



ACADEMIC COURSES

2015 - 2016

This is a comprehensive list of all courses offered at North Lake High School. Not all courses are offered every trimester.

INTRODUCTION

North Lake High School provides students with the opportunity to recover credit through teacher directed and computer learning courses such as Odysseyware.

North Lake High School graduates must successfully complete twenty two (22) credits of course work to receive a high school diploma.

The courses described in this handbook are aligned with the Michigan Merit Curriculum and the Michigan High School Standards and Benchmarks.

All graduates must complete the following:

Graduation Requirements through the Class of 2015

English – Language Arts	4.0 credits
Health and Physical Education	1.0 credits
Mathematics	4.0 credits
On-Line Learning Experience	0.5 credits
Science	3.0 credits
Social Studies	3.0 credits
Visual, Performing, Applied Arts	1.0 credits
<u>Required Course Total</u>	<u>16.5 credits</u>
+	
<u>Electives</u>	<u>5.5 credits</u>
<u>Total Required</u>	<u>22.0 credits</u>

Graduation Requirements beginning with the Class of 2016

English – Language Arts	4.0 credits
Health and Physical Education	1.0 credits
Mathematics	4.0 credits
Technology	0.5 credits
Science	3.0 credits
Social Studies	3.0 credits
Visual, Performing, Applied Arts	1.0 credits
Foreign Language	2.0 credits
<u>Required Course Total</u>	<u>18.5 credits</u>
+	
<u>Electives</u>	<u>3.5 credits</u>
<u>Total Required</u>	<u>22.0 credits</u>

COMPUTERS

COMPUTERS

This course deals with Computer programs and applications. It will be a comprehensive look at various everyday programs used in society. It will combine personal skill and creativity to complete assignments. It will look at software, including but not limited to, Microsoft Word, Excel, Power Point, web-based programs and the Internet. The students will be asked to show proficiency on the computer and all the programs studied.

ENGLISH

ENGLISH LANGUAGE ARTS 9A & 9B

This course will be an in-depth look at literature that guides students in finding their self and place within society. Students will be expected to read and analyze various works of literature and write responses to these works. The students will also learn ways English is used in today's society and show proficiency in real world applications of English. They will learn the Writing Process, vocabulary and spelling. They will be asked to relate literature to "real life" situations and experiences.

ENGLISH LANGUAGE ARTS 10A & 10B - AMERICAN LITERATURE

The courses are designed to further support student development in all five of the language arts areas: reading, writing, speaking, listening, and viewing. The focus of this class will be on American Literature. A wide variety of literary and informational text will be read and analyzed. While each unit of study has anchor readings that relate to the theme, it is understood that each unit will be supplemented with additional novels, poems, short stories, essays and film clips relating to the theme.

ENGLISH LANGUAGE ARTS 11A & 11B - BRITISH LITERATURE

The course will be dealing with British Literature. It will look at the different times of Britain and the historical, social and technical view of British Literature. The students will be asked to read and discuss the literature and various literary elements within them. In addition to reading British Literature, students will be expected to analyze and write about the literature, relate the historical and social views to the readings and compare or contrast to current situations in the world. They will be asked to relate literature to "real life" situations and experiences.

ENGLISH LANGUAGE ARTS 12A & 12B – WORLD LITERATURE

This course will be dealing with world literature. It will be a chronological exploration of literature from around the world. It will be an unbiased look at the historical, social and technical view of various pieces of literature. The students will be asked to read and discuss the literature and literary elements within them.

CREATIVE WRITING

This course provides opportunities for students to express themselves creatively in poems, journals, and essays. Students will read a variety of publications to develop their assignments. This course may be substituted for English 12.

DRAMA

This course will be dealing with drama as literature and aspects of theater. It will examine various plays from classical to modern times. The students will be asked to read, interpret and discuss the plays and the literary elements present within them, including, but not limited to, plot, setting, themes and characterization. They will also be asked to relate common themes to "real life" experiences and situations. In addition to the plays, students will also be expected to analyze and write about the plays, create and perform skits and scenes illustrating the literary elements discussed and the technical aspects of theater. There will also be a section on

creating all aspects of theater, including set design, costuming, make-up, sound and lighting. The students will research and participate in creating a production. This course will combine interpretive, analytical and critical thinking for class discussion and writing.

ENGLISH FUNDAMENTALS

This course will be a thematic approach to literature and writing. It will look at different styles of literature and writing. The students will be asked to read and discuss the literature and various literary elements within them. The student will be expected to participate in discussion. In addition to reading literature, students will be expected to analyze and write about literature and/or current topics and compare or contrast to current situations in the world. They will be asked to relate literature to “real life” situations and experiences. This course will combine interpretive, analytical and critical thinking for class discussion and writing.

