

NEW HOLSTEIN HIGH SCHOOL
COURSE DESCRIPTIONS



2018 – 2019
SCHOOL YEAR

District Nondiscrimination Statement

No person shall on the basis of age, race, color, creed, national origin, sex, physical, mental, emotional, learning, or developmental disability, handicapping condition, marital or parental status, ancestry, sexual orientation, arrest record, conviction record, religion, pregnancy, physical condition, membership in the national guard, state defense force or any other reserve component of the military forces of the United States or this state or use or nonuse of lawful products be excluded from participation in, be denied the benefits of, or be subjected to discrimination in any program, activity or employment by the School District of New Holstein as required by Title VI, Title IX, Section 504, and Title II of the ADA.

PURPOSE

This bulletin has been designed to give students an overview of courses offered at New Holstein High School. Both required and elective courses as well as prerequisites are included.

Careful planning after studying this bulletin – with parents and counselors – should enhance the student's chance of planning the best program suited to his/her needs.

GRADUATION REQUIREMENTS

Each student who has met the requirements for a high school diploma shall earn graduation from New Holstein High School. A minimum of 24 credits in grades 9 through 12 is required for graduation. Required courses include:

- **English** – 4 credits
- **Mathematics** – 3 credits
- **Science** – 3 credits
- **Social Studies** – 3 credits
- **Physical Education** – 1.5 credits
- **Health** – .5 credit (requirement is waived if student passed ½ credit equivalent of health in 7th and 8th grade. The class must have been taught by a certified health teacher.)

New Holstein High School

Course Descriptions

Course availability may vary from year to year based on enrollment and other circumstances.

Some courses qualify for college credit (transcribed or articulated) through a two-or four-year college. See a counselor for details.

AGRICULTURE

FOOD SCIENCE

Semester – Grades 9 – 12

Food Science introduces agricultural and food products processing, operations and management. It includes instruction on characteristics and properties of agricultural products, processing and storage techniques, storage and marketing, food safety, and food processing equipment. In addition, this class will do many hands-on activities that involve many different types of foods such as dairy products, meat products, fruit and vegetable processing, and grains processing.

HORTICULTURE

Semester – Grades 9 – 12

This class provides students with the opportunity to work with plants in a greenhouse. Students will learn about careers associated with horticulture, plant care and identification, plant physiology, greenhouse crop production, reproduction of plants, floriculture, and pest identification and control. The class is designed to be hands on with much time devoted to lab work in the greenhouse. Students will also assist in planning, preparing and implementing a spring plant sale.

FARM TO FORK

Semester – Grades 9 – 12

This class is designed to teach students about locally grown food, and food production, crop production (food crops), soils, fertilizers, hydroponics, aquaponics, sustainability and organic food production. There will be multiple opportunities for students to produce food in outdoor lab areas, the school greenhouse, and animal lab.

WILDLIFE & NATURAL RESOURCES

Semester – Grades 9 – 12

A class for the outdoor enthusiast! Some of the most important life skills that students can learn relate to the utilization of our natural resources. This class introduces students to the opportunities that Wisconsin's natural resources make available to us. Students actively learn about a wide range of topics including fishing, forestry, wildlife, aquaculture, safety skills utilized in the outdoors, conservation/sustainability practices and more. This hands-on class will teach students some skills that they will be able to use into their adult lives. Students will also conduct independent projects relative to the theme of this course.

LARGE ANIMAL SCIENCE
Semester – Grades 9 - 12
Transcribed Credit

This course explores the many aspects of food animal production including dairy and beef cattle, sheep, goats, swine and poultry. Students will learn to identify the major breeds and to evaluate conformation of each species. General principles of animal nutrition, housing, health management, reproduction, and marketing will be covered plus specific requirements for each species. Hands-on activities include ration formulation, development of meat animal production plans and design of animal housing. Farm field trips will demonstrate the animal management principles covered. Class presentations by producers, veterinarians, ration advisors and others will increase student awareness of career opportunities in food animal production.

SMALL ANIMAL CARE
Semester – Grades 9 – 12

This course provides students with practical knowledge of pet care and explores career opportunities in the pet industry. Care, management and, where appropriate, training of traditional pets such as cats, dogs, birds, fish, guinea pigs and hamsters and working animals like dogs and exotic animals such as reptiles and amphibians will be addressed. Topics include nutrition, health management, reproductive management, diseases, and safety. Students will be exposed to a wide variety of pet and companion animals in the classroom or on tours and will hear presentations and observe demonstrations by veterinarians, and other animal care workers such as kennel owners, trainers and groomers.

LEADERSHIP
Semester – Grades 10 - 12

This course deals with leadership and group activities for students who like to interact with other people in the school and community. Topics include understanding leadership styles, developing your own leadership style in class, communication skills, leadership activities, different types of etiquette, problem-solving and decision-making skills. Students will also create and refine a resume, receive training for job interviews, and learn how to fill out job applications. Students will have the opportunity to learn about the leadership opportunities within the FFA organization. Students will work on hands-on projects that are school and community oriented.

VETERINARY SCIENCE
Semester – Grades 10 – 12

Prerequisite: Large Animal Science or Small Animal Care

This course deals with the areas of veterinary care and animal technician. Topics include careers and employment opportunities, laws and ethics, administrative duties, client relations, animal housing, veterinary equipment and procedures, medical terminology, animal care and handling techniques, diseases and parasites, methods of treatment and at home health care of animals.

DAIRY SCIENCE (Offered 2018-2019 school year)
(This course is offered in alternate years)
Semester – Grades 9 – 12

This course is designed to cover the dairy industry including goat dairies. We will cover the topics of the dairy industry, nutrition, livestock crop production, diseases, reproduction, milk quality, herd management, marketing, record keeping, and operating a dairy farm on a daily basis.

VISUAL ARTS

INTRODUCTION TO ART
Semester – Grades 9 - 12

This course provides an introduction to the elements of art and the principles of design in both two- and three-dimensional studies. The groundwork for future courses is provided through exploration of a variety of concepts and skill developments as they relate to drawing, painting, pastel, watercolor, design, color and ceramics. Learning to “see” is a major emphasis. Units are presented through historical references to master artists and/or major art movements. Students are required to furnish a few additional materials in addition to the course fee.

DRAWING
Semester – Grades 9 – 12

Prerequisite: Introduction to Art

With a heavy emphasis on drawing, the course will explore fundamental methods of recording ideas and techniques of visualization. With references to master artists and major art movements, line and value will be practiced to enable the student to illustrate and show development of form through the application of the principles of design. Students will also learn the techniques and application of applying color in various art media such as colored charcoal, ink, graphite and more. Students are required to furnish some materials and pay the course fee.

