

2021-2022 Northmor High School Course Offerings

This handbook has been prepared to assist you in planning your high school educational program. It is designed to acquaint you with the subjects available and to help you choose a course of study that will be best for you.

It is expected that each student will read and discuss this material with his/her parents/guardians so that the wisest decisions will be reached. It is advisable to discuss these choices with your teachers and counselors.

Definition of a Credit

The Ohio Department of Education defines a credit as 120 clock hours of classroom instruction in a specific subject area. Thus, a 1 credit academic course would meet five times per week for the entire school year (approximately 36 weeks), for a period of at least 40 minutes. A ½ credit course would constitute 60 clock hours of classroom instruction in a specific subject area.

Graduation Requirements

The following credits (a minimum of 21) must be earned in order to graduate from Northmor. There are also testing requirements students must meet during the course of their high school careers. The following credits must be included in the twenty-one credits:

English	4 credits	
Social Studies	3 credits	(including Government/Economics)
Science	3 credits	
Mathematics	4 credits	(including Algebra 2 or Equivalent)
Health	½ credit	
Physical Education	½ credit	
Fine Arts	1 credit	
Electives	5 credit	

Schedule Requirements

All students must register for at least six subjects each semester. This means a student may have no more than two study halls. If a student chooses to work in the office, be a lab assistant, library aide, etc., it will be done at the expense of one of the student's study halls.

Change of Schedule

Any student may change his/her classes with parental permission. The following restrictions will be enforced:

- All schedule changes are processed by the school counselor and approved by the 7-12 principal.
- Adding a class must be done during the first week of a semester
- Dropping a class without penalty is permitted within one week after the class starts.

2021-2022 Northmor High School Course Offerings

- Students are permitted to drop one (1) course after the first week without penalty only ONE time during their high school career, students will receive a WD on their transcript.
- The penalty for dropping a class after the deadline after the one penalty-free drop is zero credit for the course and letter grade of “F” figured into your cumulative grade point average. If the school counselor and the principal feel that dropping a course is necessary, and in the students best interest, then this may be waived.
- You may not schedule more than two (2) study halls per semester.

Recommended College Prep Plan for students planning to enroll in Four-Year College

- 4 Credits of English with emphasis on composition
- 4 Credits of Mathematics including Algebra I, Geometry, and Algebra II
 - 1 credit of math is recommended to be taken in the senior year
- 3 Credits of Science including two lab sciences (Chemistry is recommended)
- 3 Credits of Social Studies
- 2 Credits of Foreign Language

Recommended Tech School Prep Plan for students planning to enroll in a Two-Year College

- 4 Credits of English
- 4 Credits of Math (including Algebra I, Geometry and Algebra II)
- 3 Credits of Science
- 3 Credits of Social Studies

Technical School may be an alternative for students who do not meet all necessary college criteria for a 4-year experience.

Recommended Vocational School Plan for students planning to enroll in Pioneer CTC

- 2 Credits of English
- 2 Credits of Math
- 2 Credits of Science
- 2 Credits of Social Studies
- 1 Credit of Fine Arts
- 2 Semesters of Physical Education
- 1 Semester of Health

2021-2022 Northmor High School Course Offerings

Honors Diploma Requirements

**Students need to fulfill only 7 of the following 8 criteria*

Criterion	Ohio Diploma	Academic Honors Diploma	Career Tech Honors Diploma
Math	4 units, must include 1 unit of Algebra II or equivalent	4 units, Algebra I, Geometry, Algebra II (or equivalent), and 1 other higher level course or 4 course sequence that contains equivalent or higher content	4 units, Algebra I, Geometry, Algebra II (or equivalent), and 1 other higher level course or 4 course sequence that contains equivalent or higher content
Science	3 units	4 units, including 2 units of advanced science	4 units, including 2 units of advanced science
Social Studies	3 units	4 units	4 units
World Languages	N/A	3 units of 1 world language or no less than 2 units of each of 2 world languages studied	2 units of 1 world language studied
Fine Arts	2 semesters	1 unit	N/A
Electives	5 units	N/A	4 units of Career-Technical minimum
GPA	N/A	3.5 on a 4.0 scale	3.5 on a 4.0 scale
ACT/SAT/Work Keys	N/A	27 ACT/1280 SAT	27 ACT/1280 SAT/Work Keys (6 Reading for Information & 6 Applied Mathematics)
Field Experience	N/A	N/A	Complete a field experience and document the experience in a portfolio specific to the student's area of focus
Portfolio	N/A	N/A	Develop a comprehensive portfolio of work based on the student's field experience or a topic related to the student's area of focus that is reviewed and validated by external experts
Additional Assessments	N/A	N/A	Earn an industry-recognized credential or achieve proficiency benchmark for appropriate Ohio Career-Technical Competency Assessment or equivalent

ENGLISH COURSES

English I 1 credit Fee: \$15.00

English 1 is a full year course that will follow the College and Career Readiness standards. Instruction will focus on the conventions of grammar, usage, capitalization, and punctuation when writing. The writing process will be used to develop organized pieces of writing; informative, explanatory, narrative, and argumentative. Weekly vocabulary lessons will be used to enhance students' use of vocabulary in written and spoken work. Complex literature and informational text will be studied with an emphasis on central ideas, inferences, drawing conclusions, point-of-view, character development, and more.

English II 1 credit Fee: \$10.00
Prerequisite: English I

This course will include an overview of areas pertaining to grammar and its usage in speaking and writing. Additionally, this course will cover "tier" two and three level (common core standards) vocabulary lessons and activities. Students will maintain a "writing" portfolio that will include a narrative, descriptive, expository, and argumentative paper with revisions for each writing assignment. Students will write one research paper that uses the research MLA format. A variety of literary genres will be read and analyzed; such as, journals, speeches, fiction, and nonfiction. Lastly, "speaking" and "listening" skills will be addressed during literary analysis class discussions. These areas are in compliance with Ohio's Learning Standards.

