’ literacy growth and to encourage them to never turn down a challenging read. Students will also develop vocabulary through reading, context clues, and a focus on Greek and Latin Roots.

English 10

Required 10th grade course

Prerequisite: English 9

Credit: 1.0

Length: Year

A major aspect of this course is the emphasis in analyzing literature in greater depth and producing more complex writing assignments. Students will continue to apply the knowledge acquired in earlier grades with more reinforcement, depth, and sophistication with grade-appropriate material. Students will expand their writing and refine grammar and punctuation skills throughout written work. They will also develop vocabulary through reading, root word work, and context clues. A variety of texts will be read, including *Night* and *Lord of the Flies*. In these units, students will learn how to give an informative speech, diving into the research process, and write a persuasive essay, including textual evidence to support their ideas. Reading comprehension and critical thinking skills are also emphasized in this course as the students prepare for the MCA III test. Students will review figurative language, imagery, allegory, and symbolism during this time.

English 11

Required or College in the Schools

Prerequisite: English 10

Grades: 11

Credit: 1.0

Length: Year

11th Grade English is a full year course designed to reinforce the writing, speaking, listening, reading, and critical thinking skills attained by students in English 9 and 10. A variety of classical, contemporary American and British literature is read. Students will work together and individually to gain a better understanding of the different types of literature. In addition, students will also be writing essays (both formal and personal), creating class presentations and other projects, reviewing grammar and punctuation rules, and increasing their vocabulary. Some practice for the ACT—including practice timed writings and test taking techniques will be reviewed.

Students will also develop vocabulary through reading, root word work, and context clues.

English 12

Required or College in the Schools

Prerequisite: English 11

Grades: 12

Credit: 1.0

Length: Year

This course is designed to increase the student's ability to use English effectively in practical situations. It emphasizes sentence structure, grammar, vocabulary, and different forms of oral and written communication needed to function in the world.

Through a survey of various types of American and world literature (prose and drama), the student will learn to analyze selected writings through both oral and written methods. The course also focuses on the attainment and refinement of grammar and vocabulary skills and places emphasis on literary and expository writing which combines analytical thinking skills and the use of grammar.

In addition, this course will emphasize essay writing for students who intend to go to college. During the year, students will write essays, in class and out, of varying lengths. Students will learn to write effective introductions and conclusions, to organize their thoughts, to illustrate ideas with specific details, and to revise their papers.

This course is also designed to further enhance the student's oral communication skills. Emphasis is placed on organization and structure of a speech and the effectiveness of the speech delivery.

College Composition 1 1410

Prerequisite: Accuplacer Reading Test score of 250 + (or) ACT Reading 21+

Completion of English 10/11 with a B or better

Grades: 11 or 12

Credit: 1.0

Length: Fall Semester

College in the Schools Central Lakes College: Transfer Curriculum Goal 1 Communications 4 credits.

The rhetorical strategies of description, narration, and exposition (including but not limited to exemplification, classification, process analysis, comparison/contrast, and definition) will be the focus of the course. A descriptive essay, a narrative essay, and five expository essays at the professor's discretion will constitute the seven formal essay

assignments. Students may also be asked to write journals, a resume and letter of application, and to review grammar. Students will be expected to adhere to the basic writing process (brainstorming, outlining, drafting, and revision—individual and peer) and demonstrate their awareness of the following concepts in their reading and writing: thesis, audience, tone, unity, coherence, and emphasis. The course will also include a literature component (selections at professor’s discretion) to present basic critical terminology and foster critical thinking skills. A “C” is needed for college credit.

College Composition 2 1411

Prerequisite: Completion of Composition 1 1410 with a C or better

Grades: 11 or 12

Credit: 1.0

Length: Spring Semester

College in the Schools Central Lakes College: Transfer Curriculum Goal 1 Communications 4 credits.

A major aspect of this course is the emphasis in analyzing literature in greater depth and producing more complex writing assignments. Students will continue to apply the knowledge acquired in earlier grades with more reinforcement, depth, and sophistication with grade-appropriate material. Students will expand their writing and refine grammar and punctuation skills throughout written work. They will also develop vocabulary through reading, root word work, and context clues. A variety of texts will be read, including *Night* and *Lord of the Flies*. In these units, students will learn how to give an informative speech, diving into the research process, and write a persuasive essay, including textual evidence to support their ideas. Reading comprehension and critical thinking skills are also emphasized in this course as the students prepare for the MCA III test. Students will review figurative language, imagery, allegory, and symbolism during this time.

Introduction to Literature 1463

Prerequisite: Completion of Composition 2 1411

Grades: 12

Credit: .75

Length: Semester

College in the Schools Central Lakes College: Transfer Curriculum Goal 6 Humanities & Fine Arts and Goal 7 Human Diversity 3credits.