PAINTING
Semester – Grades 9 – 12

Prerequisite: Introduction to Art

Techniques of painting through structured assignments can be later applied to the development of individual needs of visual as well as verbal communication. The students will be taught canvas construction, texture painting, 3D painting, etc. in addition to painting on a variety of raw materials such as wood, metal, plastics and more. The study of traditional and modern art movements will be the inspiration for involvement in form, color and structure of the picture plane. Students are required to furnish their own paint brushes and palettes and pay the course fee.

STAGECRAFT
Full Year – Grades 10 – 12

This course journeys the student through the technical aspects of a play production and facility maintenance. Stagecraft also allows the student an opportunity to use his/her skills in a unique manner. Stagecraft is a hands-on class that provides the behind-the-scene design, scene construction and historical importance of specific productions. Students will be taught the proper use of power tools and safety, impressionistic and expressionistic painting, and concert set up, in addition to the importance of working together. You will be given the opportunity to view high school, college and professional productions in addition to back stage tours, and how careers in theatre can be possible. Class size is limited. Students will need to purchase a stagecraft shirt, and provide their own black pants.

COMPUTER ART GRAPHICS
Semester – Grades 10 – 12
Transcribed Credit

Using the elements and principles of design, students will explore Adobe Illustrator and Adobe Photoshop to discover their commercial and creative graphic capabilities. The major emphasis is on advertising design including layout skills, the use of clip art and manipulated images. Students will incorporate scanned images and computer generated artwork into their design solutions. This course is designed for students with serious interest in computer design as a possible career choice. At the completion of the course each student must present a digital/electronic portfolio of his or her course work. Students will need to provide their own USB in addition to paying a small fee. Students can earn two transcribed credits (Introduction to Beginning Photo Shop) through Moraine Park Technical College.

DIGITAL GRAPHIC DESIGN
Semester – Grades 9 – 12
Transcribed Credit

Prerequisite: Introduction to Art or Computer Art Graphics

Digital Graphic Design will introduce students to the basic formal elements and principles of two-dimensional art through graphic design and the use of Adobe Photoshop and Adobe Illustrator. This course utilizes visual exercises and practical projects to explore visual and creative thinking strategies to develop more effective visual communication. Basic computer skills are recommended. Students can earn three transcribed credits (Digital Graphic Design) through Moraine Park Technical College.

METAL ARTS & GEMOLOGY
Semester – Grades 10 - 12

Prerequisites: Introduction to Art

Through this course, art students are taught basic jewelry-making skills such as filing, soldering, casting, and stone setting in addition to stain glass work, glass cutting, foiling, and glass bending and sculpture. With an emphasis on studio and commercial production, this course is designed to develop higher-level thinking, art-related technology skills, art criticism, art history, and aesthetics. The goal in this course is to create meaningful works of art, as well as to perceive meaning through art. The course fee includes basic metals, glass, stones, and gems; students may incur additional costs based on their choice of materials.

CERAMICS & SCULPTURE (Offered 2018-2019 School Year)

(This course is offered in alternate years)

Semester – Grades 9 - 12

Prerequisite: Introduction to Art

Through the use of clay the students will design, sculpt, and throw clay products that are both functional as well as artistically designed. The principles of design will be learned by allowing the students to plan and communicate their ideas through the renderings of pleasing sculptural and functional pieces of art in clay. The students will learn to manage clay in hand building and wheel throwing as well as its beautification through knowledge of glazing techniques. Learning to use the potter's wheel is a required component of this course. Students are required to pay an art fee for supplies.

MULTI-MEDIA (Offered 2019-2020 School Year)

(This course is offered in alternate years)

Semester – Grades 9 – 12

Prerequisite: Introduction to Art

This course provides exposure through various media forms and styles. The focus will be on the elements and principles of design, in layout projects, graphic design, and dimensional design concepts. Students will be exposed to a wide variety of art concepts, ideas, and techniques through the use of fibers, wax painting, glass fusing, silk batiking, sand sculpture, and more. They will also focus on marketing artwork and the importance of visual presentation. A good sense of design and good craftsmanship abilities are desirable traits for a student considering this course. Students will need to provide their own brushes in addition to an art fee.

BUSINESS AND MARKETING EDUCATION

PROFESSIONAL COMMUNICATIONS

Semester – Grades 9-12

This course covers the communication overview including the communication process, elements of effective communication, and barriers to communication. It familiarizes you with reading, writing, speaking, and listening skills needed for general communication. Professional Communications also familiarizes you with communication skills required in business organizations. These skills equip you with the ability to appear for job interviews, participate in group discussions, and solve workplace problems. You also learn about the use of technology in communication. Your coursework will be online, preparing students for the use of technology in a business setting.

INTRO TO BUSINESS & MARKETING
Semester – Grades 9 - 12

This one-semester course is intended as a practical, hands-on guide to help you understand the skills required to achieve success in modern-day careers in the business, marketing, and finance cluster. Possible business career paths, the scope and impact of marketing on business and society, and the effectiveness of advertising in the field of business will all be covered. Your coursework will be online, preparing students for the use of technology in a business setting.

ACCOUNTING I
Full Year -Grades 10 - 12

This course is designed for students interested in business and the ability to interpret important information. Financial accounting examines accounting concepts, the accounting model, measurement processes, financial statements, financial analysis, the accounting cycle, monetary and fixed assets, inventory, current and long-term liabilities and equity structures of partnerships, proprietorships and corporations. Your coursework will be online, preparing students for the use of technology in accounting in a business setting.

ACCOUNTING II
Full Year – Grades 11 – 12

Prerequisite: Accounting I

This course is aimed at students interested in operating a business and/or holding a leadership position in business where interpreting company financial reports is vital. Accounting II is the study of Managerial Accounting, which continues to emphasize the role of accounting in management decision making. Topics such as Activity Based Costing and Management (ABC & ABM), cost behavior and classification, cost volume profit analysis, short term decision making, budgeting, performance measurement, and cost control are included. Your coursework will be online, preparing students for the use of technology in accounting in a business setting.

SPORTS & ENTERTAINMENT MARKETING
Semester - Grades 11 - 12

Prerequisite: Intro to Business & Marketing

This course covers fundamental concepts in sports, entertainment, and recreation marketing. It also covers essential skills related to advertising, sponsorship, and marketing campaigns. In addition, the course covers crucial workplace skills, such as teamwork and leadership skills. Your coursework will be online, preparing students for the use of technology in accounting in a business setting.

INTRODUCTION TO PERSONAL FINANCE
Semester – Grades 11 - 12

The most relevant class you'll ever take! Students will balance checkbooks, create a budget, buy a car, get married, buy a house and even plan a vacation! As the average household debt continues to rise, proper credit use and wise consumer decisions are emphasized.