English III 1 credit Fee: \$10.00
Prerequisite: English II

English III will be following Ohio's Learning Standards and the ODE model curriculum for ELA. Included in this class will be the study of both classic and modern American literature including short stories, poetry, drama, a novel and analysis of seventeenth, eighteenth, and nineteenth century foundational US documents. Writing styles being covered will be informational, argumentative, narrative, and literary analysis. Reinforcement of standard rules of grammar and a study of Tier 2 and college preparatory vocabulary will be used with all writing assignments. In addition a speaking and listening component will be used to further analyze both literary and information texts. Projects will be integrating research and bibliography skills and the use of technology.

English IV 1 credit Fee: \$10.00
Prerequisite: English III

English 4 will be following Ohio's Learning Standards and the ODE model curriculum of ELA. Included in this class will be the study of both classic and modern British Literature including short stories, poetry, drama, a novel and analysis of seventeenth, eighteenth, and nineteenth century foundational world documents. An advanced understanding of informational, argumentative, narrative and literary analysis will be expected with emphasis on a variety of

2021-2022 Northmor High School Course Offerings

structure and well-rounded arguments and support. Reinforcement of standard rules of grammar and a study of Tier 2 and college preparatory vocabulary will be used with all writing assignments. In addition a speaking and listening component will be used to further analyze both literary and information texts. Projects will be integrating research and bibliographic skills and the use of technology.

World Literature semester course ½ credit Fee: \$7.00
Prerequisite: English II

This World Literature course will enhance and broaden students' awareness of the cultural commonalities and differences that create a mutual connection for most nations. Students will be taught the historical intellectual movements that helped to shape literature for varying countries. This course will incorporate fiction, poetry, plays, and nonfiction. Students will conduct research on authors and a country's culture, which will follow with Socratic student-led discussions. Socratic discussions will also encompass and enhance the standards for "speaking" and listening skills. Students will also produce written reflective essays and projects that will adhere to ODE Common Core Standards. This course does not fulfill the English requirement.

Theater Literature semester course ½ credit
Prerequisite: English II

Theater Lit is a performance-based class focusing upon the core elements of acting, directing, and designing. The student will learn the techniques of creating stories through pantomime and improvisation. Memorization and interpretation will be developed through the performance of a children's book. The design project puts the student in the role of the director / producer of a musical for which he/she will create blocking, sets, costume design, publicity, and a master play book. The final exam is a collaborative project with the core rehearsal group creating an original script, designing sets and costumes, and performing for the class. If you've always wanted to find your inner actor, this is a class to consider. This course does not fulfill the English requirement.

Mythology semester course ½ credit

In this semester class, students will have exposure to several elements of mythology: Gods/Goddesses, Heroes, and Monsters. This class will focus on predominantly Greek mythology, but there will be multiple opportunities to explore mythology from other cultures. Units of study will focus on creation, gods and goddesses, hero's journey, and monsters and their meanings. Students will explore the stories first told around a fire and learn how they have relevance in our world today. Writing in this class will be both creative and research-based in nature. This class will also have a focus of sharing information and creative works. No prior background knowledge or prerequisite is needed. This class will use English/Language Arts Standards to guide instruction. This course does not fulfill the English requirement.

Yearbook

semester course

½ credit

In this semester class, students will create a historical account of the school, events, and students with support from the classroom teacher. Students will use a computer program to create a yearbook for the current school year. Students will learn layout design to help guide page creation. Also students will learn proper writing and editing skills. Collaboration and communication are real world skills that will be developed in this class, along with understanding deadlines. This will be an engaging and enjoyable class that will allow students to be both creative and invested in creating recorded school memories. No prior background knowledge or prerequisite is needed. This course does not fulfill the English requirement.

Comparative Literature/Publications

Year-long course

1 credit

Comparative Literature moves beyond the borders of any one country or linguistic community to study literature across languages, geographies, time periods, and genres. Comparative Literature also examines the relationship between literature and other forms of cultural expression and human experience, including popular culture, technology, other arts, and other disciplines such as anthropology, history, philosophy, political science, religion, or women's and gender studies. The course will also focus on publications and will cover the techniques of design, graphics, and current trends in publishing, as well as identifying and communicating with an audience

CCP English Courses (Taught by Mrs. White)

ENG1000 - English Composition I

semester course

1 Northmor credit/3 MTC semester hours

Prerequisite: Qualifying Accuplacer or ACT score and acceptance from MTC.

Recommended: English II with a final grade of B or higher.

In this composition course, you will write themes and essays based on your own experience. This class includes an analysis of the formality needs of Standard English, the study of effective organization and style, the analysis of writing for logic and reason, and a strong concentration on developing clear and concise writing skills. Online specifications: All assignments, including the midterm and final, are to be completed online. This course is part of the Ohio Transfer Module (OTM) and approved to transfer to any state college or institution.

ENG1100 - English Composition II

semester course

1 Northmor credit/3 MTC semester hours

Prerequisite: ENG1000

As a continuation of English Composition I, students will expand their knowledge through reading, thinking, and writing assignments. Through essay writing, students will demonstrate their ability to analyze and evaluate ideas and integrate those ideas into their own writing. Students will engage in writing both independently and collaboratively while participating in discussions and reading assigned literature. The course places emphasis on the research essay as a fundamental form of writing in which students will document sources while integrating research into their writing. Online specifications: assignments, including tests, are submitted

through CANVAS. All assignments are the same as the traditional class. This course is part of the Ohio Transfer Module (OTM) and will transfer to any state college or university in Ohio.

