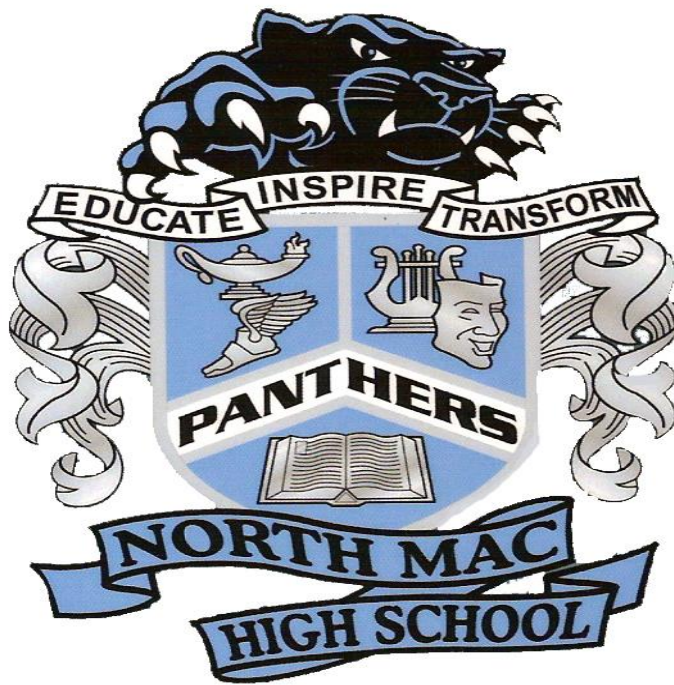


North Mac High School



Course Descriptions

2019 – 2020

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NORTH MAC HIGH SCHOOL

2019 - 2020 REGISTRATION

General Instructions

Course descriptions are provided for your informational purposes and to assist students and parents registering for classes at North Mac High School. Questions concerning any course, prerequisite for a course, or course sequence, can be answered by the instructor or School Counselor. Questions concerning regulations, policies, or laws governing curriculum should be directed to the administration.

PREREQUISITES: Some classes have prerequisites. Prerequisites are courses or grade requirements needed before a student may register for a particular class. Such requirements are in place to prevent a student from taking a class for which he or she is not prepared and, consequently, would not have the background or experience to draw upon in order to pass the course.

REQUIREMENTS FOR GRADUATION

Graduation Requirements for North Mac Class of 2020 and Class of 2021 – 22 credits

- 4 years of English (2 courses focused in writing)
- 3 years of Math (Algebra I and Geometry)
- 3 years of Science (Biology I)
- 3 years of Social Studies (Social Studies-Civics, US History, semester of American Government)
- Semester of Consumer Education
- Semester of Health
- Semester of Driver's Education
- 4 years of Physical Education
- Electives to equal 22 credits

Graduation Requirements for North Mac Class of 2022 and Class of 2023 – 26 credits

- 4 years of English (2 courses focused in writing)
- 3 years of Math (Algebra I and Geometry)
- 3 years of Science (Biology I)
- 3 years of Social Studies (Social Studies-Civics, US History, semester of American Government)
- Semester of Consumer Education
- Semester of Health
- Semesterr of Driver's Education
- 4 years of Physical Education
- Electives to equal 26 credits

Honors Curriculum

The objective of the honors curriculum is to promote the rigorous study of certain courses. Students in the honors courses should be willing (and will be required) to do college-prep level work. Courses included in the Honors Curriculum are:

College Prep English I
College Prep English II
College Prep English III
English 101 / English 102
Introduction to Literature
College Prep Algebra I
College Prep Geometry
College Prep Algebra II
Pre-Calculus
AP Statistics
AP Calculus

Biology II
Human Anatomy / Physiology
Chemistry II
Microbiology
Genetics
Physics
Honors Band
Spanish III
Spanish IV
French III
French IV

RECOMMENDED FOUR-YEAR PROGRAM FOR NORTH MAC STUDENTS

FRESHMEN YEAR

1. English I / CP English I
2. Algebra I / CP Algebra or Geometry / CP Geometry
3. Biology I
4. Social Studies-Civics or Driver's Ed / Health
5. P.E.
6. Elective
7. Elective

JUNIOR YEAR

1. English III / CP English III
2. Algebra II / CP Algebra II or Pre-Calculus
3. Chemistry I / Physics / Micro / Genetics
4. U. S. History
5. P.E.
6. Elective
7. Elective

CACC is also an option for Juniors and Seniors and allows students to earn 3 credits.

SOPHOMORE YEAR

1. English II / CP English II
2. Geometry / CP Geometry or Algebra II / CP Algebra II
3. Biology II / Earth & Space / Chemistry I
4. Social Studies-Civics or Driver Ed / Health
5. P.E.
6. Elective
7. Elective

SENIOR YEAR

1. English IV or English 101 / English 102
2. Math (highly recommended for college)
3. Science (highly recommended for college)
4. American Government / Consumer Education
5. PE
6. Elective
7. Elective

CACC is also an option for Juniors and Seniors and allows students to earn 3 credits.

Lincoln Land Community College Dual Credit Courses

The objective of a dual credit course is to provide students with a college level course during high school without the expense of the college credit. Students are required to do college-level work and will receive transferrable college credit. Dual credit courses offered at North Mac High School may include:

- English 101 (3 credit hours)
- English 102 (3 credit hours)
- Introduction to Literature (3 credit hours)
- Horticulture Science (3 credit hours)
- Spanish III (8 credit hours)
- Spanish IV (4 credit hours)
- Computer Applications (3 credit hours)

Lincoln Land Community College (Dual credit program)

Goals:

- To provide educational opportunities for high school students in the Lincoln Land Community College (LLCC) district;
- To enhance the current high school curriculum;
- To address students' unique interests, abilities, and attitudes;
- To prepare students for work and/or further educational endeavors; and
- To improve the transition of students from high school to college.

Guidelines:

- Courses are college-level courses and are of the same high quality, cover the same content, and have the same rigor as courses offered at the college's main or regional center campuses.
- Courses can be taken for college and high school credit.
- Students must enroll as LLCC students.
- Students will be subject to all LLCC placement, enrollment, grading, records, policies, and procedures.
- All instructors of dual credit courses must meet Illinois Community College Board (ICCB) and LLCC qualifications.
- Dual credit courses use LLCC textbooks and outlines (unless otherwise approved by an LLCC Dean).
- Students must meet all LLCC placement policies. Students enrolling in a math or composition course must have an ACT Math or English composite score of 22 or higher, or students must achieve the appropriate LLCC placement score.
- Students who withdraw and receive (W) from their dual credit classes, should be aware there may be a negative impact on future financial aid.
- All dual credit courses are offered under the approval and supervision of Lincoln Land Community College. At times, changes may be made or courses discontinued based on the needs or recommendation of the college or the various departments.

Advanced Placement Program Courses

The Advanced Placement Program has enabled millions of students to take college-level courses and earn college credit, advanced placement, or both, while still in high school. AP Exams are given each year in May. Students who earn a qualifying score on an AP Exam are typically eligible to receive college credit and/or placement into advanced courses in college. Every aspect of AP course and exam development is the result of collaboration between AP teachers and college faculty. They work together to develop AP courses and exams, set scoring standards, and score the exams. College faculty review every AP teacher's course syllabus. Advance Placement courses offered at North Mac High School may include:

- AP Calculus
- AP Statistics

AGRICULTURE

Agriculture Business

Grade: 10, 11, 12

Prerequisite: Counselor Recommendation

Credit: ½ per semester

This course will develop students' understanding of the agricultural industry relating to the United States and World marketplace. Instructional units include: business ownership types, planning and organizing the agribusiness, financing the agribusiness, keeping and using records in an agribusiness, operating the agribusiness, and developing employability skills. Student skills will be enhanced in math, reading comprehension, and writing through agribusiness applications. Improving computer and workplace skills will be a focus. Other business topics taught will include: managing/budgeting money, balancing a checkbook, bank accounts, credit, insurance, taxes, creating a resume and cover letter, applying for jobs, interview skills, and careers within the business/agribusiness industry.

Animal Science

Grade: 10, 11, 12

Prerequisite: None

Credit: 1 per year

This course will develop students' understanding of the small and companion animal industry, livestock and equine science, animal anatomy and physiology, animal ethics and welfare issues, animal health, veterinary medicine, veterinary office practices, and animal services to humans. Career exploration will focus on veterinarian, veterinary lab technician, office lab assistant, small animal production, research lab assistant, and animal nutrition lab technician. *This course can count as a Science elective credit.*

Food Science Technology

Grade: 10, 11, 12

Prerequisite: Biology I

Credit: ½ per semester

This course provides learning experiences in food science and safety which allow students to apply scientific knowledge and processes to practices used in the development and preservation of food products. Issues of food science and safety are examined from a scientific and technological perspective. Students critically analyze information to evaluate and draw conclusions on the appropriate use of technology to implement food science and safety practices. Units of instruction include: principles of food preservation, food processing, biochemistry of foods, and food selection and consumer health. Careers to be examined include meat inspector, quality control technician, food processor, and sanitation supervisor. Students will use scientific and technological information about food science and safety as a part of developing career plans and personal viewpoints on societal issues concerning the development and preservation of food products. Improving computer and workplace skills will be a focus.