ENGLISH

ENGLISH 9
Full Year

English 9 is aligned to the Common Core State Standards. Students will be developing their skills as collaborative, self-directed learners who read and respond to foster a deeper understanding of the human experience. This course will develop students' abilities to make meaningful connections in their learning while using a variety of thinking strategies to analyze, understand, and create text for personal enrichment, inquiry, and problem solving. The second semester of the course will focus on developing students' abilities to collect, analyze, and cite specific evidence to formulate questions, construct arguments, make decisions, and change thinking. Students will also obtain, analyze, and synthesize information from a variety of resources to express information, change perspectives, clarify thinking, and make informed decisions. This class will prepare students for English 10.

ENGLISH 10
Full Year

This course will use prior knowledge from English 9 and prepare students for English 11. English 10 is aligned to the Common Core State Standards. Students will continue to improve their skills as collaborative, self-directed learners who read and respond to foster a deeper understanding of the human experience. Students will be required to make meaningful connections in their learning while using a variety of thinking strategies to analyze, understand, and create text for personal enrichment, inquiry, and problem solving. The second semester of the course will continue to improve students' abilities to collect, analyze, and cite specific evidence to formulate questions, construct arguments, make decisions, and change thinking. Students will also obtain, analyze, and synthesize information from a variety of resources to express information, change perspectives, clarify thinking, and make informed decisions.

ENGLISH 11
Full Year

English 11 is aligned to the Common Core State Standards. Students will be refining their skills as collaborative, self-directed learners who read and respond to foster a deeper understanding of the human experience. This course will continue to improve students' abilities to make meaningful connections in their learning while using a variety of thinking strategies to analyze, understand, and create text for personal enrichment, inquiry, and problem solving. The second semester of the course will focus on refining students' abilities to collect, analyze, and cite specific evidence to formulate questions, construct arguments, make decisions, and change thinking. Students will also obtain, analyze, and synthesize information from a variety of resources to express information, change perspectives, clarify thinking, and make informed decisions. This course will prepare students to be college and career ready by building on prior knowledge gained from English 9 and 10.

AP LITERATURE AND COMPOSITION
Full Year – Grades 11 - 12

Recommendation: A or B in English 10 or 11

The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.

AP LANGUAGE AND COMPOSITION
Full Year – Grades 11 - 12

Recommendation: A or B in English 10 or 11

The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods.

Seniors not taking AP Literature and Composition or AP Language and Composition can choose either of the following fall semester classes in addition to 21st Century Reading and Writing (spring semester). Juniors may take a fall semester writing course as an elective in addition to English 11. Juniors who plan to take an AP English course as a senior may also take the spring semester 21st Century Reading and Writing course as an elective in addition to English 11.

CREATIVE COMPOSITION AND LITERATURE
(Fall Semester)

This semester course will focus on the creative mindset in literary arts. Students will be reading and writing creative literature from multiple genres (short story, poetry, and drama) and from a variety of periods, classical to contemporary. This course will emphasize developing individual voice and creative conventions through the writing of original pieces. The semester will culminate in the compilation of a personal writing portfolio.

NONFICTION LITERATURE AND COMPOSITION
(Fall Semester)

Students taking this semester course will be required to create a research paper, proposals, manuals, letters, and brochures. This course will emphasize format, audience, purpose, and task in writing. Reading and summarizing news articles, reports, and other forms of nonfiction literature will be required. This course will emphasize writing and grammatical skills in preparation for post-secondary aspirations.

21ST CENTURY LITERATURE AND COMPOSITION
(Spring Semester)

This semester course will focus on multi-modal literature that is seminal in the lives of a 21st Century learner. Students will study and research social media networking. This course will incorporate contemporary novel study with regular analyses. Students will demonstrate knowledge of proper ethical and responsible use of social networking when discussing their novel of choice. Research and presentation or discussion of findings in conjunction with technology will be a focus of the course.

FAMILY AND CONSUMER EDUCATION

EATING RIGHT
Semester – Grades 9 – 12

This class concentrates on the introduction of foods that are beneficial to a person's health and well-being. You will discover new foods that you may never have heard of and learn their positive effects on the body as well as how they can be prepared. Areas of exploration include; fruits, vegetables, grains, gluten-free products, vegetarian foods and legumes. Students will also learn how to take an ordinary recipe and make it healthier.

CONSUMER FOODS
Semester – Grades 9 – 12

This foods course emphasizes wise use of one's money and time in making decisions in the selection and preparation of a variety of food and use of kitchen equipment. Areas of study include; safety and sanitation, kitchen basics, small appliance selection, convenience foods, canning, freezing and dehydrating, soups, biscuit and pastry method as well other areas of interest to the student.

FASHION AND PERSONAL DESIGN
Semester – Grades 9 – 12

Students with little or no exposure to using a sewing machine would benefit from this course. Students will select and complete individual projects. Students will also improve in their ability to make personal shopping decisions and in clothing care and selection.

TEEN AND FAMILY RELATIONS
Semester – Grades 9 – 12

Teenagers today face a wide array of struggles not only at school but at home and at the workplace. This course looks at how teens can deal with these problems and understand that they are not alone with these struggles. Other topics include: friendships, dating, sexuality, marriage, problems in marriage, mixed marriages, divorce, and remarriage. A large portion of the class time will be spent in group discussion, individual and cooperative projects, and discussing current family struggles in the news.

INTERIOR DESIGN
Semester – Grades 9 – 12

This course provides the guidelines students need to create the environment for a home by the selection of color, fabric, furniture, and accessories using the elements and principles of design. Students will be doing various home accessories projects and hands-on techniques.

CHILD DEVELOPMENT
Semester – Grades 10 – 12

Child Development takes an in-depth look at conception, pregnancy, birth, and infancy. Infertility, pre-natal problems, birth defects, and birthing methods will be discussed. Also, the physical needs and emotional growth of an infant will be studied. Students will participate in the “Baby Think it Over” simulation so they have an idea of what the demands of having a baby are. A twelve-day nursery school will be set up by the students so they can have hands-on experience with toddlers and preschoolers. Students will create a day-care atmosphere and will create learning activities and nutritious snacks for these young children.

CREATIVE FOODS
Semester – Grades 11 – 12

This course emphasis is on the innovational approach to elegant home or professional cooking preparation of appetizers, yeast breads, cake decorating, pies, candy making, Oriental, Mexican and Italian cooking. Cost analysis and timetables are figured out by the students to determine the feasibility of the product being made. Students will learn to work with a team to accomplish outstanding final projects.