MATHEMATICS COURSES

***All Math courses must be approved by the current year math teacher prior to scheduling.**

Algebra 1

1 credit

This course deals with the basic language of Algebra, solving equations, inequalities, and problems with one and two variables. The course will also deal with such things as exponents, radicals, factoring, and graphing linear and quadratic equations. **At the completion of the course, the state Algebra I AIR Test will be taken as a graduation requirement.**
(TI 83/TI 84 Plus calculator is required)

Geometry

1 credit

Prerequisite: Algebra I

This course stresses the basic development of geometry. Space geometry is integrated with plane geometry and algebra skills are reviewed as needed. In addition, the course includes: studies in trigonometry, area and volume, constructions, and coordinate geometry (which relate geometry and algebra). Proficiency in developing formal proofs enables the student to better understand and appreciate the need for clarity and precision of language.

Algebra II

1 credit

Prerequisite: Algebra I

This course reviews the basic principles of Algebra I such as: sets, equations, inequalities, and polynomials. The major segment of the course will be an in-depth study of rational numbers and expressions, relations, and functions, and study of irrational numbers, radicals, and quadratic equations. (TI 83/TI 84 Plus is required) **Students will be placed in this course immediately after passing Algebra I, but not scoring “proficient” on the required state Algebra I AIR test.**

Mathematics 12

1 credit

Prerequisite: Geometry & Algebra II

This course is for seniors only and must have a Math teacher’s recommendation for placement. A TI-83/84 graphing calculator is required. This course does not meet NCAA eligibility requirements. **This course is not recommended for students continuing on to college.**

Trigonometry

semester course

½ credit

Prerequisite: Geometry & Algebra II

This course is a semester long course and is meant for students who have taken the algebra courses and plan to go to college. The students will study the theory behind trigonometry and also apply what they have learned to a variety of fields. Students will review topics from algebra

2021-2022 Northmor High School Course Offerings

such as real numbers, functions, graphs of functions, and inverse functions. New topics will include trigonometric functions, analytic trigonometry, triangular trigonometry, complex numbers, exponential functions, logarithmic functions, and topics in analytic geometry. Special attention will be given to using the TI-83/TI 84 calculator. Course should be taken with Statistics and Probability.

Statistics and Probability semester course ½ credit
Prerequisite: Geometry & Algebra II

This is a semester long course and is meant for students who have taken the algebra courses and plan to go to college. Students will collect data and use statistics to support their findings. Students will also learn how to apply what they have learned to science, politics, journalism, education, athletics, and a variety of other fields. Topics covered will include experimental design, averages, variance, elementary probability theory, binomial probability distribution, normal probability distribution, sampling distributions, estimation, hypothesis testing, regression, and correlation. Special attention will be given to using the TI-83/TI 84 calculator. This course should be paired with Trigonometry or CCP Stats.

Pre-Calculus 1 credit
Prerequisite: Geometry & Algebra II

The fourth year on mathematics helps the student apply algebraic and trigonometric concepts and skill; understand the role of logic, apply mathematical techniques, prepare for modern courses in calculus, abstract algebra, and probability; and perceive the unity of mathematics. This course studies functions and their derivations and applications, analytic geometry, trigonometry (theory and practical application), and logic. The graphing calculator (TI-83/84 calculator) is widely used in the development of problems and their outcomes.

Calculus 1 credit
Prerequisite: Pre-Calculus

A formal study of topics from Calculus that is not associated with the Advanced Placement Program. This course includes the study of limit, series differentiation and integration.

Math Lab 9/10/11 1 elective credit

This course is designed for students who have struggled with math in the past. In this class setup, the student will have an opportunity to work one-on-one with the teacher. In addition, the students will work with several online resources that focus on the topics that they will be learning in their math course on a daily basis. **This course receives a Pass/Fail as a grade.**

CCP Math Courses (Taught by Mr. Tackett)

MTH1245 - College Algebra semester course 1 Northmor credit/3 MTC credits
Prerequisite: Qualifying Accuplacer or ACT score and acceptance from MTC.

Recommended: Algebra II with a final grade of B or higher.

College Algebra emphasizes the use of algebra and functions in problem solving and modeling. Appropriate use of technology and applying mathematics to real-world situations is emphasized. Topics include relations, functions, graphs, polynomial functions, rational functions, exponentials, logarithms, and systems of equations.

MTH 1240 - Statistics semester course 1 Northmor credit/3 MTC credits

Prerequisite: Qualifying Accuplacer or ACT score and acceptance from MTC.

Recommended: High School Statistics & Probability and Algebra II with a final grade of B or higher.

Statistics is an introduction to descriptive and inferential statistical methods including sampling, probability, point and interval estimation, hypothesis testing, and regression. Real data and appropriate technology will be used.

SCIENCES COURSES

Physical Science

1 credit

Physical Science provides the basic foundation for scientific literacy in Northmor graduates and provides the necessary framework for advanced science studies. The physical world is studied and described through examination and exploration of chemical and physical principles. Exploration, examination, and instruction are facilitated through laboratory exercises, demonstrations, independent research and lecture in a cooperative learning environment. Society's demand for scientifically literate graduates is facilitated and enhanced by NHS student's participation in and mastery of Physical Science course work before advancing to other science offerings. An ongoing cooperative effort by the science department, grades 7-12, is necessary to ensure that NHS graduates have the science skills necessary to make informed decisions in an increasingly technical world.

Biology

1 credit _____ Fee: \$10.00

Prerequisite: Physical Science

Biology is the study of life. Biology is approached on both the cellular and organism level. Areas of study include characteristics of life, organism relationships, organism diversity, genetics, environmental relationships, and economic importances.

Laboratory work involves microscopic observations, dissection and field trips on the school grounds. The collection and growth of specimens for laboratory examination relates classroom work to the outside world. Biology is recommended for those considering college.

Chemistry

1 credit

Fee:\$16.00

Prerequisite: Algebra 1

2021-2022 Northmor High School Course Offerings

Chemistry is the central science, central to the understanding of other sciences and technology. This Chemistry course is preparation for college. The structure, properties of and changes in matter are studied. The classification of matter, the periodic table and its trends, chemical bonding, mass relationships, formulas, equations, study of gases, and acid-base chemistry are explored.