Horticulture Science(HRT 102 – LLCC Dual Credit)

Grade: 11, 12

Prerequisite: None

Credit: 1 per year

This course focuses on the greenhouse management, floral design and related segments for the horticulture industry. Many units of study include floriculture plant identification, greenhouse structures, basic plant anatomy, and the culture of greenhouse crops. Also included are care and handling of cut flowers, principles of art applied to floral design, and the mechanics of floral design. Agribusiness units will be introduced in merchandising, advertising, sales, and operating a retail floral business. *This course can count as a Science elective credit.*

Introduction to the Agriculture Industry

Grade: 9, 10, 11, 12

Prerequisite: None

Credit: 1 per year

This course provides an opportunity for students to learn how the agricultural industry is organized; its major components; and the types of job opportunities in the agricultural field. Basic concepts in animal science, horticulture science, agronomy, equine science, dairy products and industry, electricity and renewable energy will be discussed. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

BUSINESS

Accounting I

Prerequisite: None

Grade: 11, 12

Credit: 1 per year

This course presents the double-entry bookkeeping system. Students will learn the full accounting cycle, and in doing so, analyze and record business transactions, use journals and ledgers in order to prepare financial statements. Students will complete a final project.

Accounting II

Prerequisite: Accounting I

Grade: 12

Credit: 1 per year

A continuation of Accounting I, Accounting II is an advanced automated course emphasizing accounting practices for a merchandising business as a corporation with adjustments and valuation. Additional accounting procedures are also incorporated. Students will complete a final project.

Advertisement & Document Design

Prerequisite: Counselor Recommendation

Grade: 9, 10, 11, 12

Credit: 1 per year

Students will have the responsibility of designing the yearbook. Professional publication design will be the main focus of the course. Students will gain entry-level and intermediate skills to produce professional documents incorporating the basic elements of layout and design. In preparation for designing the yearbook, students will produce documents such as flyers, brochures, and newsletters for both personal and business use. Skills learned throughout the course will contribute to the production and sale of the school yearbook.

Basic Business

Prerequisite: None

Grade: 9, 10, 11, 12

Credit: 1 per year

This course will give the student a thorough background in the basic record keeping skills used in business. The skills presented in this course will also serve as a sound background for employment and basic life skills. Students must take this class the first semester in order to participate in the business simulation that is presented in the second semester.

MEAN JEANS MANUFACTURING CO. is a modified, flow-of-work, business community simulation based on the operations of a small business community that includes 16 different businesses. All 16 businesses interact by doing business with each other and with businesses and individuals outside the model business community.

Computer Applications (Dual Credit)

Prerequisite: None

Grade: 11, 12

Credit: 1 per year

The focus of this course will be the extensive study of Microsoft Word, Microsoft Excel, Microsoft Access, and Microsoft Power Point. This course includes the study of commands, formulas, and basic functions of spreadsheets as well as an introduction to database management concepts and the various methods of organizing data. This hands-on course will provide numerous activities and applications for students enhancing learning and providing them with tools for personal, school, and career projects.

Computer Applications is a transferable dual credit course which will fulfill the General Education technology course requirement in most Illinois community colleges.

Computer Programming

Prerequisite: None

Grade: 11, 12

Credit: ½ per semester

Students will be introduced to the fundamental skills of problem solving and programming. The class provides an introduction to writing instructions that direct the activity of computers. The course uses the programming language, Visual Basic. Visual Basic 2012 streamlines the development of applications for Windows based computers. Concepts studied are structured programming, debugging, and the use of numeric and string functions.

Consumer Education**Grade: 12****Prerequisite: Counselor recommendation for any student not a senior****Credit: ½ per semester**

Successful completion of Consumer Education is a graduation requirement in the state of Illinois. Required topics include:

- understanding the basic concepts of financial literacy, including consumer debt and installment purchasing (including credit scoring, managing credit debt, and completing a loan application);
- budgeting, savings and investing;
- banking (including balancing a checkbook, opening a deposit account, and the use of interest rates);
- understanding simple contracts;
- state and federal income taxes;
- personal insurance policies;
- the comparison of prices;
- higher education student loans;
- identity-theft security;
- homeownership (including the basic process of obtaining a mortgage and the concepts of fixed and adjustable rate mortgages, subprime loans, and predatory lending); and,
- understanding the roles of consumers interacting with agriculture, business, labor unions and government in formulating and achieving the goals of the mixed free enterprise system.

Keyboarding and Document Formatting**Grade: 9, 10, 11, 12****Prerequisite: None****Credit: 1 per year**

Students will learn to operate the letter, figure, symbol, and service keys by touch; to type words, sentences, and paragraphs with speed, accuracy, and good technique; and to type from printed, handwritten, and corrected copy. Students will learn to format personal and business letters, outlines, reports, and tables. Microsoft Office Suite will be utilized. A final project must be completed to receive credit.

Law and Marketing**Grade: 9, 10, 11, 12****Prerequisite: None****Credit: 1 per year**

This course will spend first semester focusing on **Personal and Business Law**. Topics include contracts, the U.S. legal system (crimes, torts, law enforcement, and the court system), bailment, employee-employer relationships, buying and selling goods, real and personal property, wills and estate planning, product liability and warranties, debtor and creditor rights, and bankruptcy. The course content will enable the students to be knowledgeable about law as it affects citizens.

Second semester of Marketing and Law will focus on **Sports and Entertainment Marketing**. This course covers the foundations and functions of marketing. It approaches marketing as an integrated set of tasks (functions), built on a solid set of foundations (economics, finance, career preparation). Students will learn about the various functions of marketing as it relates to sports and entertainment, but also discover how each function fits with the others. The projects and activities cover a wide variety of teams and artists. Topics covered will include college and amateur sports, professional sports, marketing products and services through sports, public images, sports marketing, entertainment industry, marketing entertainment, recreation marketing, marketing plans, and legal issues for sports and entertainment.

Video Production**Grade: 11, 12****Prerequisite: None****Credit: ½ per semester**

This course introduces students to the creation and manipulation of digital videos using the video editing software program called Adobe Premiere Elements 13.0. Sophisticated and professional video presentations will be developed throughout the semester. The course is designed to provide hands-on experience in editing and filming. By the end of the semester, students will be familiar with video editing and will be able to create short videos utilizing basic capture and editing techniques. Students will experience real world work conditions such as meeting deadlines and working cooperatively in teams to prepare, record, and present video projects. Students will also be required to film various school events as well as film outside of school.

Web Design and Programming**Grade: 9, 10, 11, 12****Prerequisite: None****Credit: 1 per year**

The purpose of this class is to learn the elements of design as they apply to web pages. As students' progress they will learn various software programs as web design tools. Students will design and maintain web pages using HTML and CSS for projects and explore the use of web design while learning various aspects of the Internet.

CAPITAL AREA CAREER CENTER (CACC)

Capital Area Career Center (CACC)

Grade: 11, 12

Prerequisite: Application, acceptance and on-track for graduation

Credit: 3 per year

Acceptance Criteria: Good Attendance, Positive Discipline Record, Demonstrated Commitment to Career Studies, High Level of Personal and Academic Responsibility

Capital Area Career Center gives students the opportunity to pursue career options, enhance employability skills, transition into employment, and prepare for lifelong learning. College credit is available in many of the programs. Students interested in attending must complete an application during registration sophomore year.

CAREER PROGRAMS

Agriculture and Industrial Mechanics

CACC

Agricultural and Industrial mechanics is a program for students who have an interest in servicing and repairing engines and diagnosing mechanical failure. The curriculum covers basic repairs and service on engines, power trains, and electrical and hydraulic systems. Students will study safety, welding, power machinery, electrical principals, AG structures, and careers in agricultural mechanics. Students also have the opportunity to earn dual credit with community colleges, N.C.C.E.R and O.S.H.A. National certifications.

Automotive Technology/Servicing

CACC

In this program you will learn the eight major areas of ASE certification. Courses include: Introduction to Autos, Brakes, Steering/Suspension, Heating/Air Conditioning, Electrical, Engine Performance, Engine Rebuilding and Drive Trains. Theory of the automobile systems is learned in the classroom and then students participate in applied shop activities. Many students continue on with their education to technical schools or colleges, in pursuit of a certificate or degree, others will go directly into the automotive field.