SINGLES LIVING
Semester – Grade 12

This course deals with the development of basic life for living on one's own. This includes making wise decisions through the study of personal relationships, budgeting, housing choices, clothing (selection, care, and simple construction), food choices (selection and preparation), and exploring future career possibilities.

FOREIGN LANGUAGE

SPANISH I
Full Year

This is a beginning Spanish course with emphasis on basic vocabulary, conversation, grammar and culture. The course uses games, songs and presentations to practice and reinforce the language. Students also learn about and celebrate several different holidays and special occasions. Students wishing to travel to another country must complete this course and Spanish II (unless approved by the teacher).

SPANISH II
Full Year

This is a continuation of Spanish I with the introduction of more verb tenses, more vocabulary and more complex grammar. This course builds the four skills of listening, speaking, reading and writing. Students will have more chances to speak and perform in real-life situations. The course uses games, songs and presentations to practice and reinforce the language. Students also learn about and celebrate several different holidays and special occasions. Students wishing to travel to another country must complete this course.

SPANISH III
Full Year

This is an intermediate-level program designed for students who have completed Spanish I and II. This course continues building the four skills of listening, speaking, reading and writing. There is a special emphasis on speaking to prepare students to create with language and to communicate successfully in basic survival (real-life) situations. This course also develops basic reading skills with the introduction of brief works of recognized Spanish authors. The course uses games, songs and presentations to practice and reinforce the language. Students also learn about and celebrate several different holidays and special occasions. These students are eligible for travel to another country.

SPANISH IV
Full Year

This is a continuation of Spanish III, but with a large emphasis on the advanced grammar. Students will also read several literature pieces, murder mysteries, and detective stories. They will learn more advanced grammar and will be encouraged to use all that they have learned through speaking and real-life presentations. They will begin to work toward and prepare for the Advanced Placement exam (to test out of credits in college). These students are eligible for travel to another country.

SPANISH V
Full Year

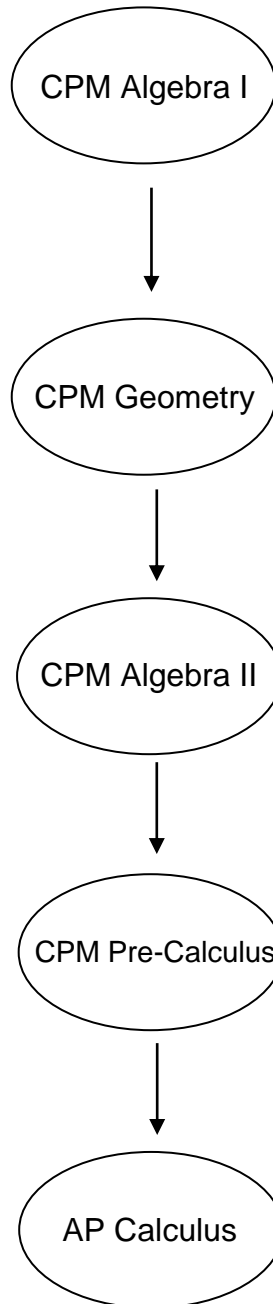
This is a continuation of Spanish IV and its grammar with an emphasis on Spanish literature. Students will refine their speech and pronunciation. Written essay will also be a large part of the class. The writing, listening, and oral proficiency learned in this class are mostly dedicated to preparing for the Advanced Placement exam (to test out of credits in college) and college-level courses. Students will also have the opportunity to learn specialized subjects such as medical and legal terminology in addition to some translating skills for those areas. These students are eligible for travel to another country

HEALTH

HEALTH GradPoint

Health will be offered through an on-line platform to meet the DPI requirement of the .5 Health credit for high school graduation. The class can be taken during summer school or the regular school year.

MATHEMATICS PROGRESSION



MATHEMATICS

Standards for Mathematical Practice

- 1. Make sense of problems and persevere in solving them.**
- 2. Reason abstractly and quantitatively.**
- 3. Construct viable arguments and critique the reasoning of others.**
- 4. Model with mathematics.**
- 5. Use appropriate tools strategically.**
- 6. Attend to precision.**
- 7. Look for and make use of structure.**
- 8. Look for and express regularity in repeated reasoning.**

CPM ALGEBRA I **Full Year**

Adhere to the Standards for Mathematical Practice; Algebra I will explore relationships between quantities, reasoning with equations, linear and exponential relationships, descriptive statistics and equations, quadratic functions, and modeling.

CPM GEOMETRY **Full Year**

Prerequisite: Algebra I

Adhere to the Standards for Mathematical Practice; Geometry will include the topics of congruence, proof, constructions, similarity proof, trigonometry, extensions to three dimensions, connect algebra and geometry through coordinates, circles with and without coordinates, and applications of probability.

CPM ALGEBRA II **Full Year**

(Articulated Credit through Moraine Park Technical College)

Prerequisite: Geometry

CPM Algebra II is the third in a five-year sequence of college preparatory mathematics courses offered by CPM Educational program. The course aims to apply and extend what students have learned in previous mathematics courses by focusing students on looking at multiple representations of functions and relations and on finding connections among the ideas they are studying. Students in Algebra II will continue to use problem solving strategies, questioning, investigating, and explaining in conjunction with their knowledge of the connections among algebra, geometry and functions to analyze problems and formulate solutions. Throughout the course, they will also use these strategies to extend their current knowledge by making new connections.

CPM PRE-CALCULUS **Full Year**

Prerequisite: Algebra II

This course is designed as the fourth course in a five-year sequence of college preparatory mathematics for high school students. In addition to covering all of the key concepts found in traditional trigonometry, pre-calculus, or math analysis courses, it emphasizes several big ideas that form a foundation for calculus and other college mathematics curricula.

The key ideas presented are:

- Transformations of functions
- Periodic functions and their graphs
- Area under a curve as a foundation for integration
- Inverses, exponentials, and logarithmic equations and applications
- Limits to infinity and at a point
- Properties of functions including continuity, increasing vs. decreasing, and concavity
- Average rates of change and instantaneous rates of change as a foundation for derivatives
- Other graphical systems including polar and parametric
- Applications of vectors and trigonometric functions
- Algebraic fluency and simplification techniques
- Modeling using a variety of functions

This course is structured around investigations and problems solving. Students will explore concepts and develop mathematical relationships through observation, application, and both formal and informal proof. Lessons are designed to facilitate teamwork and encourage students to pose conjectures, justify solutions and defend their thinking.

AP CALCULUS **Full Year**

Prerequisite: Trigonometry

The AP Calculus course consists of a full academic year of work in calculus and related topics comparable to a first semester calculus course at a college or university. This course is intended for students who have a thorough knowledge of algebra, geometry and trigonometry. All of these will be used intensively in this course. Students will learn about limits, derivatives and integrals and how to apply them in real-life and work-life situations. This class is intended for students who plan on continuing their education at a college or university in a mathematical, scientific, or business field. By approximately mid-May, the students will be prepared to take the AP Calculus AB test. Taking the AP test is voluntary and a charge is incurred for each attempt.