Environmental Science 1 credit Fee: \$15.00
Prerequisite: In grade 11 or 12 and Physical Science
Recommended: Biology and Chemistry

Environmental Science stresses the interrelation of resources, economics, environment, food, production and population. Special emphasis will be placed on understanding concepts and laws that govern our use of energy of resources and understanding how basic principles of economics relate to resource/environmental problems.

Physics 1 credit Fee: \$15.00
Prerequisite: Geometry, Physical Science & Biology

Physics explains the phenomena of the world around us. This course is designed for those who are interested in science and technology and for those who need a general background in physics for college, technical school, or nursing. The connection of physics and other sciences to other related fields is emphasized. A good background in math is essential. Topics explored include: speed, acceleration, forces, vectors, gravity, momentum, energy, waves, heat, fluids, electricity, sound and light.

Anatomy & Physiology semester course ½ credit Fee: \$20.00
Prerequisite: Biology & Chemistry

In Anatomy and Physiology, students survey the different systems of the human body, with an emphasis on the relationship between structure and function. The course begins by teaching the language of anatomy and familiarizing students with the building blocks of the human body: cells and tissues that combine to create the complex organs and support structures of the body. Students get to know their bodies inside and out, from the skin that covers and protects the entire body to the skeleton and the attached muscles that provide support and create movement. Moving deeper inside, students explore the cardiovascular, respiratory, urinary, and digestive systems, which work together to supply the body with nutrients and rid it of wastes. Students also learn how the nervous and endocrine systems respond to the environment and maintain a state of balance. Students study the reproductive system as they follow the development of a human from a single-celled zygote to a mature adult. Interwoven throughout many lessons is information about genetic diseases, dysfunctions, and ailments, such as diabetes, HIV, and arthritis.

Forensics semester course ½ credit Fee: \$20.00
Prerequisite: Biology & Chemistry

2021-2022 Northmor High School Course Offerings

This engaging course introduces students to the field of forensics through a comprehensive look at related careers, laboratories, crime scene processing, evidence, and the impact of media on criminal investigations and trials. Students learn about specific techniques used in crime scene investigations, including autopsy, fingerprint analysis, DNA fingerprinting, and other types of evidence and analysis important to solving crimes.

CCP Science Courses (Taught by Mr. Trainer)

CCP Biology semester course 1 Northmor credit/4 MTC credits

Prerequisite: Qualifying Accuplacer or ACT score and acceptance from MTC, Chemistry

BIO1100 - General Biology

This is a one semester course. This course has a laboratory component which emphasizes the principles of the lecture. The lecture will deal with scientific theory, chemistry, the cell, energy, genetics, principles of evolution, and basic anatomy and physiology. 4 Cr Hrs. Course

Requirement(s): Complete High School Biology with a C or better

SOCIAL STUDIES COURSES

American History (Required grade 9) 1 credit

This is a yearlong course covering post the Reconstruction years to present. We will trace our political history and study the workings of our government. Historical highlights from this period will include Progressive Movement, World War I, The Great Depression, World War II, the “Cold War,” the “Space Age,” the Korean War, the Vietnam War, Desert Storm, and post 9-11 events.

World History (Required grade 10) 1 credit

The study of history continues from the year 1815 and progresses to 1919. Major areas of study are as follows: Industrial Revolution, formation of nation states, colonialism, immigration, westward expansion, black history, women’s studies, and age of invention, 19th century politics, Native American studies, and World War I. This class is taught as interconnected topics.

Through several class activities, students gain appreciation for the connection between their lives and the past.

American Government (Required grade 11) 1 credit

This course studies the workings of our government on the national, state, and local levels. The course covers important historic documents including the Northwest Ordinance, the Declaration of Independence, and the Constitution and its amendments. Also included is a study of current events as they relate to the government.

Psychology semester course ½ credit

2021-2022 Northmor High School Course Offerings

Psychology is the study of human behavior. As a discipline Psychology employs the scientific method to investigate the many complexities of human existence. It is not the pursuit of various opinions that have no basis in careful observation and experimentation. Introduction psychology emphasizes the work of pioneers such as Sigmund Freud, Ivan Pavlov, B.F. Skinner, and Carl Rogers and their contributions to the field. Learning human development, personality, and mental disorders are examples of topics of study. Psychology is an ever-expanding field, particularly because of technological advances that allow greater depth of investigation into biological processes that affect behavior.

Sociology

semester course

½ credit

Sociology is the study of social life, social change, and the social causes and consequences of human behavior. Sociologists investigate the structure of groups, organizations, and societies, and how people interact within these contexts.

HEALTH AND PHYSICAL EDUCATION COURSES

Health

semester course

½ credit

The task of Health is to awaken in the student an awareness of the nature of health and the lifelong importance of maintaining and developing it. Health is a student-centered, concept-oriented course of study.

It stresses those principles of thought and behavior that underlie zestful living throughout life—acceptance of self, harmonious association with others and awareness of social responsibility. Health recognizes the individual personality as a complex inter-relationship of physical, emotional, mental, social, and value development.

Physical Education I & II

semester course

¼ credit

Physical education I (1/4 credit) is taken during the student's freshman year. Physical education II (1/4 credit) is taken during the student's sophomore year. This course is designed to develop physical and motor fitness, fundamental motor skills, and skills for participating in individual and/or group games and sports, and a positive self-concept for each student. Students will have the opportunity daily to increase flexibility, muscular strength, and aerobic fitness. There will be multiple indoor and outdoor activities offered. This class is designed for athletes and nonathletes alike.

Advance Physical Education I & II semester course

¼ credit

Prerequisite: Grades 11 & 12 and Physical Education I & II.