Introduction to literature is a survey course of great, creative literature, specifically prose, drama, and poetry. In addition to developing personal responses to the selected works in the course, students will become adept at discussing and analyzing literature and will develop fluency in literary concepts (plot, point of view, characterization, setting, symbolism, theme, tone, figurative language, stream-of-consciousness, Realism, *et. al.*). For students wishing to continue study in poetry, drama, American, or world literatures, this course is a necessary starting point. Students who wish to expand their reading experience, develop a deeper appreciation for creative literature, and learn techniques for literary interpretation will also benefit greatly from this course.

Public Speaking 1430

Prerequisite: Accuplacer Reading Test score of 237+ (or) ACT Reading 21+

Completion of 11th grade English with a C or better

Grades: 12

Credit: .75

Length: Semester

College in the Schools Central Lakes College: Transfer Curriculum Goal 1 Communications 3credits.

BRIDGES Multicultural & Spanish Liason Career Academy

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 research/development; message and argument construction; audience and occasion analysis, critical thinking and evaluation; outlining and structure; and delivery and presentation skills.



FAMILY and CONSUMER SCIENCES

Child and Human Development-new offering 2020-2021

Prerequisite: none

Grades: 9, 10, 11, 12

Credit: .5

Length: Fall Semester

BRIDGES Human Services Career Academy course

Tech Prep college credit available, see page 5

- Study of human development-birth to death
- Explore careers related to child and human development throughout the lifespan: early childhood, elementary education, secondary education, post-secondary education, geriatric education, etc.
- Observation of children
- Exploration and application of child and human development related research
- Knowledge of physical, intellectual, emotional and social development

Early Childhood Education-new offering 2021-2021

Prerequisite: Child and Human Development

Grades: 10, 11, 12

Credit: .5

Length: Spring Semester

BRIDGES Human Services Career Academy course

Tech Prep college credit available, see page 5

- Research child related careers and occupations such as education, child psychology, child life specialists, child-related medical fields & businesses, and humans/social services
- Plan and develop lessons and activities for children
- Exploration and application of child related research
- Leadership development, occupational development skills, and service learning

Introduction to Education-new offering 2021-2021

Prerequisite: Child and Human Development

Grades: 10, 11, 12

Credit: .5

Length: Semester

- Explore the education, teaching and training career pathway: the teaching profession, philosophy of education, the learner and the learning process, planning instruction, learning environment, assessment and instruction strategies

Fashion & Apparel (offered in 2020-2021)

Prerequisite: none

Grades: 9, 10, 11, 12

Credit: .5

Length: Semester

Art requirement credit

- Application of the principles and elements of design
- Explore all of the careers available in the fabric, apparel and design pathway

- Exposure to a variety of equipment, tools, and supplies for fashion, textiles and apparel construction, alterations and repair
- Clothing construction and design

Housing & Interior Design (offered in 2021-2022)

Prerequisite: none

Grades: 9, 10, 11, 12

Credit: .5

Length: Semester

STEM requirement credit

- Elements, principles of art and design related to housing
- Scale drawings and wall elevations
- Selection and arrangements of furniture
- Accessories

Introduction to Culinary Arts- new offering 2020-2021

Prerequisite: none

Grades: 9, 10, 11, 12

Credit: .5

Length: Semester

- Introduction to food industry standards
- Experiential learning through food preparation and tasting
- Management of culinary tools and equipment
- Application of safety and sanitation skills

Culinary Arts 1

Prerequisite: Introduction to Culinary Arts

Grades: 10, 11, 12

Credit: .5

Length: Semester

- Meal planning and preparation
- Advanced cooking techniques- knife skills, plating and sauces
- ProStart 1
- ServSafe Food Handler Certification

Culinary Arts 2- new offering 2020-2021

Prerequisite: Culinary Arts 1 or ProStart 1

Grades: 11, 12

Credit: .5

Length: Semester

- Meal planning and preparation
- Advanced cooking techniques- knife skills, plating and sauces
- ProStart 2
- ServSafe Food Handler Certification



Fine Arts

These courses fulfill the one credit required in Art for Graduation.

It may be possible for students to take Band and Choir during the same class period.

CONCERT CHOIR

Grades: 9

Credit: 1.0

Length: Year

Art requirement 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

Prerequisite: Audition

Grades: 9-12

Credit: 1.0

Length: Year

Art requirement credit

Symphonic Band is open to students in grades 9-12 who have continued band throughout junior high. One credit is earned for a full year of satisfactory participation. Students in Symphonic Band will continue their learning of musical fundamentals. Students will work as a group to achieve success, as well as have the opportunity to achieve success with solo work. The Symphonic Band performs at three concerts a year, as well as performing at athletic events as part of the Pep Band. Members are required to attend 2 lessons per quarter, and are encouraged to participate in Region and State Solo and Ensemble contests.