MUSIC

SYMPHONIC BAND

Full Year – Grades 9 – 12

No audition required

Symphonic Band is a performance ensemble open to any student willing to learn and improve on a band instrument. Emphasis is on the advancement of instrument technique, improving listening skills, music analysis, composition and history. Members of the Symphonic Band should expect to be in attendance at concerts, parades, and home pep band games. The schedule for all obligations is available at the start of the school year. All abilities are welcome and no audition is required. If an interested student doesn't have an instrument, contact NH's band teacher as there are some school instruments available for a minimal rental fee per year.

CONCERT CHOIR

Full Year – Grades 9 – 12

No audition required

Concert Choir is a performance organization designed for beginning- to intermediate-level singers. Emphasis is on developing aural and technical music skills through the study of various musical styles. Students in this group learn both traditional and popular styles of music. All voices are welcome and no audition is required.

SHOW CHOIR

Full Year – Grades 9 – 12

Audition required

Show Choir is an auditioned singing performance group that rehearses during the school day. Students can expect to learn to sing a variety of genres and new repertoire. Along with singing, students will learn to incorporate movement in order to enhance the performances visually. Students perform at the Christmas and Spring concerts, Cabaret, as well as outside of the school day at community events, and other singing engagements.

PHYSICAL EDUCATION

All physical education courses are one semester in length. Students must take a minimum of three semesters of physical education (1.5 credits) over three separate years to fulfill their graduation requirement. Students must take a physical education course during both their freshman and sophomore years. The physical education department offers five elective courses for upper classmen. Students may schedule one or more of these courses during their junior and/or senior year. The goal of the physical education department is to produce students who participate in a variety of activities necessary to maintain a healthy level of physical fitness. Students will develop the knowledge, skills and self-confidence to enjoy physical activity throughout their lifetime.

Activities – Physical Education 9 and 10

Archery, Badminton, Basketball, Cardio Training, Cross Country Skiing, Disc Golf, Fitness Testing, Flag Football, Floor Hockey, Lacrosse, Mountain Biking, Pickleball, Rock Climbing, Snow Shoeing, Speedball, Soccer, Softball, Strength Training, Volleyball

PHYSICAL EDUCATION 9

Semester – Grade 9

Physical Education 9 will develop skills in a variety of individual, dual and team activities. Using the latest fitness assessment equipment, students will be able to evaluate their current fitness level, set goals towards maintenance or improvement, and track their fitness as they progress through the class

PHYSICAL EDUCATION 10

Semester – Grade 10

Physical Education 10 will develop skills in a variety of individual, dual and team activities. Using the latest fitness assessment equipment, students will be able to evaluate their current fitness level, set goals towards maintenance or improvement, and track their fitness as they progress through the class.

RECREATIONAL / NET GAMES

Semester – Grades 11 – 12

This course offers a variety of recreational and net games primarily involving individual and dual play. Students will learn how to apply offensive and defensive strategies, playing courtesies, safety considerations, and terminology used for activities including: Biking, Archery, Golf, Rock Wall, Ropes Course, Badminton, Pickleball, Volleyball, Frisbee Golf, Table Tennis, Bean Bags, Cross Country Skiing, and Snow Shoeing.

WEIGHT TRAINING
Semester – Grades 11 – 12

Weight Training focuses on the total health of the student. Students will be involved in a semester-long strength training program. Students will design their own fitness program after assessing their fitness needs. The students will use a variety of strength training and cardio equipment to improve their overall strength, flexibility, and cardiovascular conditioning. Students will also have the opportunity to participate in a variety of individual, dual, and team activities.

TEAM / STRATEGIC GAMES
Semester – Grades 11 – 12

This course offers a variety of competitive activities that emphasize the development of specific tactics used in team games. Students will learn the fundamental skills, team strategies, and rules used in these activities while working on interpersonal relationships in a cooperative environment. Activities will include: Basketball, Soccer, Lacrosse, Floor Hockey, Flag Football, Volleyball, Team Handball, Speedball, Softball, and Ultimate Frisbee.

OFFICIATING AND GAME MANAGEMENT
Semester – Grades 11 – 12

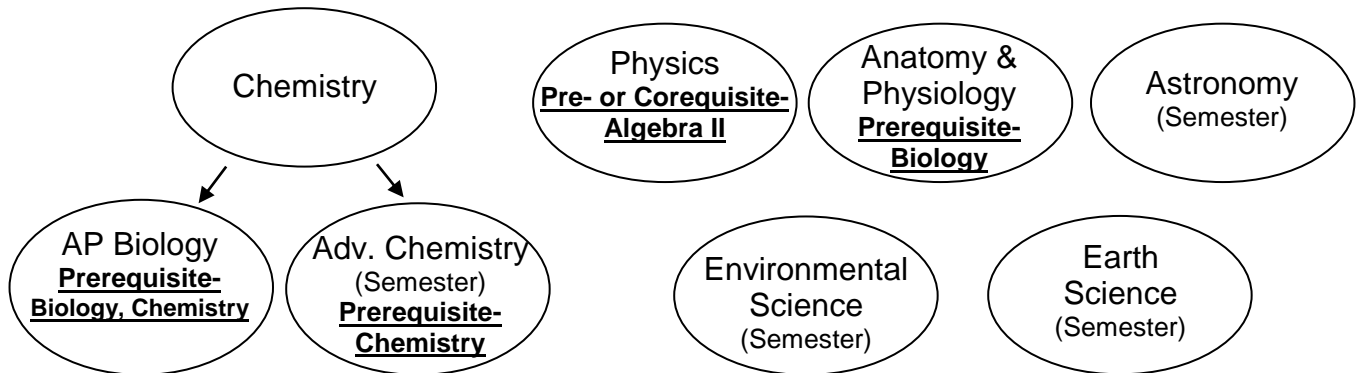
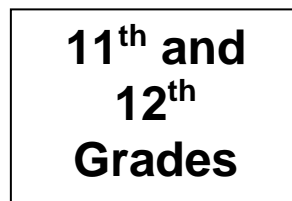
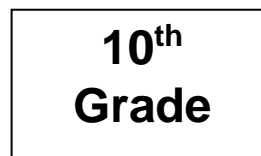
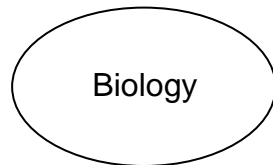
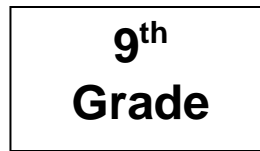
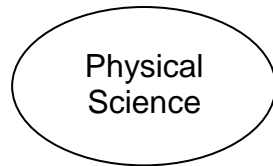
Officiating and Game Management offers students the opportunity to officiate a variety of team sports such as baseball, softball, basketball and volleyball. Students will have the opportunity to become a certified official in a specific sport. They will also become trained in game management, organization and tournament set-up.