Weight training and some aerobic activities will be expected in Advanced Physical Education. Students will have a daily workout schedule and will be expected to complete multiple lifts during each class period. **This course cannot be taken in place of Physical Education I or II.**

Walk Fit

semester course

¼ credit

This course has been created for individuals that want to participate in a daily fitness routine, but not at the cost of intense competition. Students will participate in a daily walking routine and be responsible for keeping track of their individual laps (distance walked). Walking has been proven to be one of the most beneficial exercises, and is available to nearly every individual. Walking is considered a lifelong activity that can improve your overall health. This includes: physically, mentally and emotionally. **This course may be taken in place of Physical Education I & II.**

Fine Arts Courses

MUSIC COURSES

Concert Band

$\frac{3}{4}$ Credit Fee:

Prerequisite: Previous participation in a musical instrument program or private instruction is required. Students are expected to have their own instrument, in working condition at all times.

Band is an excellent opportunity to grow musically and contribute to an organization. The purpose of the Northmor Bands is to promote the highest standards of excellence in performance, musicianship, professionalism, and pride in oneself, ensemble, school, and our community. Learning objectives of this ensemble include technical and aural development, tuning, breathing, note identification, blend, balance, intonation, tone quality, and major scales.

Concert Band season begins in November at the start of Quarter 2. Concert Band covers all phases of performance in standard band literature. The Concert Band performs three or more formal concerts a year.

$\frac{3}{4}$ credit is earned for each year of participation. Semi-formal attire is expected for band members at concerts.

Marching Band

$\frac{1}{4}$ Credit

Fee: TBA

Prerequisite: Previous participation in a musical instrument program or private instruction is required. Students are expected to have their own instrument, in working condition at all times.

The Marching Band season begins in late summer, with preparation of football pregame/half-time shows and entertainment for varsity football games and performances in parades/band shows, etc.

$\frac{1}{4}$ credit is earned with Marching Band during Quarter 1 of the school year.

Band fees for shirts/shoes/gloves/dry cleaning are required.

All students that choose Marching Band must also choose Concert Band to earn a full credit.

Concert Choir

1 credit

Fee: Dry Cleaning \$10.00

This course is for students in grades 9-12 who are very interested in singing and performing. Participants will learn to sing by sight, sing in different styles and languages, improve their vocal technique, learn about the voice, and sing in three or more performances per school year. Choir members will also have outside opportunities such as traveling to see touring Broadway shows,

2021-2022 Northmor High School Course Offerings

Solo and Ensemble Contest, District X Honors Choir Festival, and the All-Ohio State Fair Youth Choir. One credit is earned for each year of participation.

High School Music Survey

1 Credit

Prerequisite: 1 high school Band or Choir credit

The purpose of this course is to increase students' musical awareness and give students the tools to actively listen to, discuss, critique and form educated opinions about various styles of music. The students will discover we will be studying "music that they didn't know that they know." During the first semester, students will explore many forms and genres. Examples include: Music in movies, music from Motown, world music, etc. The second semester will focus on learning basic theory and elements of music: intervals, chord structure, harmony, form, texture, timbre, and music history. This course will prepare students for music at the collegiate level.

ART COURSES

Art I

1 credit

Fee: \$40.00

This course is an introductory course into the many forms of visual art. Coursework focuses on processes of creating, communicating through and responding to art. Some of the media that will be covered includes: pencil, ink, colored pencil, pastel, and printmaking. Art appreciation is introduced as related to media or style. This course fulfills the graduation requirement for a Fine Arts credit.

Art II

1 credit

Fee: \$40.00

Prerequisite: Art I

This course is a more involved study of concepts learned the first year in art. The student will work in two-dimension and three-dimension media while studying principles of art and design. Increased personal expression and communication through artwork and responses is promoted. Examples of media and subject matter include: charcoal, ink, gouache, pastel, mixed media, pencil, watercolor and ceramics.

Art III

1 credit

Fee: \$40.00

Prerequisite: Art II

This course is a more involved study of the areas of drawing, painting, and sculpture. Historic movements in art, including significant artists and their work are examined to begin establishing the student/artist's personal style and influences. Art criticism skills are further developed through responses to artwork of both peers and culturally representative artists. Examples of media, assemblage sculpture, digital design, and independently selected new media.

Art IV

1 credit

Fee: \$40.00

Prerequisite: Art III

This course is designed to provide students with experiences relevant to studio work and careers involving the arts. The student and instructor collaboratively design the curriculum involved. Students will actively research historic and contemporary artwork and create responses in the form of written and studio work organized in a portfolio. Independent thinking and problem solving is stressed. Individual style will be reflected on more advanced usage of media is mandatory. All studio projects are independently determined through a proposal and approval process.

FOREIGN LANGUAGE COURSES

Spanish I 1 credit

Students will learn vocabulary, grammar and phrases of the Spanish language at the beginner level. Basic written and verbal communication is practiced regularly. We will also discuss the people and cultures of Spanish speaking countries.

Spanish II 1 credit

Students will learn vocabulary, grammar and phrases of the Spanish language at the intermediate level. Written and verbal communication is practiced regularly. We will discuss the people and cultures of Spanish speaking countries.

Spanish III 1 credit

Students will learn vocabulary, grammar and phrases of the Spanish language at the intermediate/advanced level. Written and verbal communication is practiced regularly. We will discuss the people and cultures of Spanish speaking countries.

Spanish IV 1 credit

Students will learn vocabulary, grammar and phrases of the Spanish language at the advanced level. Advanced written and verbal communication is practiced regularly. We will discuss the people and cultures of Spanish speaking countries.

FAMILY AND CONSUMER SCIENCE COURSES

Managing Transitions semester course ½ credit Fee: \$10.00

Life is a continual process of change and transition. Change occurs in many forms from minor transitions to major transformations and upheavals. Changing demographics, new technology, a global economy, and new demands on workers will bring major change to the world of work in the 21st century. Some people thrive on change while others struggle through such periods. This course is designed to help students prepare for and handle the many changes within the life cycle.