OR

WIND SYMPHONY 1408

Prerequisite: Accuplacer Reading Test score of 237+

Grades: 11 or 12

Credit: .75

Length: Year

College in the Schools Central Lakes College: Transfer

Curriculum Goal 6: Humanities and Fine Arts 1 credit.

This course will intensify the study of the concepts of rehearsal and performance.

A CAPPELLA CHOIR

Prerequisite: Audition

Grades: High School

Credit: 1.0

Length: Year

Art requirement credit

A Cappella Choir is offered to students in high school 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/Holiday, Winter, Spring, and at Commencement as well as working collectively with the Chamber Singers on special events (i.e. Variety Show, Musical, etc.). 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.

CHAMBER SINGERS

Entrance is by Audition in the spring of the previous year

Grades: High School

Credit: 1.0

Length: All year

Art requirement credit

Chamber Singers is a select group of 16 to 20 students who are also enrolled in A Cappella Choir. The chamber singers perform in three concerts as well as the special events, section and state contests, and at many social and community gathering.



Mathematics

GEOMETRY CONCEPTS

Prerequisite: Algebra

Grades: 9

Credit: 1.0

Length: Year

Not a NCAA approved math course

This course is a focus on 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 Concepts is fundamental to many other areas of study and proceeds at a slower pace than Geometry.

OR

GEOMETRY

Prerequisite: Algebra

Grades: 9

Credit: 1.0

Length: Year

This course is a focus on 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.

TRANSITIONAL ALGEBRA

Prerequisite: Geometry

Grades: 10-12

Credit: 1.0

Length: Year

Not a NCAA approved math course

This course reviews linear algebra and introduces exponential and quadratic functions.

ALGEBRA 2 CONCEPTS

Prerequisite: Transitional

Grades: 10-12

Credit: 1.0

Length: Year

This course proceeds at a slower pace than Algebra 2 and is recommended for students who do not plan to take college algebra. Algebra 2 Concepts reviews applications and systems of linear equations, but also covers methods for solving quadratic, absolute value, and exponential functions. Trigonometry, geometry, probability and data analysis are reviewed.

ALGEBRA 2

Prerequisite: Accelerated Geometry OR Transitional Algebra

Grades: 10-12

Credit: 1.0

Length: Year

This course reviews applications and systems of linear equations. Students will be introduced to methods for graphing and solving non-linear functions, such as: quadratic, cubic, absolute value, exponential, radical and logarithmic functions. Trigonometry, geometry, probability and data analysis are reviewed. This course will prepare students for college algebra.

Introduction to College Algebra 1520

Prerequisite:

Accuplacer Math Test score of 265+ (or) ACT math score of 20+ (or) MCA of 1158+

Accuplacer Reading Test score of 237+ Completion of Algebra 2, or equivalent, with a "C" or better.

Grades: 11 or 12

Credit: .75

Length: Fall Semester

College in the Schools Central Lakes College: Transfer Curriculum Goal Elective 3 credits.

This course will intensify the study of concepts first seen in Algebra 2, as well as introduce topics that will be covered in College Algebra. A basic understanding of solving equations and using function notation will be expected, so that students can investigate solving systems of equations in three variables, systems of non-linear equations, polynomial equations, and basic exponential and logarithmic equations. Additionally, function operations and graphing function transformations will be introduced and explored.

OR

Algebra 3 A

Prerequisite: Completion of Algebra 2 with a "C" or better

Grades: 11 or 12

Credit: .75

Length: Fall Semester

Students enrolled in Algebra 3A are not required to meet the CIS admission standards for Introduction to College Algebra 1520.

College Algebra 1470

Prerequisite: Completion of Introduction to College Algebra 1520 with a "C" or better

Grades: 11 or 12

Credit: .75

Length: Spring Semester

College in the Schools Central Lakes College: Transfer Curriculum Goal 4 Math/Logical Reasoning 3 credits.

This is a college-level math course that covers topics such as functions and graphs, inverse functions, linear functions and equations, quadratic functions and equations, polynomial functions, rational functions, radical functions, exponential functions, systems of equations and inequalities, and problem solving. A graphing approach will be used in this course and therefore the use of a graphing calculator will be highly emphasized.

OR

Algebra 3 B

Prerequisite: Completion of Algebra 3 A with a "C" or better

Grades: 11 or 12

Credit: .75

Length: Spring Semester

Students enrolled in Algebra 3B are not required to meet the CIS admission standards for College Algebra 1470.