Building Trades

CACC

Building Trades offers a promising career for the individual who has an interest in or an aptitude for working with tools and construction materials. This class requires the development of basic principles and practice related to construction work. There are two areas of study in Building Trades. One is the learning of the skills or the "how" of the trade on the job. The second area of study is the interpretation of drawings and layouts necessary to the trade. During their first year, students will gain experience in the skills of rough framing, roofing, siding, insulation, drywall, wood finishing, painting, electrical wiring and plumbing.

CISCO Networking

CACC

In this program students develop skills in hardware assembly and set up, including installation of hard drives, interface cards, network cards, monitors, keyboards, modems, and other common pieces of hardware found on most computers. Systems' operating software will be installed and debugged to insure proper system operation. Application software will be loaded on personal computer systems and configured to users' needs and other applications. In addition, students will configure and administer their own network using a variety of hardware and operating systems. Students that successfully complete this course may be eligible for CISCO certification. Students may also be eligible for community college dual credit.

Collision Repair Technology

CACC

In the Collision Repair Technology program, you will learn the skills required for entry-level positions as an auto body technician. Students will learn automotive construction, disassembly, reassembly, metal straightening, painting, and refinishing processes. Students will also engage in welding, electrical, and professional detailing experiences in the Collision Repair program.

Cosmetology**CACC**

Students will learn the skills and accumulate the hours necessary to become a state licensed cosmetologist. Areas of learning include: trimming, shaping, curling, blow dry, styling of hair, shampooing, scalp and hair conditioning, coloring/tinting, bleaching, permanent waving, and other related areas of the cosmetology arts.

Culinary Arts**CACC**

This is a program for training in quantity cooking, baking, and the operation of a commercial kitchen. Areas of learning include preparation of vegetables, fruits, salads, and dressing, sandwiches, appetizers, hors d'oeuvres, desserts, breakfast items, stocks, soups, and sauces, meats, poultry, fish, cakes, fillings, and frostings, pastries, and fillings, breads, and cookies. Students also learn to use commercial kitchen equipment and utensils, sanitation, safety, table service, menu planning, and food service math. Students have the opportunity to achieve nationally recognized certification in the culinary field while at CACC. Students can also earn college dual credit in the Culinary Arts program

Early Childhood Care and Education**CACC**

Early Childhood Care and Education is a program designed to provide experience for those students who wish to prepare for careers in the field of Early Childhood Education, Elementary Education, or Special education. Students learn to plan, organize, and teach various activities to preschool age children. Activity areas include physical education, music, art, literature, nutrition, language, interest centers, and math/science awareness. Writing weekly schedules prepares students to develop curriculum skills, lesson plan, planning special events, and preparing instructional materials. Students study the development and behavioral characteristics of preschoolers examine developmentally appropriate practice; and learn positive guidance skills. Life skills of goal setting, decision making, and problem solving are developed in the early Childhood program. Students of this program are also eligible to earn local community college credit.

Emergency Medical Services Training**CACC**

The Emergency Medical technician – Basic EMT-B) course focuses on pre-hospital emergency medical care and is an excellent program for students considering many of the health professions. The CACC EMS program works closely within the framework of the EMS System and is under the guidance of Memorial Medical Center's EMS System. Students successfully completing this demanding course will have their names submitted to the IL Dept. of Public Health through the EMS System office to challenge the state licensing exam. Students must be in their last year of high school and shall reach age 18 within one year of completing this course to enter the CACC EMS program.

Fire Science**CACC**

Fire science is a skill- level course designed to provide students with skills needed to prevent and extinguish fires, maintain and repair fire service equipment, provide basic emergency medical treatment, and prepare public service information concerning fires and hazardous materials. Instruction will include the physical characteristics of fire as well as a general understanding of safety practices, fire behavior, and extinguishing principles. Students will learn rescue and appropriate use of various water supply systems along with how to use ropes and tie knots. Students will also learn basic emergency medical techniques and practices, which will include medical legal considerations, terminology, airway management, patient assessment/transportation, and emergency treatment.

Graphic Arts**CACC**

Graphic arts is a program that will introduce and prepare students for employment and or college in the Graphic Communications field. Students will be introduced to the various processes required in producing graphic visuals for print and web based media. Graphic arts students will study introduction to Macintosh computers and its applications, design and layout, typography, color theory, offset printing, digital photography, and screen printing. Students of the Graphic arts program also have the opportunity to earn local community college dual credit and the Art Institute of Chicago, Schaumburg.

HVAC and Electrical System Technology**CACC**

The HVAC and Electrical System Technology program introduces students to the principles and practices employed in the installation, maintenance, and repair of basic air conditioning, heating systems, and basic electrical systems. Instruction is provided in safety precautions related to electricity, heating units, rotating machinery, refrigerants, and the use of power tools. Instruction includes basic electrical concepts, circuits, transformers, motors and motor controls, and circuit protection devices. Emphasis is also placed on basic refrigeration principles, gas laws, pressure, fluidics, heat and heat transfer, refrigerants, compressors, lubrication systems, electrical theory and circuit design and operation.

Law Enforcement**CACC**

Law enforcement is a program that prepares students who are pursuing a career in the fields related to criminal justice or law enforcement. This program is designed to equip students with a solid foundation of constitutional law, law enforcement techniques and procedures, ethics, and interpersonal communications skills currently used in the profession. Student activities in the Law enforcement program include physical / strength training, forensics, crime scene investigation, crime scene/accident re-enactment, and mock trials of the current judicial system. Students will also have the opportunity to take part in job shadows and visit police agencies during field trip opportunities in the duration of this course.

Nursing Assistant**CACC**

Nursing Assistant is an excellent program for students considering any health career. Students successfully completing first year will have their names submitted to the Dept. of Public Health for inclusion in their registry of individuals completing basic nursing aide training. Students who desire to work in long term care (i.e. nursing homes) must also pass a criminal background check and the Nurse Aide Competency Evaluation Program exam, thereby earning the designation of Certified Nurse Aide (CNA).

Orientation to Health Occupations**CACC**

Orientation to Health Occupations is a year-long course providing an overview of concepts related to the medical field, such as nursing, therapy, vision and dental care, administrative services, and lab technology. The main purpose of this course is to assist students in further development of their self-concept and in matching personal abilities and interest to a tentative career choice. Topics of discussion will be, but not limited to, related to healthcare industry, including ethics and laws, safety and infection control, CPR/First Aid, anatomy and physiology, medical terminology, and diseases. In addition, the course will include basic reading, math, and science as it related to the industry. The suggested course content should provide in-depth information into health occupations careers and trends, the occupational and educational opportunities and the educational, physical, emotional, and attitudinal requirements.

Photography**CACC**

Students in the Photography class develop real world skills through the operation of specialized equipment and projects. Entry level jobs are available in photography and media production throughout the market. Areas of instruction include communication ethics, safety, history, 35mm, medium and large format photography, and both digital and film editing and development. Multiple methods of studio lighting and electronic lighting effects will be mastered throughout the duration of this class. In addition, the photography class is articulated with the Illinois Institute of Art, and graduates of our program can obtain 9 hours of free credit upon acceptance into the school.

Radio/Television Digital Media**CACC**

Radio and Television Broadcasting is a program designed to qualify students for entry level employment in the radio and television broadcasting, electronic journalism, audio-visual media, internet webcasting, and related fields. Students operate WQNA 88.3 FM radio station, the Center's TV production studio, and the on-line Illinois Student Network. Students can earn industry certification in Radio, TV, and media software application including audio and video production. Students of this program may also earn dual credit at the area's community college.

Welding**CACC**

Welding is a program in which students learn: gas metal-arc welding, micro-wire pipe welding, shielded metal-arc welding, oxyacetylene welding, cutting and brazing, flux-colored wire welding, welding resistance, and spot welding. Students will also learn how to use plasma cutting equipment, principles of manufacturing/ production, blue print reading, basic welding symbols, linear measurement, math as it relates to the welding field, and safety. Upon completion of the welding program, students have the opportunity to earn dual credit with the local community college.

FINE ARTS

Adobe Photo Shop

Prerequisite: None

Grade: 11, 12

Credit: ½ per semester

This course will explore beginning skills and knowledge in the use of Adobe Photo Shop Elements 9. Projects relate to creating advertisements, photo editing, photo manipulation and designing the yearbook cover. Discussions about possible career opportunities in graphic design will be integrated into the class.

Advanced Studio

Prerequisite: successfully passed 4 semesters of art

Grade: 11, 12

Credit: ½ per semester

This class will provide serious and motivated art students instruction in silk screen process, pottery wheel and glass fusing. Students will be allowed time to develop their own interests in more depth with the medium of their choice. This class is an opportunity for students considering a field in art to increase the breadth of their portfolio.