2021-2022 Northmor High School Course Offerings

Foods 101 semester course ½ credit Fee: \$15.00

This course is designed to help students create wellness for self and family. From food safety to fitness, they will learn how to make healthy choices when it comes to maintaining their health. They will also select and use proper equipment to plan, prepare, and serve nutritious meals.

Personal Finance semester course ½ credit Fee: \$5.00

This course is designed to prepare students for successful management of their personal finances. It is a course that addresses the knowledge, skills, attitudes, and behaviors associated with the management of individual and family finances. This course is required for graduation.

Child Development semester course ½ credit

Child Development is designed as a lecture and occasional hands-on activities class. You will be working on a combination of text materials and projects. We will have several activities that will promote cooperative team/family experiences.

Topics to be explored: preparing for birth and baby's arrival; baby's first year; and childhood one to twelve. The knowledge to meet the needs of infants and young children and to provide for healthy growth and development will also be discussed.

AGRI-SCIENCE COURSES

Agriculture, Food and Natural Resources (Ag. 100) 1 ¼ credit Fee: \$20.00

This first course in the career field is an introduction to Agricultural and Environmental Systems. Students will be introduced to the scope of the Agricultural and Environmental Systems career field. They will examine principles of food science, natural resource management, animal science & management, plant & horticultural science, power technology and bioscience. Students will examine the FFA organization and Supervised Agricultural Experience programs. Throughout the course, students will develop communication, leadership and business skills essential to the agriculture industry.

Animal and Plant Science (Ag. 200) 1 ¼ credit Fee: \$20.00
Prerequisite: Ag. Food and Natural Resources (Ag. 100)

Students will apply knowledge of animal and plant science to the agriculture industry. They will be introduced to the value of production animals relative to the agricultural marketplace. Students will engage in animal classification and selection, body systems, along with animal welfare and behavior in relation to the production of animals. Students will learn principles of plant anatomy and physiology, and the role of nutrition, deficiencies and growing environment on plant production. Throughout the course, business principles and professional skills will be examined.

Livestock Selection, Nutrition, and Management 1 ¼ credit Fee: \$20.00
(Ag. 300 & 400)

Prerequisite: Animal and Plant Science (Ag. 200)

Students will identify and apply principles and routine husbandry practices to production animal populations. Topics will include principles of nutrition, feed utilization, animal welfare, selection and management of facilities and herd populations. Students will apply knowledge of production animal care to enhance animal growth, selection of breeding stock, and management practices. Throughout the course, students will develop management plans reflecting practices for care and legal compliance.

Agriculture Business Management (Ag. 300 & 400) 1 ¼ credit Fee: \$20.00

Prerequisite: Animal & Plant Science (Ag. 200)

Students will examine elements of business, identify organizational structures and apply management skills while developing business plans, financial reports and strategic goals for new ventures or existing businesses.

Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Throughout the course, students will apply concepts of ethics and professionalism while implications of business regulations will be identified.

BUSINESS/COMPUTER COURSES

Accounting I Year-long course 1 credit Fee: \$40.00

Prerequisite: Grade 10, 11, or 12

Accounting touches the lives of everyone; so every student (whatever his/her field of study) needs to learn the basic principles of accounting. It is especially valuable to students going into office work, farming, or students hoping to own their own business.

In this course, students study the complete accounting cycle of double-entry accounting for a sole proprietorship, a partnership, and a corporate merchandising business. They will work with various journals and ledgers, payroll records, taxes, bad debts, plant assets and depreciation. At least one business simulation will be completed during this year-long course.

Accounting II Independent study year-long course 1 credit Fee: \$40.00

Prerequisite: C or better in Accounting I

Students in Accounting II will review basic accounting procedures and then move into more advanced accounting such as: departmental and payroll accounting, partnership accounting,

2021-2022 Northmor High School Course Offerings

accounting for taxes, notes and drafts, corporation accounting, and cost accounting. At least one business simulation will be completed during this year-long course.

Business Computing 1 credit Fee: \$25.00
Prerequisite: Grades 10, 11 and 12

Business Computing is recommended for all students. Topics covered in this course include online essentials (digital media and communications, technology and ethics, the Internet and social media, online safety and security, evaluating online information), computer essentials (hardware, software, file management, networking and user accounts, databases, programming), *Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Microsoft Access, and Microsoft Outlook*. *Office Pro* practice exams will be included to help students prepare for *Office Pro Certification*.

Business Law Semester course ½ credit Fee: \$20.00
Prerequisite: Grades 10, 11 and 12

Business Law class provides an overview of legal principles encountered in business and personal dealings. Topics explored include criminal, tort, and contract law, as well as consumer protection. At the end of this course, students will be able to: respectfully and diplomatically defend a point of view, explain the differences and similarities between law and ethics, understand the elements of criminal law and tort law, and describe the major elements of a contract.

Digital Literacy Semester course ½ credit Fee: \$20.00

Students in Digital Literacy will learn what it means to be a good digital citizen by covering topics such as cyber literacy, Internet safety, cyberbullying, cyber ethics, social media, and computer threats. Through a “content infusion” approach, students will learn about these topics as they complete various projects using different Google Applications.

Drones/Python Programming Semester Course ½ Credit Fee \$20.00

Today’s technology climate has created a data and information systems driven economy. Robotic systems are becoming increasingly sophisticated and a multi-billion dollar drone industry has emerged.

This course will cover the fundamentals of quadrotor drone kinematics and dynamics, quadrotor sensor data analysis, and semi-autonomous motion planning for a single quadrotor. Students will be guided through the process of setting up the required flight control parameters using joystick,

2021-2022 Northmor High School Course Offerings

accelerometer, and gyroscope modes. Both block and Python programming will be used to create programs to operate the drones.