ADVANCED TRAINING AND INJURY PREVENTION
Semester – Grades 9 - 12

This course is an advanced physical education course designed for students looking to improve their physical fitness. Students will participate in a vigorous program which includes functional training, strength training, flexibility training and injury prevention. This course will allow students to improve their overall fitness and allow athletes to deal with the rigors of a high school season. This course is for the serious student who is looking for serious training. Dedication and a strong work ethic are required.

SCIENCE CURRICULUM

3 Credits Required



Students who take biology as freshmen can take chemistry their sophomore year and all other science classes their junior and senior years.

SCIENCE

PHYSICAL SCIENCE

Full Year

Freshman science is a one-year course that provides a solid foundation in science by integrating chemistry and physics. This course emphasizes inquiry, critical thinking, and problem-solving skills while providing students with hands-on investigations and experiences with technology.

BIOLOGY

Full Year

Biology is a one-year introductory life science course in which students experience a continuum of activities. Course content includes the nature of science, biochemistry, cells, genetics, classification, and the diversity of life.

CHEMISTRY

Full Year

Prerequisite: Algebra I

This is a one-year course with an emphasis on the structure and reactivity of matter from both a theoretical and experimental standpoint with an inorganic emphasis. The topics include the physical vs. chemical change, atomic structure, ions and compounds, measurements, chemical quantification(moles), chemical equations, stoichiometry, thermodynamics, the Periodic Table, gas laws, reaction rates, molecular geometry, liquids solids and solutions, and acids and bases.

ADVANCED CHEMISTRY

Semester

Prerequisite: Chemistry

This is a semester course investigating advanced chemical concepts on both a theoretical and experimental basis. Topics include solubility rules, acid base titration, equilibrium, organic chemistry, chemical kinetics, oxidation reduction, electrochemistry and qualitative analysis.

PHYSICS
Full Year

Prerequisite: Must have Algebra II either previously or concurrently

This is a one-year course with both a theoretical and experimental emphasis on mechanics, waves, sound and light. The course includes a mathematical approach to such topics as projectile motion, Newton's Laws of Motion, energy, wave properties, and sound. This is a CAPP class; students taking this class may be eligible for five college credits through U.W. – Oshkosh.

AP BIOLOGY
Full Year – Grades 11 – 12

Prerequisites: Biology, Chemistry

AP Biology is a rigorous and demanding course, which is the equivalent of an introductory college biology course. Content will be covered in more depth and greater expectations will be placed on interpretation and analysis of information than previous biology courses. In addition, statistical analysis of data and modeling of concepts will be expected. A significant amount of studying must be completed at home to allow time for discussion, labs, and inquiry during class time. The AP Biology curriculum encompasses four Big Ideas –

- **Big Idea 1: Evolution** – The process of evolution drives the diversity and unity of life.
- **Big Idea 2: Cellular Processes (Energy and Communication)** – Biological systems utilize free energy and molecular building blocks to grow.
- **Big Idea 3: Genetics and Information Transfer** – Living systems store, retrieve, transmit, and respond to information essential to life processes.
- **Big Idea 4: Interactions** – Biological systems interact and these systems and their interactions possess complex properties.

ANATOMY & PHYSIOLOGY
Full Year – Grades 11 – 12

Prerequisites: Biology

This upper-level biology course will include an in-depth study of the human body and how it functions, studying each of the body systems individually and how they contribute to the body as a whole. The medical terminology used with each of these processes will also be discussed. A year-long dissection will also be utilized to reinforce the concepts learned in class.

ENVIRONMENTAL SCIENCE
Semester – Grades 11 – 12

This is a semester course that incorporates the application of knowledge from many disciplines. During the course, students will study the protection of human populations from the effects of harmful environmental factors and the protection of the environment from man's potentially harmful activities.

ASTRONOMY
Semester – Grades 11 – 12

This course will include lectures and laboratories to study of the relationship between the sun, the moon, and the earth. It will also look at the moon, the stars, and the galaxies. It will also talk about the history of astronomy as well as constellations in the night sky.

EARTH SCIENCE
Semester – Grades 11 – 12

Earth Science explores the study of the earth using lecture and laboratories. This class will look at plate tectonics and the resulting effects on the surface of the earth including volcanoes and earthquakes. It will also explore the rocks of the earth and the weathering and erosion of the earth's surface.

SOCIAL STUDIES

SOCIAL STUDIES SURVEY

Full Year – Grade 9

This freshman course will be taught in three parts; a) Geography, b) Economics, and c) Civics. It will have students master basic geographic skills and understand a variety of economic systems and the basics of our own local, state, and federal government. This course will focus on teaching students skills that will be needed in future course work and in the community.

WORLD HISTORY

Full Year – Grade 10

This sophomore course will have students explore the causes and effects of various historical periods and common themes between them. We will use the course curriculum to focus on applying student skills to understanding how past events have and continue to impact our modern world.

U.S. HISTORY

Full Year – Grade 11

This is a two-semester course that is required in the 11th grade. The course begins with the Civil War (approximately 1850) and concludes in the modern era. Chronologically, it explores a variety of primary issues in American history including: territoriality, war, industrialization, foreign policy, and economic development. Students will be asked to participate in a variety of discussion, lecture, and project-based learning opportunities.

AP UNITED STATES HISTORY

Full Year – Grade 11

(This two-semester course takes the place of the 11th grade U.S. History course.)

This Advanced Placement course in American History makes demands on students equivalent to those of an introductory, college-level survey course. Students will be expected to read historical material effectively, learn to think critically, and write persuasively and analytically. It is crucial that students in this AP course learn to evaluate a college-level text, primary sources, as well as a variety of other historical interpretations. Students also must learn to arrive at evaluative conclusions on the basis of the weight of evidence and logic, rather than supposition and bias.

ECONOMICS
Semester – Grade 11 – 12

Economics is a survey course that will explore the branch of social science of the same name. In essence economics is the study of how people deal with scarcity. The people of the world have unlimited wants and needs, however there is a finite amount of resources in the world to meet those unlimited wants and needs. In this course we will use discussion, lecture, assignments, projects, and research to learn and understand economics and the concepts that make up this branch of the social sciences.

