

COURSE DIRECTORY

2015--2016

LAKIN HIGH SCHOOL

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ART

Art 1 – 1 credit

Art 1 is a prerequisite for all other art classes. This course will enable the students to become visually sensitive to the world they live in. Design is the basic foundation for all other art courses so drawing is the main skill that will be studied. Color and composition will also be researched. Brief introduction into ceramics (hand building), sculpture, art history, and painting will also be included in this curriculum, to broaden a student's experience with different mediums. This course is a year-long class and must be completed to progress to Art II or Ceramics I.

Art II – 1 credit

In this course the student expands his/her knowledge from Art 1 using the basic design techniques and processes they learned in Art 1 and expanding upon them. Art II students will be expected to use various medias to complete original works of art as well complete weekly sketchbook assignments throughout the year. Students will also expand their knowledge of different Art Elements and Art Principles and be able to use and/or identify them in works of art. Some subject areas will include portraits, still life, and landscape. Expectations for students' work will also be judged on a more comprehensive level. **Art 1 is a prerequisite.**

Art III & IV –1 credit each

Art III & IV students will take the skills they have developed in previous art classes and set semester goals for projects and medias they wish to explore each 9 weeks. All concepts/projects must correspond to the project list given by the instructor and the artist must present those choices to the instructor for prior approval. The student's own interpretation and treatment of the subject is encouraged. Students of this level will be expected to develop more complex artistic concepts and keep a detailed sketchbook. Expectations of students' work will also be judged on a more comprehensive level and quality of their work will be measured. Art IV students wishing to take Art related courses in college will also be encouraged to create a portfolio for application. It is recommended that students earn a grade of "C" or higher in Art II before enrolling in Art III. **Art II is a prerequisite for Art III, Art III is a prerequisite for Art IV.**

Ceramics I, II, III – 1 credit each

Ceramics I, II, and III is designed to provide creative experiences and extended knowledge of clay bodies, glazes, and techniques for working with ceramics. Hand building and wheel thrown techniques will be emphasized with introductions into mold making. Students will learn to throw clay on the wheel and construct various projects using slab, coil, and pinch methods.

Ceramics II & III students will set semester goals for projects they wish to construct. A few assignments will be given by the teacher but it is mostly independent projects chosen by the student and approved by instructor. Students wanting to take Ceramics in college will also be encouraged to develop a portfolio for application. It is recommended that students earn a grade of "C" or higher in Ceramics I before enrolling in Ceramics II. **Art 1 is a prerequisite for Ceramics 1. Ceramics 1 is a prerequisite for Ceramics II. Ceramics II is a prerequisite for Ceramics III.**

BUSINESS/COMPUTER STUDIES

Accounting – 1 credit

Double-entry, multi-journal accounting will be taught in this class. Students will gain the knowledge of balancing financial books, identifying different types of accounts, balancing bank statements, figuring payroll, and preparing numerous financial statements. Two or three simulation packets will be given throughout the year in order for the students to gain an "on-the-job" feeling of working as an accountant for a business. This class is designed for juniors and seniors

Computer Skills – 1 credit

This course is limited to sophomores, juniors, and seniors. This course will cover learning to use the Microsoft Office Suites. Word processing will be taught using Word, spreadsheets, with Excel, databases with Access, presentations with PowerPoint, and desktop publishing with Publisher. Organizing business documents, neatness and proofreading will be stressed.

WEB Publishing – 1 credit

This course will cover web publishing curriculum. Students will learn the basics behind web page design and how to create web sites. Software that will be learned include: Adobe, Dreamweaver, Photoshop, Illustrator, and Fireworks. Part of the class will include maintaining and improving the school web site. First year students will have the opportunity to create a personal web site. Computer skills is recommended but not required to enroll in this class.

ELECTIVE CLASSES

Driver Education – ½ credit

The course in driver education is not only to teach the students proper skills in driving a vehicle, but more importantly, the responsibilities involved in owning and/or operating a motor vehicle. The classroom portion of the driver's education requires that students complete all tests at an 80% or better. There is a fee set by the board of education to take this class. This class is offered in the summer only.