College Pre-Calculus 1472

Prerequisite: Completion of College Algebra 1470 with a "C" or better

Grades: 12

Credit: 1.25

Length: Fall Semester

College in the Schools Central Lakes College: Transfer Curriculum Goal Elective 5 credits.

STEM requirement credit

This course is intended to provide the essential mathematical background needed in calculus. Topics include equation solving, functions (polynomial, radical, rational, exponential, logarithmic, trigonometric, and inverse trig), identities, applications, and parametric/polar graphing. The student should have a cursory understanding of functions and graphs, equations and inequalities, and polynomial, rational, inverse, exponential and logarithmic functions, problem solving, and use of a graphing calculator.

College Calculus 1477

Prerequisite: Completion of College Pre-Calculus 1472 with a "C" or better

Grades: 12

Credit: 1.25

Length: Spring Semester

College in the Schools Central Lakes College: Transfer Curriculum Goal Elective 5 credits.

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 a sum and as related to anti-differentiation via the Fundamental Theorem of Calculus. Applications to maximum, minimum and related rates.

Independent Study Math

Prerequisite: Teacher and High School Office approval

Grades: 9-12

Credit: .5

Length: Spring Semester

Independent Study courses may be used by students needing to recover math credits or students needing additional instruction in math that do not meet prerequisites for upper level math courses. Courses are computer based and are assigned by a math teacher based on the individual student's level of readiness.

Math department's "typical" course sequence.
 Students may get teacher approval for an alternate course.

Grade 9	Grade 10	Grade 11	Grade 12
Geometry	Algebra 2	Introduction to College Algebra & College Algebra	Pre-Calculus & Calculus
Geometry	Transitional Algebra	Algebra 2	Introduction to College Algebra & College Algebra
Geometry Concepts	Transitional Algebra	Algebra 2 Concepts	Math Elective



Physical Education & Health

Physical Education 9

Required

Grades: 9

Credit: .5

Length: Semester

Physical education is a vital part of each student's total educational process and will aid in the development of becoming a fully functional person. This course is designed to promote physical fitness through activity. In addition, all students will understand and be tested/measured in the five components of fitness. The goal is to teach ways to perform activities for fitness for the rest of your life. Physical Education objectives are concerned with the development of interpersonal skills, motor skills, physical fitness, knowledge/understanding of activities, favorable self-image, and creative expression.

Health 9

Required

Grades: 9

Credit: .5

Length: Semester

This semester class is required for graduation. The course is driven by three succinct learning goals; To provide information/research about health facts that will be the basis for your health decisions, to be able to examine your health attitudes and practices, and to compare/contrast how your goals, values, needs and environment may influence your health decisions. The class includes a number of speakers, two field trips, and the practical experience to participate in the Reality Works Real Care Baby Program.

CIS Health Care Occupations

Prerequisite: Accuplacer Reading score of 237+

Student needs to attend some "rotations" at

CRMC before the traditional school day.

Grades: 11 or 12

Credit: .75

Length: Semester

College in the Schools Central Lakes College: Transfer Curriculum Goal Elective 3 credits.

**STEM*

Introduction to Health and Information and Security for 1 credit and Professional Practicum for 2 credits.

This course provides an introduction to multiple professional health careers for individuals interested in exploring health careers. Students will learn about the healthcare industry, why it's growing and what career opportunities are available. The course provides a theoretical and practical foundation for students to explore health professions including personal career assessment, and college curriculum/program design for specific health careers including the educational requirements for specific careers. Students will be required to complete a 3-5 page

research paper for their final. **OR**

Health Care Occupations

Prerequisite: Student needs to attend some "rotations" at CRMC before the traditional school day.

Grades: 11 or 12

Credit: .75

Length: Semester

**STEM*

This is the high school version. College prerequisites do not prevent participation in the course. This course will follow the same format and requirements as the CIS Health Care Occupations course, minus the final research paper.

Racquet Sports- new offering 2020-2021

Prerequisite: PE 9

Grades: 10-12

Credit: .5

Length: Fall Semester

This class is designed for students interested in basic techniques and strategies for sports that utilize rackets or paddles. Examples of these sports include badminton, pickleball, tennis, starball, eclipseball, racquetball, and table tennis. Students will be expected to teach one of the above-mentioned sports to the class. Along with the presentation, they are required to type up how the game is played and its rules.

Outdoor Activities- new offering 2021-2022

Prerequisite: PE 9

Grades: 10-12

Credit: .5

Length: Spring Semester

This class is designed for students interested in basic techniques and strategies for sports that a partner for participation or safety. Examples of these sports include kayaking, golfing, bowling, seasonal (skiing or biking), hiking. Students will be expected to teach one of the above-mentioned sports to the class. Along with the presentation, they are required to type up how the game is played and its rules.