Robotics

Semester course

½ credit

Fee: \$20.00

Computer science drives innovation and is one of the fastest growing fields in our economy. Not only are computer science jobs growing at twice the national average, they are also some of the highest paying jobs in the world. Programming is an important skill regardless of career choice. When students learn to program, they also learn important problem-solving, creative thinking, and computational thinking skills. *LEGO Mindstorms EV3* and *VEX Robots* bring code to life and allow students to see how what they're learning has a direct impact in the real world, and how individual math and engineering elements come together to form a solution to a real problem.

INTERVENTION COURSES

Positive Leadership

semester course

½ credit

Key features of the program include: 1) Skills training, with focus on building self-esteem, setting/monitoring goals, decision making, personal control, and interpersonal communication. 2) A small-group context of adult and peer support, to enhance the personal and social protective factors of high risk youth. 3) A school system crisis response plan that includes both school and community-based strategies and resources. 4) Parent Involvement, including active parental consent, support of RY goals and awareness of school/community support resources for teens and families. 5) Social activities and school bonding to foster healthy choices in friends and increased repertoire of fun, safe and drug-free activities.

WORK PROGRAM

JOG 9 (JOBS for Ohio Graduates)

1 credit

JOG 9 is a 5-year School-To-Work program for incoming freshman. Students receive services through graduation and a post graduation follow-up period. The 9th grade instruction covers: life skills training, remediation, career exploration, decision making and goal setting. JOG assists in finding summer employment or assists the student in enrolling in summer school. Special activities are planned for each student in the summer. The course is a full credit class that meets daily.

JOG 10 (JOBS for Ohio Graduates)

1 credit

This course offers students the opportunity to attend leadership development activities, meet a wide variety of area businesses and service organizations, and participate in the National Career Association. The course does not stop when school lets out. Instead it helps students find summer employment or assists them in enrolling in summer school. Special activities are planned for each student in the summer. The course is a full credit class that meets daily.

JOG 11 (JOBS for Ohio Graduates)

1 credit

This is the third year of a four-year sequential course of instruction. In addition to classroom training in job attainment skills, selected students are placed in job sites for work-based training experiences. Other instruction includes money management, values, clarification, remediation, and social development. Students are assisted through the summer to continue in their present employment, summer school or to acquire summer employment

JOG 12 (JOBS for Ohio Graduates)

1 credit

2021-2022 Northmor High School Course Offerings

Jobs for Ohio Graduates: School-To-Work program for seniors that meets daily. The JOG curriculum covers areas such as resume writing, career exploration, job attainment, job advancement, verbal skills, written skills, leadership skills, teamwork skills, time management, self-development, and job survival skills. The course offers students the opportunity to attend job fairs, meet a wide variety of business people, and participate in the National Career Association. The ultimate goal is to assist students in developing a specific career plan such as obtaining a full-time job, entering the military, enrolling in a technical training program or college.

VIRTUAL CLASSROOM (V.C.) EDUCATIONAL OPTIONS

All students selecting virtual classroom options will be assigned to a monitored lab setting for one period of the school day. All virtual classroom educational options are electives, on-line, 1 semester and ½ credit. Students must be in 10th grade and will need to apply to be enrolled in the virtual classroom educational option.

Artificial Intelligence

This course is focused on the history, applications, and innovations of artificial intelligence. Students will learn about intelligence agents, problem-solving using search algorithms, knowledge representation, and reasoning in artificial intelligence. Students will also learn about the basic concepts of machine learning and natural language processing (NLP). Students will also learn about expert systems, computer vision, and robotics. This course also covers ethics and safety related to artificial intelligence.

Creative Writing

This course is designed to get students to pursue creative writing as a vocation or as a hobby. To that purpose, it exposes them to different genres and techniques of creative writing, and also the key elements (such as plot and characterization in fiction) in each genre. Great creative writing does not come merely by reading about the craft—one also needs ideas; a process for planning, drafting and revising; and the opportunity to experiment with different forms and genres.

Introduction to Fashion Design

From Components of Fashion to Haute Couture to Production, this course is focused on the practical aspects of career preparation in the fashion design industry. The course provides students with both breadth and depth, as they explore the full gamut of relevant topics in fashion design.

Introduction to Marine Biology

This course is designed to introduce students to oceanic features and processes, ocean habitats and ecosystems, life forms in the ocean, and different types of interactions in the ocean. Students will learn about the formation and characteristic features of the oceans. They will learn about the scientific method and explore careers available in marine biology. They will learn about the characteristic features of different taxonomic groups found in the ocean. They will learn about the different habitats, life forms, and ecosystems that exist in the oceans and explore the different types of adaptations marine creatures possess to survive in the ocean. They will learn about succession and the flow of energy in marine ecosystems. They will also learn about the resources that the oceans provide and the threats that the oceans face from human activities.

Introduction to Philosophy

This course provides students an introduction to the field of philosophy and its great, timeless questions. Students explore the origin and evolution of philosophy as a discipline and learn about the times, lives, and intellectual contributions of essential philosophers.

Introduction to Veterinary Science

This course is designed to introduce all students at the high school level to the fundamentals of veterinary science, measures to control diseases in animals, and the impact of toxins and poisons on animal health. The students will explore the history of veterinary science and the skills and requirements for a successful career in the veterinary industry. They will also explore the physiology and anatomy of animals, learn how to evaluate animal health and determine effective treatments for infectious and noninfectious diseases in animals. Additionally, they will learn about zoonotic diseases and the impact of toxins and poisons on animal health.

Women's Studies

Women's Studies introduces students to women's studies, gender studies, and gender roles. The course traces the history of feminism, analyzes feminist theories, and examines intersectionality. Students will learn about social and political movements for the rights of women and other vulnerable groups. Students will also learn about social and family structures and socialization, which includes identifying prejudices, biases, and stereotypes that exist in society, and how the media perpetuates some stereotypes about gender roles and identities. The course also covers social and family structures, different forms of oppression, ways to prevent oppression, and methods to help and empower victims. Students will learn about international activism for gender equality, legal rights, and the challenges in achieving equality for all citizens from every section of society.