Art I

Prerequisite: None

Grade: 9, 10, 11, 12

Credit: ½ per semester

Students will complete a variety of projects in various mediums (clay, chalk, oil pastels, drawing pencil, acrylic paint and color pencil). Specific assignments include coiled clay vase, still life drawings, calligraphy, linoleum block printing, landscape acrylic painting, art history, and drawing in two point perspective.

Art II

Prerequisite: Art I

Grade: 9, 10, 11, 12

Credit: ½ per semester

Students will complete a variety of projects in various mediums. Specific projects include pen and ink drawing, scratch art, slab clay teapot, art history, acrylic painting, still life drawings and Styrofoam sculptures.

Art III

Prerequisite: Art I and Art II

Grade: 10, 11, 12

Credit: ½ per semester

Students will complete projects using the following mediums: acrylic paint, watercolor, chalk, oil pastels and clay. Assignments include oil pastel self-portrait, clay whistles, Op art, and still life drawings. This class will also do a project on various styles of art.

Art IV

Prerequisite: Art I, Art II and Art III

Grade: 10, 11, 12

Credit: ½ per semester

This course, again, uses a variety of materials and mediums. Students will do projects that include researching an artist, a clay and drawing realism project, still life drawings, a collage focusing on rhythm, and one student choice project.

Ceramics

Prerequisite: one semester of art

Grade: 9, 10, 11, 12

Credit: ½ per semester

This course will explore the clay techniques of coiling, slab building, and potter's wheel. Projects will focus on complex open ended problems, conceptual art, and functional art. Students will also explore various texture techniques including slip trailing and combing. The entire semester will be strictly spent working with clay.

Drawing & Painting

Prerequisite: two semesters of art

Grade: 10, 11, 12

Credit: ½ per semester

This class is designed for the student who wants to strictly work on drawing techniques with various mediums and learning various painting techniques. Watercolor, acrylic, and oil paint will be used. Paintings will include landscapes, floral, abstract, and portraits. Students will explore impressionism, expressionism, and abstract expressionism style within their painting assignments. Drawings will include realistic drawings, fantasy drawings, and still life.

Independent Art**Grade: 11, 12****Prerequisite: must have completed 4 semesters of art (not Photoshop), had at least an B+ average in the 4 semesters of art and permission of the instructor**
Credit: ½ per semester

This course is designed for the self-motivated serious art student. Projects will be designed collaboratively with the student and teacher. Four to five projects will need to be completed per quarter or a total of eight to ten projects for the semester.

Band**Grade: 9, 10, 11, 12****Prerequisites: Previous instrument study and / or consent of director**
Credit: 1 per year

Band is open to any student 9-12 who has an interest in learning instrumental music study. If the student has not been involved with the music department prior to joining, a meeting with the director is required. The instrumental music program is designed to provide students with a variety of musical experiences in four (4) specific areas: marching band, concert band, pep band, and jazz band for students to gain a more thorough understanding and appreciation for all types of music; to achieve competency, artistry, and technical facility through the study and playing of a musical instrument; to instill a sense of pride and accomplishment in a team effort; to promote and encourage a sense of responsibility and self-discipline, and to encourage individual creativity through a more realistic understanding of the arts.

Marching Band performs throughout the year, with the primary focus during September and October. It performs in such events as football games, parades, and other related invitational events. Students are taught basic marching fundamentals including visual and audio commands, posture, physical, and mental coordination, teamwork, and the development of a positive self-image.

Concert band is a year-long (2 semester) organization, performing primarily from November through May, and specializes in traditional as well as contemporary band literature. Emphasis is placed on technical, expressive, and artistic selections. The band presents 2-3 major concerts per year in addition to commencement. When able, the band may perform outside the school environment such as board approved trips. Selected advanced students may elect to perform in various other activities, which include, but are not limited to: solo/ensemble contest, IMEA festivals, and honor band.

Pep Band utilizes all members of the concert band and performs at selected boys' and girls' basketball games.

Jazz Band is designed to teach students the fundamentals of jazz literature and the correlation with standard classical music. Jazz curriculum will be included within concert band. Rehearsals will be held outside of school if necessary. Students may choose to study a secondary instrument during Jazz band.

Chorus**Grade: 9, 10, 11, 12****Prerequisite: None**
Credit: 1 per year

Chorus is a full year performing group, and is open to anyone in high school who has interest in singing. It is also beneficial that the student has some prior music/vocal experience, although not mandatory. A student should be able to demonstrate an ability to read music, or have the desire to learn. Students will gain knowledge in the fundamentals of singing as a vocal ensemble, vocal techniques, proper breathing, diction, sight singing, ear training, rhythm and note reading. The chorus will perform at 2-3 major concerts per year, in addition to commencement. Attendance is a requirement for these performances. The chorus also performs at community events. As a group or individually, students may attend performances or workshops intended to build vocal skills and music appreciation. Individual students may elect to participate in other music events, such as IHSA solo/ensemble contest and IMEA festivals.

Honors Band (Honors)**Prerequisites: Previous instrument study****AND consent of director****Grade: 11, 12****Credit: 1 per year**

High School Honors Band is based on and structured around the *Illinois Fine Arts Standards* and the *National Standards for Music Education*. Students taking this course are provided with a balanced, comprehensive study of music through the marching, pep, jazz, and concert band program.

All band course requirements are implemented, in addition to an honors curriculum. This course **requires** both ensemble and solo activities, which are designed to develop elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying historically significant styles of literature, and integration of other applicable disciplines. Experiences include improvising, playing by ear, sight-reading, and researching music. Students develop the ability to understand and convey composers' intent in the performance of music.

A number of public performances will serve as a culmination of daily rehearsal and musical goals. Students are **required** to participate in performance opportunities outside of the school day that support and extend learning within the classroom.

This ensemble is open to students in grades 11 and 12, or as recommended by the band director. In order for a student to be accepted into the honors course, they must have written consent obtained at a meeting with the band director. This class will meet one period a day for the entire school year.

FOREIGN LANGUAGE

French I

Grade: 9, 10, 11, 12

Prerequisite: None

Credit: 1 per year

Conversational and practical French are presented with basic grammar and vocabulary. Conversational and pronunciation skills are emphasized. Aspects of French culture, including school systems, pop-culture, and everyday life are presented. Cultural focus remains particularly on Paris and other large cities.

French II

Grade: 10, 11, 12

Prerequisite: French I

Credit: 1 per year

Fundamentals of grammar, vocabulary, and conversation are continued with greater emphasis on fluency. Advanced grammar instruction is included along with broadened vocabulary. Conversational and reading skills are emphasized. Some topics in French history will be addressed, along with greater detail of French geography and culture. Cultural focus broadens to include French-speaking nations of the world and individual French provinces.

French III (Honors)

Grade: 11, 12

Prerequisite: French I and French II

Credit: 1 per year

Conversational and practical French are perfected while exploring the history of France from the prehistoric cave paintings of Lascaux through the Middle Ages, the French Monarchy, and the Revolution and Democracy. This course will be presented almost entirely in the target language.

French IV (Honors)

Grade: 12

Prerequisite: French I, French II and French III

Credit: 1 per year

Practical French is practiced while exploring French literature and poetry from authors such as Victor Hugo, Alexandre Dumas, Gaston Leroux, and Sempé Goscinnny. The primary focus will be on reading for comprehension and discussion. This course will be presented almost entirely in the target language.

Spanish I

Grade: 9, 10, 11, 12

Prerequisite: None

Credit: 1 per year

Instruction includes written and oral work for the beginner in areas of grammar, reading, writing, culture, speaking, and listening comprehension. Conversations and partner work are included in the course.

Spanish II

Grade: 10, 11, 12

Prerequisite: Spanish I

Credit: 1 per year

Instruction includes written and oral work for the novice in the areas of reading, writing, grammar, culture, vocabulary, speaking, and listening comprehension. Conversations and partner work are included in the course.

Spanish III (Spanish 101 – LLCC dual credit) (Honors)

Grade: 11,12

Prerequisites: Spanish I, Spanish II

Credit: 1 per year

This course provides training in the basic conversational skills including listening to the spoken language with understanding, utilizing correct pronunciation and intonation and analyzing actual speech patterns necessary for effective communication. Once the aural-oral skills have been firmly established, the basic language structure is presented through reading and composition exercises that focus on the Hispanic world.

Spanish IV (Spanish 102 – LLCC dual credit) (Honors)

Grade: 12

Prerequisites: Spanish I, Spanish II and Spanish III

Credit: 1 per year

This course, taught in Spanish, allows students to continue development of basic structures, grammar and cultural awareness. Students are exposed to the Hispanic world through a selection of documentaries and cultural readings. The language concepts are recycled with a focus on expression of ideas. Readings are drawn from classical literature and cultural excerpts.