ENGLISH IN TODAY’S WORLD

This course will be dealing with English and the skills needed to function in today’s society. It will prepare students for everyday application of English skills. The students will be asked to imagine real life situations and develop the skills needed to master these situations. In addition to fundamental English skills, students will be expected to analyze and write about the situations, create writings that will help land jobs and the processes included in job searching. The students will be expected to apply the materials of this course in “real world” situations.

MASS MEDIA

Students will become familiar with the impact of mass media on society. Activities will include readings, current events, research, class discussions, writing, interpretation, analysis, oral participation, and objective evaluation. This course may be substituted for English 12.

MODERN LITERATURE

This course will look at the different areas and genre of Modern Literature and the historical, social and technical view that created and influenced Modern Literature. Students will be asked to read and discuss the literature and various literary elements within them. In addition to reading Modern Literature, students will be expected to analyze and write about the literature, relate the social views to the readings and compare or contrast to current situations in the world. They will be asked to relate literature to “real life” situations and experiences. This course will combine interpretive, analytical and critical thinking for class discussion and writing.

MYTHS & LEGENDS

This course will be dealing with Mythology, Fables and Legends. It will be a comprehensive look at the mythology, fables and legends of different cultures. It will look at the oral and literary traditions of cultures including, but not limited to Greek, Roman, Native American and Egyptian. It will compare/contrast the different myths and legends. It will look at the different cultures and how they relate to the historical, social and technical view of myths, fables and legends. The students will be asked to read and discuss the literature and various literary elements within them. In addition to the readings, students will be expected to analyze and write about the literature, relate the historical and social views to the readings and compare or contrast to current situations in the world. They will be asked to relate literature to “real life” situations and experiences. This course will combine interpretive, analytical and critical thinking for class discussion and writing.

PUBLICATIONS I & II

This course will involve understanding the fundamentals of producing a school newspaper and a yearbook. The student will learn the basics of, including, but not limited to, researching materials, article writing, copy editing, layout and design, photography, and conducting interviews. They will be asked to relate the in-class assignments to “real life” situations and experiences. It will require a combination of personal skill and creativity to complete assigned tasks. Various techniques and software will be used to compile the newspaper and yearbook.

There will be team assignments as well as individual assignments. The students will be asked to show proficiency on the computer and in completing coursework.

THE RENAISSANCE

This course will be dealing with the Renaissance time period and the Middle Ages. It will be a comprehensive look at the life and times of the people living during the medieval and renaissance era. It will combine literature, history, art, music and architecture from the time. In addition to the readings, students will be expected to analyze and write about the materials, complete projects, relate the historical and social views to present time, present and participate during in-class discussions and activities.

SHAKESPEARE

This course will be dealing with the works of William Shakespeare. It will look at the life and times of William Shakespeare and the historical, social and technical view of Shakespeare. The students will be asked to read and discuss the plays and various literary elements within them. Students will be expected to analyze and write about them, relate the historical and social views to the readings and compare or contrast to current situations in the world. They will be asked to research and understand the language of Shakespeare.

WRITING WORKSHOP

This is a writing intensive course. It will cover all aspects of writing, including but not limited to, grammar, proofreading, editing, essay writing, poetry, short story and the research paper. You will also be writing for and creating the newspaper as one of your ongoing assignments.

SCIENCE

ATMOSPHERES & OCEANS

This course will cover the composition, structure and properties of the earth's atmosphere. Students will be introduced to meteorology, the study of atmospheric phenomena and they will explore various types of severe weather. Different types of climate will be studied, specifically why different climates occur and how they are classified. Finally, this course will study the oceans and explore the formations of ocean floor features such as ridges and trenches.

BIOLOGY A

Basic biological concepts will be covered including cell structures, cell functions, the five kingdoms and classification systems. Students will observe and perform lab activities related to the above areas of study.

BIOLOGY B

This course covers the Earth's changes through time. Areas to be studied include life's diversity, evolution, viruses, bacteria, protists, fungi and plants. Students will participate in various lab and group activities.

CHEMISTRY A and B

The basic concepts related to the study of chemistry are explored and applied using basic formulas and simple activities. Some of the areas of study are the scientific method, properties, classification and structure of matter, periodic law, atoms and bonding and chemical reactions.