Career and Life Planning – ½ credit

A course that introduces students to the skills and strategies helpful in becoming more focused, productive individuals. This course will emphasize goal setting; decision making; managing time, energy and stress; and identifying alternatives and coping strategies. Students will also explore various career and life style choices. This course will be taken along with Human Growth and Development.

Human Growth and Development – ½ credit

A study of the process of human development from conception through old age with a particular emphasis on development during the elementary, middle and high school age periods of growth and development. This course will include the study of human growth and milestones achieved during a lifetime. This course will be taken along with Career and Life Planning.

Teaching as a Profession – 1 credit

Introduces students to the principles underlying teaching and learning, the responsibilities and duties of teachers, and the techniques of imparting knowledge and information. These courses typically expose students to classroom management, student behavior, leadership, and human relation skills. Assessment of student progress, teaching strategies and various career opportunities in the field of education will also be highlighted. This course is available to sophomore, junior and senior students.

Teaching Internship – 1 credit

Provides students with work experience in fields related to education. Goals are typically set cooperatively by the student, teacher, and employer. This course is available to junior and senior students. **Teaching as a profession is a prerequisite.**

Library Science – 1 credit

Library Science provides students with opportunities to participate in varied library duties and to develop well- rounded concepts of library science. Library work falls largely into the following units of study: cataloging and classification, circulation, mechanical preparation of materials, care of periodicals and newspapers, publicity work, clerical duties, reference duty, and audiovisual services. Placement may be in the high, middle or grade school library. **Seniors Only –**

Prerequisite GPA 2.0

Student Tutor – 1 credit

Students will be assigned to assist a classroom teacher at the grade or middle school. **Seniors Only.**

Prerequisite GPA 3.0

Office Aide – 1 credit

Students will work in the office at the high, middle and grade schools if a need exists. **Seniors Only. Prerequisite: By office recommendation only.**

FOREIGN LANGUAGE

Spanish I – 1 credit

The objectives of Spanish I are to be able to communicate in the language, be exposed to and learn a vocabulary of approximately 1,000 words, and to learn the customs and cultures of Spanish speaking countries with the focus on Mexico.

Spanish II – 1 credit

The objectives of Spanish II are to communicate in the language with an additional 500 words, and to learn additional verbs. Cultural awareness will be extended to include all Hispanic-speaking countries. **Spanish I is a prerequisite**

ENGLISH LANGUAGE ARTS

English I – 1 credit

In English I basic grammar and usage are reviewed. Spelling, vocabulary, and composition are stressed. Students are provided with a general background in literature with the study of such works as Romeo and Juliet, Great Expectations, The Odyssey, and To Kill a Mockingbird.

English II – 1 credit

English II will emphasize the short story, the drama, and the novel in literature. The students will be re- acquainted with the basic fundamentals of grammar. Practical writing will also be emphasized.

English III – 1 credit

This course is a two-part presentation. The first part is a continuation of the study of the English language. Writing abilities in all phases of usage in the classroom are stressed. Themes, essays, and short stories are studied, developed and written. The second section is a study of American Literature from the time of the Pilgrims to the present. A study of writing methods used by American authors coincides with the appreciation and study of the writers' works.

English IV – 1 credit

This course is a study of English literature from Beowulf to modern. Writing methods and techniques of English authors are studied and discussed. In addition, a short study of semantics and vocabulary is incorporated into the overall class study. Research paper will be covered.

College English Comp I, Comp II and Literature – 1 credit

This class can be taken for dual credit—high school and college. College tuition is charged for these classes for students who want college credit. Students might also have to buy a college English book. This course can be taken for high school credit only. Students taking this class for college credit will have to pay college tuition and purchase any college textbooks. **Prerequisite is sufficient score on the Compass Test.**

Media Technology – 1 credit

Students who enroll in this class will be responsible for submitting articles and photos to the Lakin Independent and creating the school's yearbook. While in this class, students will become familiar with the principles of journalism. They will become familiar with the inverted style of writing, layout design, and desktop publishing. Digital photography skills and basic computer graphics will also be covered. Freshmen are not allowed to take Journalism. Students must have a grade of C in their previous English class and/or have teacher permission to take the class.