VIRTUAL CLASSROOM (V.C.) CAREER TECHNICAL EDUCATIONAL OPTIONS

All V.C. career technical educational options are electives, on-line, 1 or 2 semesters (A is first semester, B is second semester) and ½ credit. You have the option of taking just the first semester/A if you choose. Students must be in 10th grade and will need to apply to be enrolled in the virtual classroom educational option.

American Sign Language (ASL) A/B

This introduction to ASL A will introduce you to vocabulary and simple sentences, so that you can start communicating right away. Importantly, you will explore Deaf culture – social beliefs, traditions, history, values and communities influenced by deafness. In ASL B, Learn to Sign will introduce you to more of this language and its grammatical structures. You will expand your vocabulary by exploring interesting topics like Deaf education and Deaf arts and culture

Applied Medical Terminology A/B

Medical Terminology helps students understand the structure and meaning of medical terms and identify medical terminology associated with various body systems. As the healthcare industry

becomes more and more complex, developing expertise in accurately and efficiently identifying medical terms and their specific application is essential to a growing variety of health care careers.

Audio Video Production 1 A/B

This course is designed to enable all students at the high school level to learn the basics of audio video production. The course will help the students develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video activities.

Certified Nurse Aide A/B

The course is designed to enable students to learn the key skills and information that they need to work as certified nurse aides. The course will help students develop an understanding of the human body, physical and nutritional needs, mental health needs and teach them to provide culturally competent and quality care to clients in a safe and healthy environment. The course is based on the NNAAP Exam syllabus and is designed to prepare students to take the exam and become certified nurse aides.

The course has animations and videos that demonstrate key skills that students must acquire to work as nurse aides. The practice test at the end of the course gives students practice on the written exam that they'll need to give to become certified nurse aides.

Digital & Interactive Media A/B

This is an effective and comprehensive introduction to careers in the rapidly expanding world of digital art. The course covers creative and practical aspects of digital art in 15 lessons that are enhanced with online discussions and a variety of activities. Beginning with a history of digital art, the course goes on to issues of design, color, and layout. While students will experience the creation of digital art, they will also learn about converting traditional art to digital formats.

Drafting & Design A/B

From the history of drafting and design to a look at the latest in the industry's latest computer-aided tools, this course gives your students a comprehensive look at a dynamic and in-demand career. The course features skill-embedded content that connects student learning to real-life experiences.

Entrepreneurship A/B

This course is designed to help students understand the roles and attributes of an entrepreneur, marketing and its components, selling process, and operations management. This course discusses entrepreneurship and the economy, marketing fundamentals, managing customers, production and operations management, money, and business law and taxation.

Game Development

In this course, they'll learn the ins and outs of game development to prepare them for a career in the field. Whether it is the history of video games, character development, mobile game design, user interface design, social gaming, or the principles of development design and methodologies, this 20-lesson course covers it all. Games are included in the course to enhance the learning experience and help assess student progress. While fun and highly engaging, the course focuses on laying a strong foundation for a career in game development.

Graphic Design & Illustration A/B

This course will help students develop an understanding of the industry with a focus on topics such as history of graphic design, types of digital images, graphic design tools, storing and manipulating images, design elements and principles, copyright laws, and printing images.

Introduction to Criminology

Introduction to Criminology is a one-semester course that covers the theories related to criminology. This course covers subject areas such as classical theory, positivist theory, punishing offenders, routine activity theory, labeling theory, social disorganization theory, peacemaking criminology, and many more.

Introduction to Cybersecurity

This course introduces students to the field of cybersecurity, focusing primarily on personal computer use and vulnerabilities while also highlighting the wider scope of cybersecurity from a societal and career perspective. Specific topics include computer security, VPN and wireless security, risk management, and laws, standards, and ethics related to cybersecurity.

Principles of Architecture and Construction

This interactive course empowers students with the knowledge to appreciate and evaluate career opportunities in architecture and construction. With an emphasis on developing critical thinking skills, this one-semester course includes a variety of activities as students learn about structures and loads, materials and costs, urban design, and other aspects of these fascinating career opportunities.

Principles of Arts, Audio/Video Technology, & Communications A/B

This course appeals to your students' familiarity with a variety of sensory inputs and stimulus. With an emphasis on visual arts, the lessons introduce learners to careers in design, photography, performing arts, fashion, and journalism, among others.

Principles of Education & Training A/B

This course is designed to enable all students at the high school level to learn the basics of education and training. Students will learn about the various trends and factors that influence the

education industry. This course introduces various career opportunities in the field of education. The units in this course include personal and professional skills needed in various education careers, child growth and development, child health, delivering instruction, and technology in education.

Principles of Engineering & Technology A/B

This course provides students with essential STEM knowledge and an effective overview of STEM careers. The course's lessons are interspersed with activities and online discussions that engage learners and promote understanding and achievement. Topics covered include biotechnology, mechanics, and fluid and thermal systems. The concluding lesson provides a valuable overview of the overall engineering design process.

Principles of Hospitality & Tourism A/B

The hospitality and tourism industry offers a dynamic career path that will pique the interest of many of you. This course emphasizes learning the practical aspects of the industry and the development of critical thinking skills that lead to real-world solutions.

Principles of Human Services A/B

This course is designed to enable all students at the high school level to develop the critical skills and knowledge necessary in the human services industry. Students will learn about various personal characteristics that they need to demonstrate in the workplace, such as integrity, and positive work ethics. This course covers topics such as employability skills, counseling and mental health services, and consumer services.

Principles of Law, Public Safety, Corrections, & Security A/B

For many reasons, high school students are drawn to learning about the careers addressed in this course. This course helps students learn about careers that make a powerful impact in all of our lives. From criminal law to every phase of the trial process, the course moves on to include lessons on the correctional system and the implications of legal ethics and the constitution.