EARTH SCIENCE A (METEOROLOGY)

This class will examine the role of the atmosphere and the oceans in Earth's weather patterns. Topics include basic meteorology, nature of storms, and Earth's changing climate. At the end of this class students will be able to understand and identify weather patterns and weather systems. Students will also be able to understand the oceans' role in world weather and climate. Students will take part in actively monitoring weather data and interpreting data to make meteorological predictions.

ENVIRONMENTAL SCIENCE

This course studies the Earth's biosphere and ecological interactions. Topics covered will include the changing environment, matter and energy in the world biomes. Students will participate in a variety of group activities related to the above topics.

ANATOMY/PHYSIOLOGY

This class will cover genetics through a presentation of the work of Gregor Mendel. Meiosis is also introduced and discussed. Students will learn about the structure of DNA, how it is replicated and the processes of transcription and translation are explained. Mendelian patterns of heredity and the principles of genetics as applied to humans are covered. The second part of this class focuses on the organs and systems of the human body and how they interact with one another.

PHYSICAL SCIENCE

The basic concepts related to the study of physics are explored and applied using basic formulas and simple activities. Some of the areas of study are the scientific method, motion, forces, fluids, simple machines, heat, electricity and magnetism.

PHYSICS

This course will focus on Michigan's Physics science content expectations including: the nature and practice of scientific inquiry, motion of objects, forces and motion, and forms of energy and energy transformations. Students will learn that physical principles allow understanding in other sciences and everyday experiences (e.g. heat exchanges in the atmosphere as they relate to weather, pressure and temperature differences causing different geological formations, radiation of electromagnetic energy and how it affects photosynthesis, the behavior of light and the eye, electricity, electromagnetic waves and your cell phone, nuclear fission and power plants, atomic structure and chemical reactions).

SOCIAL STUDIES

AMERICAN GOVERNMENT

This course will cover our democratic heritage, our structure of government, how democratic institutions function, how different economic systems view the purpose of government and what contributes to good citizenship. At the end of the course, students will be able to recognize how politics are important to our lives, understand how a bill becomes law, the branches of government and their purposes, improve reading skills, understand political vocabulary and understand how economics mirror different views of government.

ECONOMICS

Economics is about making choices. Consider how changing economic circumstances might affect the student's lifestyles. By the end of the term, students will be able to discuss the basic economic problems faced by consumers in American society, discuss how businesses make economic decisions, discuss ways people invest money to save for the future, and discuss how economic policy affects the individual, state, nation and world.

MICHIGAN HISTORY

This course will cover exploration and early settlements; the growing years; the versatility of what Michigan has to offer; the growth of the auto industry and industrialization; the state government and its functions; basic information about Michigan locations, highways and how to read a map. Upon completion of this course, the student will be able to understand how Michigan became what it is today; recognize the various functions of state governments, geographical influences and effects of change; draw conclusions on current events and past history as they relate to everyday sources; realize his/her personal contributions to society; understand the elements in Michigan favorable to the growth of industrialization; know the geographical locations of at least 20 major areas; share a sense of pride in their state; know basic Michigan locations; know how to read a map.

PSYCHOLOGY

This course will be a comprehensive look at the theories, ideas and beliefs of Psychology. It will compare/contrast the different theories. It will look at the different cultures and how they relate to the historical, social and technical view of psychology. The students will be asked to read and discuss the writings and theories. In addition to the readings, students will be expected to analyze and write about the Psychology, relate the historical and social views to the readings and compare or contrast to current situations in the world. They will be asked to relate the theories to “real life” situations and experiences. This course will combine interpretive, analytical and critical thinking for class discussion and writing.

SOCIOLOGY

This course will provide students with an examination of the basic concepts, principals and methods central to the study of sociology. This class will meet three major roles: to teach students to think like a sociologist, to help students develop a sociological imagination and to help students understand and appreciate the diversity in social life by exposing them to data from a wide variety of cross-culture and historic sources.

WORLD HISTORY & GEOGRAPHY A/B

This two semester course will focus on the emergence of man, the spread of humans through the planet. Emphasis will be on non-European cultures and religions and how the geography of the region affected the civilization the culture of the society. “A” will cover from classical Greek to the Age of Exploration; “B” will cover the discovery of America to the present.

US HISTORY and GEOGRAPHY A

This course will survey the development of the US from Pre-Columbian American to Appomattox, focusing on Native American societies, Age of Exploration, colonial development, The Revolution, sectional differences, the causes leading to the Civil War and Reconstruction. Upon completion of this course, the student will be able to list the major physical regions of North America; describe the way of life of early Native Americans; order the steps by which the 13 English colonies became independent; describe the reasons for European exploration; identify the major events influencing American expansion.