FRESHMAN / SOPHOMORE SEQUENCE

Driver Education

Grade: 9, 10, 11, 12

Prerequisite:

Credit: ½ per semester

Must successfully complete the previous two semesters of school work prior to eligibility for enrollment

Students must receive a passing grade in at least eight (8) courses during the previous two (2) semesters prior to enrolling in a driver education course.

Students who are absent (excused or unexcused) over the allotted days will have to retake the class and must repay the fee.

The fee for Driver Education will be paid each time a student takes the class. The fee must be paid before the student is allowed to drive with the instructor. **NO EXCEPTIONS!**

Open to: All residents of North Mac #34 who are acquiring or hold a current valid driver's license during the term of the course and who are at least 15 years old but have not reached 21 years of age.

****To obtain a passing grade in the classroom portion students will need to receive a letter grade of "C" or better.**

Included in this course are guidelines set by the Illinois Secretary of State for acquiring a driving permit and obtaining an Illinois State Driver's License. This class also provides a variety of learning experiences for the purpose of helping students learn to use motor vehicles safely and efficiently.

The course includes classroom and lab experiences. The course is 9 weeks long and students receive a study hall for the other 9 weeks of the semester.

Health

Grade: 9, 10

Prerequisite: None

Credit: ½ per semester

The course will focus on teaching students concepts relating to health promotion, disease prevention, and strategies for living a healthy lifestyle. Students will analyze the influence of family, peers, culture, media, and technology on health behaviors. Students will also demonstrate the ability to access valid health information and evaluate products and services. Students will learn the importance of interpersonal communication skills and decision making skills as it relates to improved overall health and a reduction in health risks. They will participate in a two day training over the basic concepts of how to perform compressions only CPR and how to correctly use an AED.

ENGLISH

College Prep English I (Honors)

Prerequisite: Grade of B or better in Honors Reading in 8th grade

Grade: 9

Credit: 1 per year

Students will experience a challenging academic environment that expands their reading, writing and communication skills through various effective strategies including classroom discussion and debate, collaborative group work, and writing to learn. Students will encounter various genres of literature and several styles of writing, with a specific emphasis placed on nonfiction texts as well as evidence based writing. Students will be expected to integrate technology into several project based learning assignments. These projects and the course as a whole will allow students to showcase their communication and critical thinking skills. Honor students will read independent novels in addition to the text taught in the classroom. They will achieve a high level of proficiency in academic writing, grammar, and vocabulary. Formal rhetoric and argument will be covered with a required research project, including cited sources and MLA format.

Any student receiving below a “C” average at semester will be evaluated to determine whether the student should continue in College Prep English I or be transferred to English I.

English I

Prerequisite: None

Grade: 9

Credit: 1 per year

Students will master formal literacy study by analyzing and interpreting reading selections to include the following non-fiction and fiction genres: short story, poetry, drama, novels, biography/autobiography, essays and speeches. Students will be provided with the opportunity to expand their knowledge of active reading strategies, the writing process, research skills, use of technology, listening, viewing and speaking skills. Students will connect course material and assignments to their own lives while demonstrating proficiency in the writing process through the production of narrative, expository and persuasive essays, and persuasive literary analysis. Formal rhetoric and argument will be introduced with a required research project, including cited sources and MLA format. Vocabulary and grammar instruction will be incorporated as needed.

College Prep English II (Honors)

Prerequisite: Grade of A in English I or a B or better in CP English I

Grade: 10

Credit: 1 per year

Student will experience a composition-focused class supported by intense literary student (both fiction and non-fiction). Students will be expected to integrated technology into projects and/or presentations. Honor students will read independent novels in addition to the text taught in the classroom. The study of formal rhetoric and argument will expand with a significant research project, including cited sources and MLA format. Various modes of composition for both the academic and workplace environments will be introduced and studied, and there will be a continued focus on correct grammatical usage, the formal writing process, and vocabulary knowledge. As an advanced course, the length of writings and readings will be more demanding, and the text complexity of the literature will prove more rigorous. **Any student receiving below a “C” average at semester will be evaluated to determine whether the student should continue in College Prep English II or be transferred to English II.**

English II

Prerequisite: Successful completion of English I or CP English I

Grade: 10

Credit: 1 per year

In English II, students will continue to apply the literary skills they have acquired as the works (both fiction and non-fiction) they read increase in difficulty. Development of writing skills in the narrative, persuasive, and expository genres will continue with increasing emphasis on the skills of developing an evidenced-based argument. Research skills and the research process will be reviewed and students will be required to produce a major research paper including cited sources and MLA format. Rhetorical analysis skills will continue to be stressed. Vocabulary will continue to be stressed to add to their already developing repertoire. Grammar will be incorporated as needed. The communication process and presentation skills, including proficiency with technology integration, will also be included in this course of study.

College Prep English III (Honors)**Grade: 11****Prerequisite: Grade of A in English II or a B or better in CP English II****Credit: 1 per year**

This course presents an intense study of American literature from its infancy until contemporary times. Fiction, non-fiction, poetry, and drama selections written by significant American authors are studied. Students will pursue a concentrated study of the basic forms of writing in addition to producing a major research paper. Rhetorical analysis will be intensified in this course. Students will be expected to read independent novels in addition to the text taught in the classroom. Other skills this class will promote are college level vocabulary and writing style, speech communications, and integration of technology into projects and presentations. **Any student receiving below a "C" average at semester will be evaluated to determine whether the student should continue in College Prep English III or be transferred to English III.**

English III**Grade: 11****Prerequisite: Successful completion of English II or CP English II****Credit: 1 per year**

In this course students will read and analyze various American fiction and non-fiction including the following genres: short story, poetry, drama, novels, biography/autobiography, essays and speeches. Students will also become familiar with the characteristics of 18th, 19th, and 20th century American literature. Drama studies will include major American playwrights. Student writing will be based upon literary analyses. Rhetorical study will continue. Reading, critical thinking, vocabulary, grammar, and composition will be emphasized throughout the year. A major research project utilizing the MLA format will be conducted.

English IV**Grade: 12****Prerequisite: Successful completion of English III or CP English III****Credit: 1 per year**

In this year-long course, students will study a variety of literature, including prose, poetry, and drama, (both fiction and non-fiction). Students will write a variety of essays based on critical analysis of their reading. Research skills will be honed as students conduct research and produce a major research paper. Rhetorical strategies will be refined and grammar and vocabulary will continue to be emphasized.

English 101 (EGL 101 - LLCC Dual Credit) (Honors)**Grade: 12****Prerequisite: SAT, ACT, or Placement test results****Credit: ½ per semester**

The first course in a two-semester sequence of English composition, this course introduces students to academic writing as a process of developing and supporting a thesis in an organized essay. Course topics include methods of invention, development, and organization; the elements of style, including the conventions of standard written English; and an introduction to research and documentation. Students write expository and argumentative essays based on analytical reading and critical thinking.

English 102 (EGL 102 – LLCC Dual Credit) (Honors)**Grade: 12****Prerequisite: EGL 101 with a grade of C or better; placement testing****Credit: ½ per semester**

This course is designed to enhance and deepen the critical skills of argumentation and academic writing introduced in EGL 101. Students continue to write essays that demonstrate their ability to analyze and evaluate the ideas of others and integrate them into their own writing. The course reinforces student experience with the conventions of standard written English and the conventions of documentation while developing student ability to conduct research and present research findings in an ethical, accurate, and critical manner.

Introduction to Literature: (LIT 111 – LLCC Dual Credit) (Honors)**Grade: 12****Prerequisites: None****Credit: ½ per semester**

This course is an introduction to the critical study of the novel through the close examination of several selected novels. Students will study not only the traditional elements of fiction as they apply to the novel, but also other aspects such as the origin and historical development of the novel and how the author's life impacts his/her work. Student writing will be comprised of literary analysis. **Accuplacer placement test score of 76 or ACT score of 22 recommended and completion of EGL 101 strongly recommended.**

Classical Mythology**Grades: 11, 12****Prerequisite: None****Credit: 1 per year**

This is a year-long class in which students will study major Greek and Roman myths: those stories involving the Greek/Roman gods, goddesses, and heroes such as Zeus, Apollo, Hercules, etc. Students will examine not only the origins of the classic myths but also aspects such as the present-day influence of mythology. We will embark upon a detailed study of Homer's *Iliad* and *Odyssey* in addition to touching on Norse and Egyptian mythologies to do a comparative study of the similarities between the cultures in which these stories emerged and the qualities and characteristics they admired. While all students will enjoy the course, it is of particular benefit to the college-bound students since a great deal of terminology in the arts, the sciences, medicine, and various other fields is derived from the myths of these ancient cultures.