SOCIOLOGY (Offered 2018 - 2019 School Year)
(This course is offered in alternate years)
Semester – Grade 11 – 12

Sociology is the scientific study of social structure, or the patterned interaction of people in a social relationship. Basically, sociology is the study of how people interact with each other and with groups. This is an essential part of the human condition, and sociology allows us look more objectively at the society that we live in. Sociology lets us look at different parts of society and how those parts fit together, and also why those parts change. In modern day society we have an extensive and complex social environment; sociology helps us make sense of that complex society. Sociology provides us with the conceptual tools and methodologies for understanding our society. Sociology can help us better understand ourselves and the motivations of others. Throughout the semester we will be using a variety of different activities to further our learning of sociology.

PSYCHOLOGY (Offered 2019 - 2020 School Year)
(This course is offered in alternate years)
Semester – Grades 11 – 12

This course will provide a survey of the foundations of psychology. Class will focus on the history of psychology including how it has evolved up to today. We will cover significant theories and psychologists that have greatly impacted the field of psychology.

POLITICAL SCIENCE (Offered 2019 - 2020 School Year)
(This course is offered in alternate years)
Semester – Grade 11 – 12

This course teaches a general survey of the processes and functions of the American governmental system, and its evolution. The course focuses on the foundational concepts of the American constitutional democracy: its origins, structure and problems. Areas of study include an in-depth discussion of the U.S. Constitution, federalism, civil liberties, interest groups, political parties, campaigns, elections, mass media, Congress, the courts and the presidency.

TECHNICAL EDUCATION

EXPLORING POWERS **Semester – Grades 9 – 12**

This course is designed to teach students forms of power producing machines through hands on learning. This course is designed for students to design, layout, construct, and test their machines. The students use their mechanical ability to construct CO2 dragsters, hydraulic cranes, rockets, mousetrap cars, pneumatic bridges, model airplanes, and wind powered watercrafts. Projects will enhance design and problem-solving skills.

EXPLORING WOODWORKING **Semester – Grades 9 – 12**

Students in this class learn about woods and construction techniques using a variety of tools and machines to design and construct an entry level project. After their first project students will choose their own project according to their abilities. Safe use of woodworking and construction tools is the main emphasis in this class, while quality is a major focus. Projects in the class may include the use of the Laser Engraver.

EXPLORING METALWORKING **Semester – Grades 9 – 12**

Many different jobs for both the male and female population can be obtained by taking classes in this area. The main purpose of this course is to provide the basic skills for a job in the manufacturing and metalworking fields. Welding, machining, blueprint reading, and sheet metal fabrication are the major areas covered in the class. (This course could give you the skills to obtain a high-paying summer job or an apprenticeship in related fields of work.)

INTERMEDIATE WOODS **Semester – Grades 10 – 12**

Prerequisite: Exploring Woodworking

This course is designed to expand on the basic skills taught on the exploring level. In-depth uses of machines and construction techniques are utilized to describe methods and processes in the woodworking industries. Construction techniques and processes will be emphasized through choice projects.

METAL FABRICATION
Semester – Grades 10 – 12
Transcripted Credit

Prerequisite: Exploring Metalworking

This course will consist of metal fabrication in the areas of welding and sheet metal. Welding techniques will be developed through practice in the areas of MIG, arc, and TIG. Blueprint reading and project planning will be developed in the sheet metal and welding areas. Students will learn valuable skills on how to read prints and assemble manufactured products to specifications. Multiple projects are required and additional projects may be made with the instructor's approval.

METAL MACHINING
Semester – Grades 10 – 12

Prerequisite: Exploring Metalworking

This course consists of operations in machining, using both lathes and mills to produce hands on projects. Machining will consist of the six basic machining operations which are grinding, drilling, sawing, turning, milling, and shaping. The student will complete a project by taking it from the raw material stage to the finished product. Field trips may be planned to local tool and die shops or foundries. Lathe and mill procedures will be emphasized. An aluminum pen will be one of the first projects students work on, followed by various other exercises to enhance blueprint reading, and machining skills. Get on the fast track to earning a great wage with a career in machining.

BASIC DRAFTING
Semester – Grades 10 – 12
Transcripted Credit

Blueprint reading and making are the main emphases of Basic Drafting. Currently our students are on the CADD program known as Autodesk Inventor. Within this program students will learn how to create parts, and make working drawings of components. From this point students will work with 3D Printers to model their own designs. The skills learned in this class will be useful in engineering, architecture, manufacturing, welding, and will be valuable in many other courses and careers.

EXPLORING ELECTRONICS

Semester – Grades 10 – 12

This course consists of a study of Ohms Law, basic DC circuits, basic AC circuits, and limited solid state devices and ICs. Projects are constructed using the Arduino prototyping platform. Students will learn controls to basic lights, motors, and a variety of sensors that can ultimately be used to create much more advanced electronic systems. The Arduino platform is an open source plc that can replace nearly any electronic device. This course will open students' eyes to the possibilities in the field of electronics.

HOME MAINTENANCE

Semester – Grades 11 – 12

This course will give you the basic understanding you need to know about owning a home and more. We cover drywall patching, basic electrical, drywall, taping and mudding, painting, soldering copper pipe, basic plumbing and some building projects. This class will jump start your life when it's time to live on your own.

ENGINE OPERATION AND PERFORMANCE

Semester - Grades 10 - 12

Engine Operation and Performance is designed to acquaint the student with small internal combustion engines and relate power producing devices. Emphasis is placed on the theory and construction of two and four cycle engines. The general maintenance of the engine (such as lubrication, fuels, ignition, simple tune-ups, and troubleshooting) is covered. Students are required to disassemble and reassemble an engine that will start and run correctly. Students are allowed to bring in small engines and work on these after working on the school's engine.

ENGINEERING AND FABRICATION

Semester - Grades 11 - 12

Students will:

- **Design or improve on a design of a High Mileage Vehicle capable of achieving outstanding fuel mileage**
- Draw a blueprint of project
- Find sponsorship for their project
- Fabricate a working project
 - Cut materials
 - Weld, rivet, glue, or fasten the project together
 - Bend and form to desired shape
 - Finish project: paint, coating or specialized metal
 - Test and evaluate potential areas of improvement
- Present the final project with detailed report and specifications

ARCHITECTURAL DRAWING (Offered 2018 - 2019 School Year)

(This course is offered in alternate years)

Semester – Grades 11 – 12

This course will provide basic instruction in residential and some commercial building planning. Footings and foundations, sill and floor construction, roof design, room planning, and stair construction are discussed. The student will draw floor plans and elevations for homes. Blueprint reading and computer aided drafting are emphasized.