Unified Physical Education-new offering 2020-2021

Prerequisite: PE 9 and application process

Grades: 10-12

Credit: .5

Length: Semester

This course combines students of all abilities to participate in developmentally appropriate activities including lifetime activities, physical fitness, and sport. Students will work together to increase competence and confidence in a variety of physical activities. Through ongoing leadership opportunities, members of this course will be empowered to help create a more inclusive and accepting school environment for all students.

Lifetime Fitness offered 2020-2021

Prerequisite: PE 9

Grades: 10-12

Credit: .5

Length: Spring Semester

This course is designed to promote wellness through regular participation in physical fitness activities. Students will learn rules, skills, safety procedures, and apply principles of training necessary to improve fitness and enjoyment in a variety of individual sports. Students will also be introduced to concepts of personal development in health-related fitness and physical skills: these include cardiovascular fitness, muscular strength and endurance, body composition, and flexibility.

Team Activities- offered 2021-2022

Prerequisite: PE 9

Grades: 10-12

Credit: .5

Length: Fall Semester

This course is designed to promote wellness through regular participation in physical fitness activities, with an outdoor experience. Students will learn rules, skills, safety procedures, and apply principles of training necessary to improve fitness and enjoyment in a variety of team sports. Students will also be introduced to concepts of personal development in health-related fitness and physical skills.



Science

PHYSICAL SCIENCE

REQUIRED COURSE GRADE 9

Credit: 1.0

Length: Year

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 will understand the investigative nature of science, engineering, matter, motion, energy, human interactions with physical and earth systems.

BIOLOGY

REQUIRED COURSE GRADE 10

Credit: 1.0

Length: Year

BRIDGES Natural Resources Career Academy Course

This course is an introduction to biology and living organisms. Topics include biochemistry, cells, mitosis, genetics, DNA, protein synthesis, evolution, bioethics, biodiversity, and ecology. Lab investigations will give students the opportunity to apply the tools, techniques, and methods used by biologists.

NATURAL RESOURCES (formally known as Outdoor Science)

Elective Course Grade 11 or 12

Credit: 1.0

Length: Year

Tech Prep college credit available, see page 5

STEM requirement credit if taken after required 3 science credits

BRIDGES Natural Resources Career Academy Course

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, functions, 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. This course is not NCAA approved.

EXERCISE PHYSIOLOGY

Elective Course Grade 11 or 12

Prerequisite: Biology

Credit: .5

Length: Semester

Not a NCAA approved Science Course.

STEM requirement credit if taken after required 3 science credits

The purpose of this course is to increase the student's knowledge and understanding about human physiology and the adaptations that occur during exercise. Exercise physiology is a branch of physiology that deals with the functioning of the human body during exercise. An understanding of how the body responds to acute and chronic exercise is crucial for the physical educator, athletic trainer, coach, fitness expert, or exercise physiologist. Emphasis is placed on bioenergetics as well as circulatory, respiratory and neuromuscular responses to the physical stress of exercise. Also discussed are the effects of environmental factors and ergogenic aids on athletic performance. The objective of this course is for the student to gain an understanding and working knowledge of how the body responds to exercise so that they may apply this knowledge to their chosen field. This will be an active class and you will be dressing some days as you would for a PE class.

Fundamentals of Chemistry 1414

Prerequisite: Accuplacer Elementary Algebra Test score of 71 and Accuplacer Reading score of 237+

Elective Grades: 11-12

Credit: 1.0

Length: Year

BRIDGES Health Care Career Academy course

College in the Schools Central Lakes College: Transfer Curriculum Goal 3 Natural Sciences 4 credits.

STEM requirement credit if taken after required 3 science credits

Topics of this course include an introduction to stoichiometry, nomenclature, bonding, gas laws, and acids and bases.

OR
CHEMISTRY

Prerequisite: Advanced Algebra

Elective Grades: 11-12

Credit: 1.0

Length: Year

BRIDGES Health Care Career Academy course

STEM requirement credit if taken after required 3 science credits

Students enrolled in Chemistry are not required to meet the CIS admission standards for Chemistry 1414.

Human Biology 1404

Co or Prerequisite: Chemistry

Accuplacer Reading score of 237+

Elective Grades: 11-12

Credit: 1.0

Length: Year

College in the Schools Central Lakes College: Transfer Curriculum Goal 3 Natural Sciences 3 credits.

BRIDGES Health Care Career Academy course

STEM requirement credit if taken after required 3 science credits

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 two-hour lab weekly.