Film as Literature**Grades: 11, 12****Prerequisite: None****Credit: ½ per semester**

In this semester long course students will study film as a form of literature including the traditional literary elements of plot, setting, theme, conflict, and characterization, and film elements such as visual design, cinematography, musical score, acting, and the director's style. Students will view films with a critical eye to determine how they work and analyze each aspect of film with a literary eye to determine their message. Grades will be based on class discussions, homework, tests, and essays written over the films view in class. A writing assignment is included in which students must read a book and viewed the film adaptation, and then write a paper analyzing both.

Journalism**Grades: 10, 11, 12****Prerequisite: Grade of B in English I or CP English I****Credit: 1 per year**

Students will be equipped with the knowledge and understanding of the principles and practice of journalism: how to gather facts through skillful interviewing and research, develop sources, craft welcoming leads and satisfying endings, and create news and feature articles that inform and engage readers. Each week the students will have the opportunity to use these learned skills to develop a paper for the high school including topics, but not limited to: Current Events, Sports, Principal/Superintendent Corner, Sports, and Entertainment.

Speech**Grade: 11, 12****Prerequisite: None****Credit: ½ per semester**

Students will learn the fundamentals of public speaking with the focus on gaining confidence as an orator. Students will get experience giving informative, persuasive, special occasion, demonstrative, and impromptu speeches, as well as constructing speeches. Critical thinking and listening are required and class participation is a must.

MATHEMATICS

College Prep Algebra I (Honors)

Grade: 9

Prerequisite: Grade of A in Pre-Algebra or Counselor Recommendation

Credit: 1 per year

This course is the foundation of the math curriculum with a deeper level of understanding and an emphasis on critical thinking. Topics include solving equations and inequalities, functions, linear equations and graphs, systems of equations, exponents and polynomials, including factoring, and quadratic functions and equations.

Algebra I

Grade: 9,

Prerequisite: None

Credit: 1 per year

This course is the foundation of the math curriculum. Topics include solving equations and inequalities, functions, linear equations and graphs, pattern-finding, and systems of equations.

College Prep Geometry (Honors)

Grade: 9, 10

Prerequisite: Grade of B or better in Alg I and Counselor Recommendation

Credit: 1 per year

This course provides the fundamentals of points, lines, planes, and angles. We will cover proofs, logical reasoning, congruent polygons, coordinate geometry, basic trigonometry, and transformations. Algebraic skills are reviewed and strengthened as they are applied to geometric situations. Topics will be explored in depth, and some advanced topics added as time allows.

Geometry

Grade: 9, 10

Prerequisite: Algebra I and Counselor Recommendation

Credit: 1 per year

This course provides the fundamentals of points, lines, planes, and angles. We will cover proofs, logical reasoning congruent polygons, coordinate geometry, basic trigonometry, and transformations. Algebraic skills are reviewed and strengthened as they are applied to geometric situations.

College Prep Algebra II (Honors)

Grade: 10, 11, 12

Prerequisites: Grade of A in Geometry or a B or better in CP Geometry

Credit: 1 per year

This course will review some concepts from Algebra I, taking many to a deeper level of understanding. New topics will include matrices, advanced functions, complex numbers and introduction to pre-calculus and trigonometry topics. Several topics will be explored in greater depth than the standard Algebra II course. Furthermore, there will be a greater emphasis on modeling real-world scenarios, abstract problem solving, and critical thinking.

Algebra II

Grade: 10, 11, 12

Prerequisites: Geometry

Credit: 1 per year

This course will review some concepts from Algebra I, taking many to a deeper level of understanding. New topics will include matrices, advanced functions, conic sections, complex numbers, and introduction to pre-calculus and trigonometry topics.

Pre-Calculus (Honors)

Grade: 11, 12

Prerequisite: Counselor Recommendation

Credit: 1 per year

PreCalculus is a course that is designed to prepare students for Calculus, either in high school or college, and to make the connection from previous knowledge learned in Algebra I and II and Geometry. It is divided into two parts: 1) a deeper understanding of Algebra II concepts, and 2) Trigonometry. Topics of this course include (but are not limited to) the following: functions and graphs, equations and inequalities, polynomials and rational functions, and exponential and logarithmic functions, trigonometric functions and their applications, analytical trigonometry and analytical geometry (conic sections). ***Counselor Recommendation for any student not a junior or senior.***

Advanced Placement Calculus (Honors)**Grade: 12****Prerequisite: Grade of B or better in Pre-Calc or Counselor Recommendation****Credit: 1 per year**

The AP Calculus course covers topics in differential and integral concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, to make connections amongst these representations. Students learn how to use technology to help solve problems, experiments, interpret results, and support conclusions.

Advanced Placement Statistics (Honors)**Grade: 12****Prerequisite: Grade of A in Alg II or CP Alg II or Counselor Recommendation****Credit: 1 per year**

The AP Statistics course is equivalent to a one- semester introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

PHYSICAL EDUCATION

Activities Physical Education

Grade: 9, 10, 11, 12

Prerequisite: None

Credit: 1 per year

This course provides elementary through advanced physical skills in a variety of organized games and activities. Building social skills, including sportsmanship, is a priority of this physical education class. Grades are based on effort, attitude, and participation. A short written test will be given over each sport / activity in which the student participates. Activities will include basketball, dance, badminton, and a variety of other organized sports and activities. This course will also include beginning level fitness activities to include light jogging, walking, Pilates, and kickboxing. Students will be required to dress in the approved physical education uniform on a daily basis.

Fitness Physical Education

Grade: 9, 10, 11, 12

Prerequisite: None

Credit: 1 per year

This course will provide a weight lifting program, plyometric and agility training, and cardiovascular activities. This course is designed to improve the overall health and fitness for the student athlete or any student serious about lifetime fitness. Individual goal setting and personal responsibility will also be stressed. Grades are based on effort, attitude, and participation. Students will be required to dress in the approved physical education uniform on a daily basis. **This course is highly recommended for all student athletes.**

Exemption from Physical Education Requirement:

A student in grades 9-12 may submit a written request to the building principal to be excused from physical education courses for the reasons stated below:

Grades 9-12: Enrollment in a marching band program for credit (1st semester only)

Grades 11-12: Ongoing participation in an interscholastic athletic program (Opt out for a study hall)

Grades 11-12: Enrollment in academic classes that are required for admission to an institution of higher learning

Grades 11-12: Enrollment in academic classes that are required for graduation from high school, provided that failure to take such classes will result in the student being unable to graduate.

SCIENCE

Biology I

Grade: 9, 10, 11, 12

Prerequisite: Counselor Recommendation

Credit: 1 per year

Biology I is the first half of a two year study of the various topics in the life sciences. Topics include biological principles, cell structure, scientific method, ecology, genetics, botany, human body systems and evolution. Students will learn basic laboratory skills, which includes the use of a microscope.

Biology II (Honors)

Grade: 10, 11, 12

Prerequisite: Grade of B or better in Biology I

Credit: 1 per year

Biology II is an extension of Biology I. It includes taxonomy and classification, microbiology, fungi, and the animal kingdom. The lab work for this course includes dissections and outside work for the study of living organisms.

Chemistry I

Grade: 10, 11, 12

Prerequisite: Counselor Recommendation

Credit: 1 per year

This course includes observations, experiments, generalizations, and conclusions about composition of matter, stressing laboratory skills. Topics include properties of matter, atomic structure, compound formation, chemical reactions, stoichiometry and gas laws. Algebra is frequently used in problem solving. This course is an introductory course designed to prepare the college bound student for college chemistry courses. A calculator is required.

Chemistry II (Honors)

Grade: 11, 12

Prerequisite: Grade of B or better in Chemistry I

Credit: ½ per semester

This course is an extension of Chemistry I. Topics include liquids and solids, solutions, acids and bases, and chemical equilibrium. This course is designed to prepare the college bound student for college chemistry courses. A calculator is required.

Earth and Space Science

Grade: 10, 11, 12

Prerequisite: None

Credit: 1 per year

Earth and Space Science examines the characteristics of the planet. Topics include Earth's history, plate tectonics, minerals, the oceans, weather, climate, and Earth's resources. The space unit will focus on the moon and solar system and then branch out to encompass the galaxy and beyond.

Genetics (Honors)

Grade: 11, 12

Prerequisite: Grade of B or better in Biology II

Credit: ½ per semester

This spring course is an in-depth look at how traits are passed from parent to offspring and also an introduction to biotechnology of DNA. It includes the study of Mendelian genetics using Punnett squares, as well as current topics of GMO, gene therapy and cloning. A research project and power point presentation of genetic diseases is required.

Human Anatomy & Physiology (Honors)

Grade: 12

Prerequisite: Grade of B or better Biology II

Credit: 1 per year

Completion of or concurrent enrollment in Microbiology recommended.

This course is the study of the human body and is designed for upper level students. The content includes the following organ systems: skeletal, integumentary, muscular, digestive, respiratory, cardiovascular, nervous, endocrine, and reproductive. Lab work includes dissection of various organs such as an eye, brain, and heart, as well as a full organism. A field trip to study cadavers will also be included.