US HISTORY and GEOGRAPHY B

US History B traces the development of the US from 1865 focusing on Industrialization, Americans movement from isolation to world leadership, the Depression and WWII. It will survey the development of the Cold War, the reform movements of the 50's and 60's, Korea and Vietnam, different ethnic groups and the continuing expansion of civil and human rights. Upon completion of this course, the student will be able to demonstrate knowledge of people, events, ideas, institutions and historical movements; use visual aids such as charts, graphs, maps and photographs; demonstrate knowledge of cultural diversity and unity in American society; construct meaning by reading and gathering, interpreting, analyzing, synthesizing and evaluating information; compare and contrast the development of different regions of the United States; demonstrate a knowledge of cause and effect in historical situations. The student will be able to demonstrate a knowledge of cause and effect in historical situations; develop an informed and reasoned commitment to human rights and equal dignity to all people; demonstrate knowledge of cultural differences between the generations of the 60's; use visual aids, such as charts, graphs, maps and photographs; compare and contrast a free society from a totalitarian one; demonstrate knowledge of the historical consequences of committing American forces throughout the world.

GLOBAL GEOGRAPHY

This course will cover the physical and cultural geography of the world. Using the five themes of geography, students will be able to think spatially about their surroundings. There is an emphasis on the increasing connectedness of people and places due to the influence of globalization on world trade, travel, communication, culture, and natural environment.

CURRENT EVENTS

This course is designed to give students a broader view of the world through current events. Students will explore important local, state, national, and international events and topics. Students will use various forms of media to help them examine this information.

LAW/PRACTICAL LAW

The purpose of this elective course is to introduce students to knowledge of law that will help them make decisions in their role as productive citizens. Students increase their knowledge of various types of law including criminal, civil, business, family, and juvenile. While acquiring new knowledge about law, students practice the skills of interpreting, organizing, and analyzing information. Emphasis is placed on activities, which foster the application of legal knowledge to making decisions about personal and public matter.

COUNTER CULTURE IN AMERICA

The purpose of this one quarter elective course is to analyze history from more of a cultural than political standpoint. Students will explore the ever changing culture of 20th-21st century America through perceptions of music, style, art, and identity. The course will trace the beginnings of many American countercultures and how mainstream America reacted and eventually embraced the new ideas. Counter cultures covered will include; The Beat Generation, Rock-N-Roll, Hippies, Punks, and Hip-Hop.

HISTORY OF THE HOLOCAUST

The Holocaust is a tragic combination of general European and Jewish history. Topics studied in this course include: the development of anti-semitism in Europe and the rise of Nazism; European Jewry in the interwar period; the Third Reich's treatment of the 'Jewish Question' in the 1930s; Jewish resistance; fate of the survivors; and implications of the Holocaust for contemporary society. Students will review primary and secondary resources, hear testimony from holocaust survivors, and will analyze propaganda used by the Nazi party.

THE HISTORY OF THE EARLY REPUBLIC 1789-1850

This course will analyze the History of the Early Republic in United States History covering the time period 1789-1850. The Eras that will be discussed are the Post-Revolution to Pre-Civil War. A variety of topics will be researched and emphasized; for instance: The Creation of the American Republic, The Crisis of the 1790's, The Jeffersonian Republic, Women's Experience in the Early Republic, Economic and Political Change in the 1820's, The Birth of the Second Party System, Slavery and Slaveholding, Reform and Abolition, The Pro-Slavery Argument and Manifest Destiny, The West/War/Sectional Conflict, and the Compromise of 1850. There is no textbook for this course but supplementary readings will be used to direct the class outline and structure. A variety of learning styles will be addressed pertaining to independent study, lecture, cooperative learning, and research paper writing.

HISTORY THROUGH FILM

This course will use film to approach significant problems in history. Students will examine historical events by watching, discussing, and writing about movies. The films studied in this course will include historical themes such as: slavery, apartheid, genocide, war, organized crime, and government corruption. This course will give students practical experience in critical analysis by evaluating full length feature films as historical evidence, use film as a means of motivating students to study selected topics in United States and global history, and improve students' research and writing skills through the assignment of critical essays on selected subjects that use film and traditional sources as evidence.