MATHEMATICS

Introduction to Algebra – 1 credit

This class is a transitional math class that is designed to help students from a concrete concept of arithmetic to an abstract concept of algebra. In the first part of the class, the emphasis is put on basic arithmetic. As the year moves forward there is an increase exposure to algebra topics to prepare the student for Algebra I.

Algebra I – 1 credit

Emphasis will be on linear equations and functions, with special attention given to both symbolic and graphic representations. Data analysis will include linear regression for a data set. Students will be involved in solving linear equations and inequalities, both singularly and in systems. Facility with positive and negative real numbers as well as number properties is expected. Additional topics included are absolute value, exponents and radicals, factoring patterns, and solutions of quadratic equations. Emphasis on geometric issues will be included.

Intermediate Algebra & Geometry – 1 credit

This course will refine the mathematics skills learned in Introduction to Algebra and Algebra I. This course will be a preparatory class for the state assessment test. ACE activities will be used to stress problem solving, the writing and solving of equations, and linear functions. The Saxon Algebra I and the Geometry textbook, along with many other materials will be used to develop and reinforce the student's math skills. **Prerequisite is based on teacher's recommendation and successful completion of Algebra I.**

Geometry – 1 credit

This class will focus on the basics of Geometry. Emphasis will be place on geometry foundations, logic and reasoning, construction, coordinate geometry, congruency and similarity of triangles, polygons, trigonometry, circles, solids, and transformations. This course will also develop the use of Algebra I skills as applied to geometry. **Prerequisite is based on successful completion of Algebra I.**

Algebra II – 1 credit

Students will build on linear functions and equations from Algebra I, geometric functions from Geometry and extend proficiency in solution of quadratic equations. Students will be familiar with exponential and logarithmic equations and functions and be able to manipulate algebraic fractions. Continued emphasis will be placed on connections between symbolic, numeric and graphical representations. The use of matrices to solve systems of equations and to organize and analyze data as well as the fundamentals of probability and combinations will be included. Emphasis on geometric issues will be included. **Prerequisite is based on successful completion of Geometry.**

Advanced Algebra and Trigonometry – 1 credit

This is an advanced mathematics course in which many topics are covered. Students will continue their study of complex numbers, quadratic and exponential functions, logarithms, permutations, combinations, geometry, and probability. Logical reasoning is developed through geometric proofs. Trigonometry is studied in depth. Advanced algebra topics such as abstract equations, word problems, conic sections, and matrices are investigated. **Prerequisite is satisfactory completion of Algebra II.**

Calculus – 1 credit

Students will investigate the main topics of calculus - limits, derivatives (differentials) and integrals. All concepts required from algebra, geometry and trigonometry are reviewed before students put them to use in calculus. Many applications to calculus concepts will be studied as well. **Prerequisite is satisfactory completion of Algebra II, Advanced Algebra and Trigonometry or teacher's recommendation.**

College Algebra – 1 credit

College algebra can be taken for college credit and will be taken in the ITV (IDL) room. This course requires an adequate mastery of basic algebraic manipulations. This course is a survey of topics including functions and their graphs, polynomials, logarithms, and exponential functions and systems of equations. Students taking this class will have to pay for college tuition and a college textbook. **Prerequisite is based on successful completion of Algebra II and a sufficient score on the Compass test.**

MUSIC

Band – 1 credit

Band is open to any high school student who demonstrates an ability to perform on a wind or percussion instrument. Band students also participate in marching band, pep band, small ensembles and jazz ensemble. The band and small ensembles have consistently won top ratings at league and state music festivals. Students may receive one unit of credit for each year enrolled in this course.