Microbiology (Honors)**Grade: 11, 12****Prerequisite: Grade of B or better in Biology II****Credit: ½ per semester**

This course is an in-depth look at the world of microbes. Students will be identifying bacteria and practicing bacteriological techniques. The emphasis of the course is on lab application which focuses on the study and investigation of bacteria found in/on food, soil, water, milk, and the human body, and will include the study of useful microbial activities. Discussions of harmful microorganisms, the diseases and conditions they cause, and the body's resistance and response to such activities are also stressed. It will provide students with the basic techniques for handling equipment and working safely with bacteria.

Physics (Honors)**Grade: 11, 12****Prerequisite: Pre-Calculus or concurrent enrollment in Pre-Calculus****Credit: 1 per year**

Physics examines the relationships of matter and energy. This course will focus on conceptual, mathematical and observational knowledge of the physical world, incorporating labs, demonstrations and hands-on problem solving. The fall semester covers mechanics including motion, forces, work, energy, momentum, collisions, and projectiles. Spring semester continues with the study of matter, pressure, thermodynamics, waves, sound, electricity, light, color, quanta, and relativity.

SOCIAL STUDIES

20th Century American History

Grade: 10, 11, 12

Prerequisite: None (Offered Even Years 2020-2021)

Credit: 1 per year

This course will focus on the development of Modern American History from Immigration through the new millennium. Particular focus will be made on major conflicts throughout the world that the United States has participated in including World War I, World War II, the Korean War, the Vietnam War, the Gulf War and beyond. Students will discuss how events in the interim eras led to these conflicts and how Americans contributed to the cause abroad and at home. They will learn how these events influence our modern history and shape decisions made by our government today.

American Government

Grade: 12

Prerequisite: Counselor recommendation for any student not a senior

Credit: ½ per semester

Completion of this course with a passing grade will fulfill the state requirement for government. Units in this course presented through reading, lecture, worksheets, and special projects are designed to create a working knowledge of the Illinois and Federal governmental systems and their surrounding environments. The Illinois Constitution exam will be included in the curriculum and successfully passing it is required for graduation.

Economic and Current Events

Grade: 11, 12

Prerequisite: None

Credit: ½ per semester

Economics is the study of how scarce resources are allocated. The way people react to scarcity is studied through the use of economic models. Areas of study include the history of economic thought, current economic thought, current economic dilemmas, and macro and microeconomics. Current events activities assist students in exploring various sources and researching contemporary issues that affect our world.

Illinois History

Grade: 9, 10, 11, 12

Prerequisite: None

Credit: ½ per semester

This course will begin with the settlement of the Northwest Territory, focusing on the life in the Illinois area. History of the formation of the state will be presented with a focus on local history as well. Students will learn to utilize local resources in researching historical information about both our state and our region, and will learn the important role Illinois has played in the development of the United States from its beginnings as a territory, through the Civil War, to the present day.

Psychology

Grade: 11, 12

Prerequisite: None

Credit: 1 per year

This course is geared to the college bound student and is designed to provide the student with a background for the entry-level college psychology class. This class will cover the major concepts and theories which have influenced modern psychology. The student will become aware of the roles that biology, culture, and personal experiences play in shaping our personalities. Evaluation will be based on class participation, homework, quizzes, tests, research projects, and presentations.

Psychology of Women

Grade: 11, 12

Prerequisite: None

Credit: ½ per semester

Psychology of women is designed for the serious student who is interested in learning more about the unique development of women's personalities and behaviors. Students will become aware of the roles that biology, culture, and personal experiences play in this development. Evaluation will be based on participation, homework, quizzes, tests, projects, and presentations.

Social Studies – Civics**Grade: 9, 10****Prerequisite: None****Credit: 1 per year**

This course will explore the five major themes of geography (location, place, human-environment interaction, movement, regions) and their application to the world. Study of the Earth's physical features and the interesting ways humans interact with the environment will be covered within these themes. Emphasis will be placed on North America, Europe, and the emerging economic and cultural influences of Asia (i.e. China/India). Projects such as travel journals and raising awareness about global issues will enhance student learning of geography.

Sociology**Grade: 11, 12****Prerequisite: None****Credit: 1 per year**

This is an introductory course into the study of sociology. This class will offer broad coverage of the major principles and concepts in sociology with examples and illustrations drawn for both non-literate and advanced societies with special emphasis being placed on the American social system, rising from the interactions of the groups. Emphasis will be placed on the concept of socialization, social interaction, social organization, culture, social institutions, and applied sociological principles. Requirements will include, but not be limited to, chapter projects and advanced written reports.

U.S. History**Grade: 11****Prerequisite: None****Credit: 1 per year**

The history of the United States is presented beginning from the American Revolution and continuing through the 1980s. Students will practice reading primary source material from each era, evaluating and analyzing its content and context. Additionally the required Federal Constitution Exam will be given in this course. Successfully passing the Constitution Exam is required for graduation.

Women in American History**Grade: 9, 10, 11, 12****Prerequisite: None****Credit: ½ per semester**

This course will focus on women in American history from colonization to modern times. Students will study the impact of women on the history of our nation from early colonial contributions and scandals like the Salem Witch Trials through the Revolutionary War period. They will also learn the impact of women during wartime both on the battlefields and the home front in all of the United States' major conflicts, including the Civil War, World War I, and World War II. Additionally, they will follow the pioneering women of the Women's Rights and Suffrage movement from its inception in the 1840s through ratifications of the 19th Amendment in the 1910s to Women's Liberation in more modern times.

World History**Grade: 10, 11, 12****Prerequisite: None (Offered Odd Years 2019-2020)****Credit: 1 per year**

This course provides a general survey of important historical events which have played a part in the development of today's world and cultures from ancient times until present-day. Topics may range widely across all aspects of the human experience including, economics, science, religion, philosophy, politics and law, military conflict, literature and the arts. The general purpose of the course is to develop within students a sense of historical perspective, including the ability to realize the importance of events as they happen in today's world. Students will refine their ability to read for comprehension and critical analysis; summarize, compare and evaluate information; write clearly and convincingly; and express facts and opinions orally.

CEO PROGRAM

CEO Program

Prerequisite: Application Approval

Grade: 12

Credit: 2 per year

This course covers the basics of conceptualizing, starting and running a small business. Concepts such as supply and demand, cost/benefit analysis, competitive advantage, and opportunity recognition will be covered. In addition, coursework will include: innovative thinking strategies, product development, business structure, marketing, financial strategies, and recordkeeping. Skills such as preparing an income statement, balance sheet, income, and cash flow statements will be covered. Entrepreneurial thinking (outside-the-box problem solving) will be utilized throughout the course. Students will learn from area business owners, visit area businesses, write business plans, and start their own businesses. Students also will have opportunities for job shadowing and business mentor relationships. Students will present their business plans to an advisory team. The course is built around the National Entrepreneurship Standards and is linked to the Illinois Learning Standards.

CORRESPONDENCE COURSES

Correspondence Courses

Grade: 10, 11, 12

Prerequisite: Application and approval (Handbook policy)

Credit: Varies

A student may enroll in a correspondence course to receive high school for work completed, provided:

- The course is given by an institution accredited by the North Central Association of Colleges and Secondary Schools,
- The student is a sophomore, junior, senior, or fifth year senior,
- The student assumes responsibility for all fees,
- The building principal approves the course in advance, and
- A maximum for four (4) credits may be counted toward the requirements for a student's high school graduation (principal approval is required).

ON-LINE COLLEGE COURSES

On-Line Course

Grade: 11, 12

Prerequisite: Approval of Counselor and / or Principal

Credit: ½ per semester

A student enrolled in an online or virtual course, may receive high school credit for work completed provided:

- The course is offered by an institution approved by the superintendent or designee,
- The course is not offered at the student's high school,
- The course is taken for credit recovery,
- The student assumes responsibility for all fees (including tuition and textbooks), and
- The building principal approves the course in advance.

Students may be limited as to the number of online courses that apply toward high school credit. Grades earned in approved online course count toward a student's grade point average, class rank, and eligibility for athletic and extracurricular activities. Students cannot drop a subject without the permission of the principal after the end of the third week of the semester without receiving a "W" grade.

WORK SKILLS

Work Skills

Grade: 12

Prerequisite: Application, approval, and continuing employment

Credit: 3 per year

The objective of this program is to assist students in the development and enhancement of employability skills while learning job responsibility and a strong work ethic. Students must maintain meaningful, outside employment; provide periodic work reports; and meet with the assigned school supervisor before school to earn credit.