ARTS/VOCATIONAL

BEGINNING DRAWING

This course will form an introduction to drawing and painting and present a thorough guide for the beginner through the use of line, texture, value color shape and space. Media in drawing includes use of pencil, pen and ink, pastels and charcoal. Painting focuses on composition in oil, pastels, watercolor, acrylic and tempera. Students will interpret through observation, various landscape and still life subjects. Aesthetics in art history will be introduced through the use of slides and videos. Included are critiques of professional and student work.

INTERMEDIATE DRAWING

Anticipating that students will continue in this mode of inquiry, Intermediate Drawing will include deeper and more extensive exploration in this discipline. Each term builds a growing sophistication in the execution of drawing and painting, knowledge of the history of art as a means for individual expression applied to the individual student's course of study.

DRAWING/DESIGN

Students will use various media to develop craftsmanship and refine technique. Each student will create a portfolio of two-dimensional media. This class will count toward the Fine and Performing Arts graduation requirement. This course is repeatable.

ART 1 & 2

This course is an introduction to the elements and principles of design, elementary drawing and color. Students will intentionally use art material and tools effectively to communicate ideas, create artwork that uses organizational principles and functions to solve specific visual arts problems and reflect upon the characteristics and assess the merit of one's personal artwork.

MATHEMATICS

*** PRE - ALGEBRA IA & IB (Calculator allowed)**

A comprehensive program in first-year algebra is developed for students who are not mathematically oriented. Students learn basic algebraic concepts and apply them to expressions, equations, and functions.

(* This course is only offered through the Education 2020 on-line learning system and is limited to students who receive prior permission from the principal and/or math teacher and who are 2008 or 2009 graduates.)

ALGEBRA IA & IB (Calculator allowed)

A comprehensive first-year algebra program that is designed to meet current state benchmarks. Algebra 1A provides the foundations for functions and linear equations.

Algebra 1B (prerequisite – successful completion of Algebra 1A) examines polynomials, nonlinear functions, and data analysis. (Mandatory for graduates of 2011 or later)

GEOMETRY A and B

Prerequisite: Algebra IA. An informal approach is used to recognize geometric figures and apply concepts. Students learn to draw conclusions by practicing skills, applying theorems and postulates, experimenting and reasoning from given facts without writing formal proofs.

ALGEBRA IIA & IIB

Prerequisite: successful completion of Algebra IA & IB. A comprehensive program in second-year algebra developed for students who are mathematically oriented. Students use expressions, equations, functions and other algebraic concepts to solve problems and practice skills. (Calculator allowed)

MATH SKILLS REVIEW

This course is designed to review students' basic knowledge of mathematics. Students will work to enhance their fundamental skills of addition, subtraction, multiplication, division, exponents, fractions, percents, square roots, solving algebraic equations, and some basic Geometry formulas.

PERSONAL FINANCE

We all make personal financial decisions every day of our lives. Many of these decisions have a lasting impact. The primary goal of this course is to provide students with some basic personal finance tools and knowledge that will enable you to build the life you want. Math Elective.

THINKING MATHEMATICALLY

This course includes introductory treatments of sets, logic, number systems, number theory, and voting. Students will be exposed to these topics through a variety of real world projects and applications.

INTRODUCTION TO TECHNICAL DRAWING (DRAFTING)

Students will develop skills on the drafting board including freehand sketching, lettering techniques, basic technical drawing, basic orthographic projection, basic isometric drawing, and dimensioning. Introduction to Technical Drawing, not only prepares students for the drafting field but also teaches them life skills such as job searching, resume and portfolio building.

INTRODUCTION TO CAD (COMPUTER AIDED DRAFTING)

Students will use techniques learned in Intro to Technical Drawing and apply them toward drafting on a computer program, hence Computer Aided Drafting. Students will learn advanced techniques such as hatching, layers, and polar coordinates. In the worlds of Engineering, Manufacturing, and Architecture, many of the design plans are created using computer programs, the skills learned in CAD will help you be one step above the competition.

PATTERNS, PUZZLES, AND CRYPTOLOGY

Students will explore various mathematical patterns that occur in nature. This includes ideas related to the Golden Ratio and the Fibonacci sequence. Students will also explore various mind puzzles and enhance their logic and problem solving skills. Lastly the student will explore the field of cryptology, the study of "secret" codes, and finish the class by writing their own code and trying to break fellow classmates' codes.

HEALTH

HEALTH

The course is designed to help students examine their lifestyles, select goals and make plans to achieve and maintain optimum health. Health I focuses is on the areas of mental and social health including self-esteem, stress and building healthy relationships. It also includes studies relating to nutrition and digestion.

ODYSSEYWARE COURSES

These are in a separate book kept in the office.