OR

HUMAN BIOLOGY

Co or Prerequisite: Chemistry

Elective Grades: 11-12

Credit: 1.0

Length: Year

BRIDGES Health Care Career Academy course

STEM requirement credit if taken after required 3 science credits

Environmental Biology 1415

Prerequisite: Accuplacer Reading score of 237+

Elective Grades: 11-12

Credit: 1.0

Length: Fall Semester

College in the Schools Central Lakes College: Transfer Curriculum Goal 10 People & the Environment AND Goal 3 Natural Sciences 4 credits.

STEM requirement credit if taken after required 3 science credits

This course takes a holistic approach to current status and future prospects of earth's life support systems emphasizing human impact on the environment. Topics include interrelationships of organisms and their environment, population dynamics, pollution, major ecosystems, examination of causes and possible solutions to major local, national and global environmental problems. This course is a theme course - environment. **OR**

ENVIRONMENTAL BIOLOGY

Elective Grades: 11-12

Credit: 1.0

Length: Fall Semester

STEM requirement credit if taken after required 3 science credits

Students enrolled in Environmental Biology are not required to meet the CIS admission standards for Environmental Biology 1415.

PHYSICS

Elective Grade:12

Credit: 1.0

Length: Year Long

STEM requirement credit if taken after required 3 science credits

Physics covers the physical laws that govern the natural world in which we live, from the smallest particles that make up matter to the structure of the universe. This course includes a laboratory component that is designed to reinforce theoretical concepts with hands-on experiences and physical measurements.



Social Studies

CIVICS

REQUIRED 9th Grade

Credit: .5

Length: One Semester

Civics is the study of our political system by examining the foundations of our country's government and the U.S. Constitution. Students will explore the roles of the different levels and branches of government, citizenship, voting and elections, the legal system, and conclude with a study of foreign affairs and challenges facing our government. This course will emphasize skills such as considering multiple perspectives, analyzing different types of primary and secondary sources, thinking critically and working with tools such as maps, graphs, and charts.

HUMAN GEOGRAPHY

REQUIRED Grade 10

Credit: .5

Offered with: Economics

Length: One Semester

BRIDGES Multicultural & Spanish Liason Career Academy

Students will be immersed in the study of world cultures. This course will begin with learning the basics of thinking geographically and understanding the concepts of population and migration. Students will further explore the topics of folk and popular culture, language, religion, ethnicity, and how political boundaries shape culture. The course will conclude with examining the relationship shared between humans and the environment. Students can expect to be engaged in relevant and meaningful active learning tasks, collaborate with peers, and demonstrate content mastery using various types of assessments in order to make personal connections with the course material.

ECONOMICS

REQUIRED Grade 10

Credit: .5

Length: One Semester

Offered with: Human Geography

Students will learn skills related to economic reasoning, personal finance, fundamental concepts, microeconomic concepts and macroeconomic concepts. An emphasis will be placed on personal and financial goals and the process of exchange of goods.

WORLD HISTORY

REQUIRED 11th Grade or CIS World History

Credit: 1.0

Length: Year

BRIDGES Multicultural & Spanish Liason Career Academy

Students will journey from the time of prehistoric man to the modern world. The following learning strategies will be presented: lecture, video observation/analysis, cooperative activities, map work, primary and secondary documents, photo analysis, projects, reading strategies, quizzes and tests.

WORLD HISTORY 1 HIST 1412

From the Beginning to 1500

Prerequisite: Accuplacer Reading score of 237 or higher

Credit: .75

Length: Fall Semester

College in the Schools Central Lakes College: Transfer Curriculum Goal 5 History/Social Behavioral Sciences & Goal 7 Human Diversity 3 credits.

BRIDGES Multicultural & Spanish Liason Career Academy

This course will cover World History from the beginnings to 1500. It will cover all major cultural, economic, and social. In addition, the course deals extensively with learning how to read, understand, analyze and interpret a variety of both primary and secondary texts- together with maps, graphs, and pictorial materials associated with them. The course will also aim to help students put the knowledge and understanding they are gainin into practice through sharpening their oral and written communication skills.

WORLD HISTORY 2 HIST 1413

1500 to the Present

Prerequisite: Accuplacer Reading score of 237 or higher

Credit: .75

Length: Spring Semester

College in the Schools Central Lakes College: Transfer Curriculum Goal 5 History/Social Behavioral Sciences & Goal 8 Global Perspective 3 credits.

This course will cover World History from 1500 to the present. It will cover all major aspects of World history during that period including: political, diplomatic, intellectual, cultural, economic, and social. In addition, the course deals extensively with learning how to read, understand, analyze and interpret a variety of both primary and secondary texts- together with maps, graphs and pictorial materials associated with them. The course will also aim to help students put the knowledge and understanding they are gaining into practice through sharpening their oral and written communication skills.