NCAA CLEARINGHOUSE ELIGIBILITY

DIVISION I

If you want to participate in athletics or receive an athletic scholarship during your first year, you must:

- 1) Graduate from high school
- 2) Complete these 16 core courses:
 - ❖ 4 years of English
 - ❖ 3 years of Math (Algebra I or higher)
 - ❖ 2 years of Natural or Physical Science (including one year of lab science if offered by your high school)
 - ❖ 1 extra year of English, Math, or Natural or Physical Science
 - ❖ 2 years of Social Science
 - ❖ 4 years of extra core courses (from any category above, or foreign language, non doctrinal religion or philosophy)
- 3) Earn a minimum required grade-point average in your core courses: and
- 4) Earn a combined SAT or ACT sum score that matches your core-course grade-point average and test score sliding scale (for example, a 2,400 core-course grade-point average needs an 860 SAT)

DIVISION II

If you enroll in a Division II college and want to participate in athletics or receive an athletic scholarship during your first year, you must:

- 1) Graduate from high school
- 2) Complete these 16 core courses:
 - ❖ 3 years of English
 - ❖ 2 years of Math (Algebra I or higher)
 - ❖ 2 years of Natural or Physical Science (including one year of lab science if offered by your high school)
 - ❖ 3 additional years of English, Math, or Natural or Physical Science
 - ❖ 2 years of Social Science; and
 - ❖ 4 years of extra core courses (from any category above, or foreign language, comparative religion or philosophy)
- 3) Earn a combined SAT score of 820 or an ACT sum score of 68

DIVISION III

Division III does not use the Eligibility Center. Contact your Division III College or University regarding its policies on admission, financial aid, practice, and competition.

FOR MORE INFORMATION ON NCAA ELIGIBILITY – See NCAA.ORG

**NORTH MAC HIGH SCHOOL REGISTRATION
FRESHMAN – CLASS of 2023
2019 – 2020 SCHOOL YEAR**

<u>REQUIRED</u>	<u>ELECTIVE</u>
<u>PHYSICAL EDUCATION</u> Activities Physical Education Fitness Physical Education	Introduction to the Agriculture Industry Keyboarding and Document Formatting Advertisement & Document Design Basic Business Law and Marketing Web Design and Programming
<u>ENGLISH</u> English I College Prep English I	
<u>MATHEMATICS</u> Algebra I College Prep Algebra I Geometry College Prep Geometry	Driver Education Health Art I Art II Ceramics (2 nd semester only)
<u>SCIENCE</u> Biology I	French I
<u>SOCIAL STUDIES</u> Social Studies – Civics (9 th or 10 th)	Spanish I
<u>DRIVER'S EDUCATION / HEALTH</u> (9 th or 10 th)	Illinois History Women in American History
ELECTIVE	Band Chorus
ELECTIVE or STUDY HALL	Study Hall

**NORTH MAC HIGH SCHOOL REGISTRATION
SOPHOMORE – CLASS of 2022
2019 – 2020 SCHOOL YEAR**

<u>REQUIRED</u>	<u>ELECTIVE</u>
<u>PHYSICAL EDUCATION</u> Activities Physical Education Fitness Physical Education	Introduction to Agriculture Agriculture Business Animal Science Food Science Technology
<u>ENGLISH</u> English II College Prep English II	Keyboarding and Document Formatting Advertisement & Document Design Basic Business Law and Marketing Web Design and Programming
<u>MATHEMATICS</u> Geometry College Prep Geometry Algebra II College Prep Algebra II	Driver Education Health
<u>SCIENCE</u> Biology II Earth and Space Science Chemistry I	Art I Art II Art III Art IV Ceramics (Must have taken 1 Art Class) Drawing & Painting (Must have taken 2 Art Classes)
<u>SOCIAL STUDIES</u> Social Studies/Civics (9 th or 10 th)	Journalism
<u>HEALTH / DRIVER'S EDUCATION</u> (9 th or 10 th)	French I French II Spanish I Spanish II
ELECTIVE	Illinois History Women in American History World History
ELECTIVE or STUDY HALL	Band Chorus Study Hall

**NORTH MAC HIGH SCHOOL REGISTRATION
JUNIOR – CLASS of 2021
2019 – 2020 SCHOOL YEAR**

<u>REQUIRED</u>	<u>ELECTIVES</u>	<u>ELECTIVES</u>
<u>PHYSICAL EDUCATION</u> Activities Physical Education Fitness Physical Education	Introduction to Agriculture Agriculture Business Animal Science Food Science Technology Horticulture Science	Classical Mythology Film as Literature Journalism Speech
<u>ENGLISH</u> English III College Prep English III	Keyboarding & Document Formatting Advertisement & Document Design Video Production Computer Programming Computer Applications Basic Business Law and Marketing Web Design and Programming Accounting I	Biology II Earth / Space Science Chemistry II Genetics Microbiology
<u>MATHEMATICS</u> Algebra II College Prep Algebra II Pre-Calculus	Adobe Photo Shop Art I Art II Art III Art IV Advanced Studio Ceramics (Must have taken 1 Art classes) Drawing and Painting (Must have taken 2 art classes)	Illinois History Women in American History World History Psychology Psychology of Women Economic and Current Events Sociology
<u>SCIENCE</u> Chemistry I Physics	Independent Art	Driver Education
<u>SOCIAL STUDIES</u> U.S. History	French I French II French III	CACC
ELECTIVE	Spanish I Spanish II Spanish III	On-Line College Course
ELECTIVE	Band Chorus Honors Band	Study Hall
ELECTIVE or STUDY HALL		

**NORTH MAC HIGH SCHOOL REGISTRATION
SENIOR – CLASS of 2020
2019 – 2020 SCHOOL YEAR**

<u>REQUIRED</u>	<u>ELECTIVE</u>	<u>ELECTIVE</u>
<u>PHYSICAL EDUCATION</u> Activities Physical Education Fitness Physical Education	Introduction to Agriculture Agriculture Business Animal Science Food Science Technology Horticulture Science	Classical Mythology Film as Literature Journalism Intro to Literature: The Novel Lit Speech
<u>ENGLISH</u> English IV English 101 / English 102	Keyboarding & Document Formatting Advertisement & Document Design Video Production Computer Programming Computer Applications Basic Business Law and Marketing Web Design and Programming Accounting I Accounting II	Pre-Calculus AP Calculus AP Statistics
<u>SOCIAL STUDIES</u> American Government (1/2 year)		Biology II Earth / Space Science Chemistry I Chemistry II Genetics Human Anatomy / Physiology Microbiology Physics
<u>BUSINESS</u> Consumer Education (1/2 year)		Illinois History Women in American History World History Psychology Psychology of Women Economic and Current Events Sociology
ELECTIVE	Adobe Photo Shop Art I Art II Art III Art IV Advanced Studio Ceramics (Must have taken 1 Art Class) Drawing and Painting (Must have taken 2 Art Classes) Independent Art	Driver Education
ELECTIVE	French I French II French III French IV	CACC
ELECTIVE	Spanish I Spanish II Spanish III Spanish IV	CEO Program
ELECTIVE or STUDY HALL	Band Honors Band Chorus	On-Line College Courses Work Skills Study Hall

NORTH MAC HIGH SCHOOL COURSEWORK PLANNING GUIDE

ENGLISH **4 years**

College Prep English I
English I
College Prep English II
English II
College Prep English III
English III
English IV
English 101 / 102
Classical Mythology
Film as Literature
Journalism
Introduction to Literature
Speech

MATHEMATICS **3 years**

College Prep Algebra I
Algebra I
College Prep Geometry
Geometry
College Prep Algebra II
Algebra II
Pre-Calculus
AP Calculus
AP Statistics

SCIENCE **3 years**

Biology I
Biology II
Chemistry I
Chemistry II
Earth and Space Science
Genetics
Human Anatomy / Physiology
Microbiology
Physics

SOCIAL STUDIES **3 years**

20th Century American History
American Government
Economics & Current Events
Illinois History
Psychology
Psychology of Women
Social Studies – Civics
Sociology
U.S. History
Women In American History
World History

BUSINESS

Accounting I
Accounting II
Advertisement & Document Design
Basic Business
Computer Applications
Computer Programming
Consumer Education
Keyboarding & Document Formatting
Law and Marketing
Video Production
Web Design and Programming

AGRICULTURE

Agriculture Business
Animal Science
Food Science Technology
Horticulture Science
Introduction to Agriculture

FINE ARTS

Art I
Art II
Art III
Art IV
Advanced Studio
Adobe Photo
Ceramics
Drawing & Painting
Independent Art

Band
Chorus
Honors Band

FOREIGN LANGUAGE

French I
French II
French III
French IV

Spanish I
Spanish II
Spanish III
Spanish IV

MISCELLANEOUS

CACC

Driver Education

Health

Activities Physical Education

Fitness Physical Education

Work Skills

On-line College Courses

CEO Program

Study Hall