ADVANCED WOOD TECHNICS (Offered 2019-2020 School Year)

(This course is offered in alternate years)

Semester – Grades 11 - 12

Prerequisites: Exploring Woodworking and Intermediate Woods

Advanced Woods Technics class is a course that allows students, using all the skills developed in prior courses, to design, plan and build a project or projects of their choice. The project is limited only by the student's ability, motivation and/or cost.

MISCELLANEOUS

INDEPENDENT STUDY

Semester – Grades 11 - 12

This program is for students who want to learn more about a subject area that is not presently available in the curriculum. This may take the form of the student doing advance work in a particular academic area or refining skills in a curricular area of his/her interest

EDUCATIONAL AIDE

Semester – Grades 11 – 12

Any junior or senior may work as an educational aide, tutor, or assistant in a classroom. There is a great need for students to assist in these areas. You may be an educational aide for no more than two terms in one school year. The credits which you earn count as elective credits. See your counselor for further information.

ALTERNATIVE PHYSICAL EDUCATION WAIVER

Alternative Physical Education Waiver

The School District of New Holstein Board of Education will waive .5 credit of Physical Education for students who meet the following criterion:

- Completed .5 credit of physical education
- Completed New Holstein School District Physical Education Waiver Form
- Completed a minimum of 90 hours in a New Holstein High School sponsored WIAA varsity sport
- Completed a sport season activity log
- Completed a two- to four- page season reflection paper
- Enroll in a .5 credit math, science, social studies or English course beyond the graduation requirements

Students interested in this option should contact Mr. Zoelle by March 1.

WORK-BASED LEARNING

Grades 11 – 12

This course is designed for students interested in gaining knowledge in a career area of their choice. The Work-Based Learning (WBL) curriculum is a partnership between the students, his/her parents, the school, and a work site in the area. This experience can fit one of two areas:

1. Close alignment with a future career goal
2. Opportunity to gain workplace experiences that are transferrable to any career field

The student receives school credit and valuable work experience: juniors will receive ½ credit per semester and seniors will receive up to one credit per semester. Because the school endorses the student's work ethic and the worksite provides a mentor and experience, the student will complete employment documents including a resume, demonstrate good attendance, and maintain good academic standing. **To be considered, the student must see the WBL coordinator before junior or before senior year to be eligible for the program. The student will also need to fill out a WBL Application and other related paperwork to be considered.**

Students wishing to participate in WBL must meet the following criteria:

1. Students are currently in good academic standing (passing all courses, targeting a 2.0 overall GPA. Other factors will be considered if the GPA is below this benchmark)
2. Students have no truancy on record.
3. Students have completed credit requirements to accord them junior or senior standing and are on track to graduate per credit requirements.
4. Students have exhibited positive behavior that contributes to the success of the high school community.

Participating students will have the opportunity (based on the field they are working in, hours worked and other factors) to earn various state certifications for successfully completing the curriculum. These are valuable resume-builders.

Applications must be received by the WBL coordinator BY March 3rd at 4:00 p.m. to be considered for placement in fall of 2018. Applications received after this date will be considered for a start date during second semester UNLESS the student is already working in the job they wish to work for the experience at the time of applying.

WORK-BASED LEARNING OPPORTUNITIES

YOUTH APPRENTICESHIP PROGRAM

Grades 11 - 12

Students entering their junior or senior year who have some specific ideas on a career path are encouraged to apply for a Youth Apprenticeship. Programs last one to two years. The student attends classes at New Holstein High School for five to six hours each school day, attends a paid work experience for 15-20 hours each week and attends a class elsewhere relevant to the work experience (Lakeshore Tech, Moraine Park, Fox Valley Tech, etc.). The program requires 450 work hours to be completed in a nine- to twelve-month time period, involves an application and interview process overseen by Lakeshore Technical College, with the student receiving a state-recognized certification from the program upon completion. Program orientations take place between January 1st and February 15th with applications due by the end of February. Stop in the guidance office for more information.

SCHOOL-TO-WORK / CO-OP

Grades 11 – 12

The Cooperative Education Program is designed in partnership with business, industry and labor representatives along with school and work-based learning opportunities. Students learn technical tasks and employability skills validated by business and industry representatives in cooperation with the high school. The student attends school part of the day and works part of the day. Effort is made to match the student with an area of career interest. The student also takes a high school course related to the field of work. The student may be eligible for Wisconsin Skills Standards or Employability Skills certificates. Eligibility will be determined by the interests of the student in agreement with the WBL coordinator and employer. The curriculum requires between 360 and 450 work hours to be completed in a nine- to twelve-month time period.

WORK EXPERIENCE / SUPERVISED AGRICULTURAL EXPERIENCE

Grades 11 – 12

The goal of the work experience / supervised agricultural experience (SAE) is for students to learn employability skills in a work setting. Its intent is to recognize student's mastery of these skills valued by employers to help students explore career interests, based on 21st century skills or local employability skills. The curriculum requires a minimum of 180 hours worked per semester, which earns one-half credit toward high school graduation.

EARLY COLLEGE CREDITS PROGRAM (ECCP)

Grades 11 - 12

ECCP is a program which is available to juniors and seniors who are in "good standing." Good standing is defined as, 1) being on track academically for graduation, 2) having no history of truancy, and 3) having no history of discipline referrals. This program allows students to take courses at a university which are not available in high schools.

Students participate in ECCP for different reasons. Some students want to get their feet wet and try a class in a field they might be considering, while others are very focused on their goals and take courses within a program they hope to pursue upon graduation. Students receive both college and high school credit for courses paid for by the school district and the college grades figure into the high school GPA. In addition, students will be billed for courses in which they receive a grade of D or F.

There are state deadlines for applying for ECCP. For fall participation a "Notice of Intent" must be completed by March 1. October 1 is the deadline for spring semester participation. ECCP is dependent upon school board approval. See your counselor for more information on this program.

START COLLEGE NOW
Grades 11 – 12

This program is similar to the ECCP program. The difference is that Start College Now allows students to take courses at a technical college which are not available in high schools. Start College NOW is a program which is available to juniors and seniors who are in “good standing.” Good standing is defined as, 1) being on track academically for graduation, 2) having no history of truancy, and 3) having no history of discipline referrals.

Students participate in Start College NOW for different reasons. Some students want to get their feet wet and try a class in a field they might be considering, while others are very focused on their goals and take courses within a program they hope to pursue upon graduation. Students receive both technical college and high school credit for courses paid for by the school district and the college grades figure into the high school GPA. In addition, students will be billed for courses in which they receive a grade of D or F.

There are state deadlines for applying for Start College NOW. For fall participation a “Notice of Intent” must be completed by March 1. October 1 is the deadline for spring semester participation. Start College NOW is dependent upon school board approval. See your counselor for more information on this program.