CONTEMPORARY U.S. HISTORY

REQUIRED 12th Grade or CIS Social

Credit: 1.0

Length: Year

This course will take you on a journey from the beginnings of WWII to the modern world. You will study the important facets of the time period through a variety of learning methods such as tests, quizzes, map work, pictures, DVDs, Cooperative activities, primary source documents, projects and a variety of reading strategy activities.

US HISTORY TO 1865 HIST 1472

Prerequisite: Accuplacer Reading score of 237 or higher

Elective Grades: 12

Credit: .75

Length: Fall Semester

College in the Schools Central Lakes College: Transfer Curriculum Goal 5 History/Social Behavioral Sciences & Goal 7 Human Diversity 3 credits.

This course will cover US history from the colonial period to the Civil War. It will cover all major aspects of American history during that period including: political, diplomatic, intellectual, cultural, economic and social. In addition, the course deals extensively with learning how to read, understand, analyze and interpret a variety of both primary and secondary texts- together with maps, graphs and pictorial materials associated with them. The course will also aim to help students put the knowledge and understanding they are gaining into practice through sharpening their oral and written communication skills.

US HISTORY SINCE 1865 HIST 1473

Prerequisite: Accuplacer Reading score of 237 or higher

Elective Grades: 12

Credit: .75

Length: Fall Semester

College in the Schools Central Lakes College: Transfer Curriculum Goal 5 History/Social Behavioral Sciences & Goal 7 Human Diversity 3 credits.

This course will survey the history of the American people since Reconstruction. The class topics will include the social, economic and cultural developments of Reconstruction the Gilded Age, Populism and Progressivism, internationalism and imperialism, WWI, the 1920's, the Great Depression, New Deal, WWII, the Holocaust, Cold War, Fair Deal, The Kennedy and Johnson years, the War in Vietnam, the rise of conservatism, Globalization and the 21st Century.

GLOBAL STUDIES 1401-new offering 2020-2021

Prerequisite: Accuplacer Reading score of 237 or higher

Elective Grades: 11-12(non-social credit)

Credit: .75

Length: Semester

College in the Schools Central Lakes College: Transfer Curriculum Goal 5 History/Social Behavioral Sciences & Goal 8 Global Perspective 3 credits.

This course introduces students to the basic concepts, trends, perspectives and interconnections of global society. Through readings, discussions, videos, webcasts and other activities, students examine the interdependence of people around the world and global issues that affect these relationships. It will provide an overview of the history and theoretical approaches that have created a global society through topics such as global politics, human rights, the natural environment, population, disease, gender, information technology, war and peace.



Visual Art

All Art courses can be counted toward the 1 credit art requirement

CREATIVE CRAFTS

Prerequisite: none

Grades: 9-12

Credit: .5

Length: Semester

Art requirement credit

BRIDGES Illustration/Career Academy Course

This class offers a variety of non-traditional art projects. Some of things you will learn and create in this class are your own tessellations, in addition to your own pop-up artwork. You will also get to make recycled art, and collage art. There will also be opportunities to paint in this class as well. This course is ideal for those who have already taken a previous art class and have learned some of the basics concepts about the elements and principles of art.

PAINTING

Prerequisite: none

Grades: 9-12

Credit: .5

Length: Semester

Art requirement credit

BRIDGES Illustration/Career Academy Course

This course focuses on watercolor and acrylic painting techniques. Students will learn how to mix and blend colors. Students will paint portraiture, still-life, landscape, silhouette, as well as other subject matter. A few students will have opportunities to paint murals throughout the school. Color theory, color wheels, monochromatic painting, will also be covered in this class. This studio course is very therapeutic and allows you to express yourself through your art.

3D ART

Prerequisite: none

Grades: 9-12

Credit: .5

Length: Semester

Art requirement credit

BRIDGES Intro to Fine Art Career Academy Course

This course is great for those who like to build things with their hands. The majority of projects made in

this class are made out of clay. Artwork may be functional or nonfunctional. Students will have opportunities to work on the pottery wheel. Students will also learn the three handbuilding techniques for ceramics. Other possible mediums used for this course consist of cardboard, wire, and plaster. This is a fun class for those who like to create and build things.

DRAWING

Prerequisite: none

Grades: 9-12

Credit: .5

Length: Semester

Art requirement credit

BRIDGES Illustration/Career Academy Course

This course focuses on drawing skills. There is an emphasis on the elements and principles of art. Some of the units covered in this class will help you improve your ability to draw from observation, as well as from your imagination. There is a unit on perspective, in addition to a unit on figure drawing. Composition and craftsmanship will be additional components of focus. This class is perfect for those who want to enhance their drawing ability which can be a useful life-long skill.

FINE ART

Prerequisite: none

Grades: 9-12

Credit: .5

Length: Semester

Art requirement credit

BRIDGES Intro to Fine Art Career Academy Course

This course offers beginning art students a chance to work with a variety of mediums. Students will have a chance to work with watercolor, acrylic paint, woodburning, glass etching, clay, and charcoal. This course offers versatility for those that appreciate a variety of tools, mediums, and techniques. This class is focused on becoming a more well-rounded artist, a "Jack-of-all trades".

WORLD LANGUAGE



Spanish 1

Prerequisite: A grade of C or better in English

Grades: 10, 11, 12

Credit: 1.0

Length: Year

BRIDGES Human Services Career Academy course

BRIDGES Multicultural & Spanish Liason Career Academy

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 2

Prerequisite: Spanish 1

Grades: 11 or 12

Credit: 1.0

Length: Year

BRIDGES Multicultural & Spanish Liason Career Academy

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.

or

College Spanish 1402 (Beginning Spanish II)

Prerequisite: Spanish 1

Accuplacer Reading Test score of 237 or higher

Grades: 11 or 12

Credit: 1.0

Length: Year

College in the Schools Central Lakes College:

Transfer Curriculum Goal 8 Global Perspective 4 credits.

BRIDGES Multicultural & Spanish Liason Career Academy

This course is a continuation of SPAN 1401. Basic vocabulary groupings will be added (town, travel, social issues, as per text) at a more diverse topic level. Short readings related to Spanish-speaking countries are introduced for pronunciation and comprehension

exercises. Grammar and vocabulary is practiced through writing and oral class participation.

Advanced grammar includes:

preterit, conditional, imperative (commands), present tense subjunctive. Cultural activities are an integral piece of each lesson.

College Spanish 2401 (Intermediate Spanish 1) or Spanish 3

Prerequisite: College Spanish 1402 or 2-3 years of HS Spanish

Grades: 11 or 12

Credit: 1.0

Length: Year

College in the Schools Central Lakes College:

Transfer Curriculum Goal 6 Humanities and Fine

Arts & Goal 8 Global Perspective 4 credits

BRIDGES Multicultural & Spanish Liason Career Academy

This course is a review of the fundamentals in grammar and vocabulary covered in the first year (or years) of Spanish language study, with amplification to more advanced structures and complex language usage. The remaining verb tenses (future, conditional, subjunctives) will be introduced through reading, writing and speaking. Graded level readers are used for pronunciation, comprehension and cultural information, providing topics in art, music, politics and current events. Short essays and conversations complete the language skill practices.

Career Preparation Positions



These positions are available through application only. Teacher approval and the completion of a contract signed by teacher and student are required.

High School Classroom Aide

Elective Grades 11-12

Credit: none

Length: Semester

Teacher approval required.

The following are duties the high school classroom aide may be assigned: helping with students who need individual tutoring, correcting papers, keeping a daily journal, writing a short research paper relating to the classroom subject which they are helping in, taking class attendance and others as assigned.

Elementary Mentor

Elective Grades 11-12

Credit: .25

Length: Semester

Teacher approval required.

Student must be able to provide own transportation. Students will be assigned to work with a teacher at the elementary during one class period five days a week. You will assist the teacher with paper work, tutoring, bulletin boards, etc. There are also written assignments for this course.

Skills Mentor

Elective Grades 11-12

Credit: .25

Length: Semester

Teacher approval required.

Students will be assigned to work with a teacher at the High School during one class period five days a week. You will assist the teacher with tutoring and peer support.

Sports Information and Technology

Elective Grades 11-12

Credit: .5

Length: Semester

Students must have approval from the Activities director.

Students will have the opportunity to work with coaches in football, boy's and girls' basketball and potentially other sports. Students will learn how to operate video equipment and be responsible for filming games, practices, uploading content to the internet or finalizing products for coaches. Students will also be responsible for taking and dealing with the respective sports statistics, using a variety of sports statistic programs and Microsoft or Apple products. This class will have varied meeting schedule with responsibilities during and after the school day. Students will be *required to fill out an application and interview with the coaches.*

Activities Director Aide

Elective Grades 11-12

Credit: .25

Length: Semester

Students must have approval from the Activities Director.

Students will assist in the operation of the school activities. As part of this offering, students will increase and enhance their competencies in the following areas: computer literacy, reference skills, communication skills, promotional activities, information storage and retrieval, organization of materials, critical evaluation of materials and development of basic job skills.

Yearbook

Elective Grades 9-12

Credit: .25

Length: Semester

Students must have approval from the yearbook advisor.

Students will assist in the organization and development of the yearbook. This course is completed on an individual learning plan that requires time outside of the "traditional school day".

Insert BRIDGES academies <here>