Advanced Band – 1 credit

This class is intended for instrumental music students who wish to pursue opportunities beyond the typical offerings found in band class. These opportunities will include (but are not limited to): jazz or other ensemble performance practices, individual study on a primary or secondary instrument, music theory or music history. **Prerequisite is based on current enrollment in band or Director's approval.**

Vocal Music – 1 credit

Vocal Music is open to any high school student. Performances include, but are not limited to, Christmas concert, league and state music festivals, and spring concert. Students may receive one unit of credit for each year enrolled in this course.

Music Appreciation – 1 credit

Music Appreciation is open to any high school student. Students will be exposed to music through the study of its history, composers, performers, forms and styles. Opportunities will be presented to increase student's knowledge of music through listening, watching performances, and reading about many aspects of music.

PHYSICAL EDUCATION

Health – ½ credit

This class is required of all freshmen and is designed to teach the fundamentals of each basic area of health including the body parts and their processes, good grooming practices, basic first aid, nutrition, principles of mental hygiene, daily activities, drug abuse, and group health. Health is taken with Physical Education I. This class is required by all Freshmen.

Physical Education – ½ credit

This course includes instruction for basics in the following, but not limited to: volleyball, badminton, basketball, softball, and weightlifting. This class is taken along with the health course. This class is required by all Freshmen.

Strength Advance Training – 1 credit

The basic weightlifting skills are taught in this class. Students will learn the advantages that strength training will give them during athletic competition. Additional knowledge will be gained by knowing basic kinesiology and muscle groups.

SCIENCE

Physical Science – 1 credit

This class will be required of all incoming freshmen. It is an introductory course designed as a basic study of non-living matter and its behavior. Topics covered include matter, motion, heat and energy, chemical changes in matter, waves, sound, light, and electricity.

Environmental Science – 1 credit

An elective course that will integrate a number of different fields into an interdisciplinary study of the environment in which we live. Topics covered include the basic concepts that govern the natural world, how human activities affect the environment, including over-population, energy consumption, depletion of natural resources, and pollution. **Physical Science is a prerequisite.**

General Science – 1 credit

An elective course that will explore biology, physical science, and earth science. Topics covered include scientific method, cell biology, genetics, evolution, and ecology, diversity of life, the solar system, weather, and natural resources. **Physical science is a prerequisite.**

Biology – 1 credit

Biology is the study of life and living things as it relates to the biosphere. The course is designed to be primarily one of investigation into questions concerning our environment, our being, our growth and self-maintenance. An attempt is made to point out new technological advancement and man's awareness of his biological nature. **Physical science is a prerequisite.**

Anatomy & Physiology – 1 credit

A branch of biology dealing with the structures and functions of life in human beings. This course is designed to help students prepare for higher education and/or help them prepare to enter a health-related profession. The course will stress organization, structure, function, and pathology of systems within the body. **Biology is a prerequisite.**

Advanced Anatomy & Physiology – 1 credit

This course is a continuation of the regular A&P class and is designed to prepare students for higher education and/or help them prepare to enter a health-related profession. After completing study from the text during the first semester, the second semester is set up for students to gain health career experience through job shadowing and further independent study work with consideration to a chosen career field. **Anatomy & Physiology is a prerequisite.**

Chemistry I – 1 credit

This is a basic, but comprehensive, high school chemistry class including laboratory experiments. This is a more rigorous course, requiring additional mathematical experience, and a greater commitment from the student. Topics that are covered include: matter, atomic structure, the periodic table, chemical bonds, chemical reactions, stoichiometry and gases. This class will not only give an excellent knowledge of chemistry principles, but will also provide students a rigorous foundation and skills that are needed for college and highlight an understanding of the practical applications of chemistry to everyday life. **Biology and Algebra I (or teacher recommendation) are prerequisites.**

College Chemistry/Chemistry II – 1 credit

This is a more rigorous chemistry course, requiring additional mathematical experience, and a greater commitment from the student. Problem solving is the main emphasis in studying the topics covered in Chemistry II. Course includes the content described in the Chemistry I course with additional emphasis on advanced topics for the college bound or AP Chemistry students. This course is supported by extensive labs, some of which may require students to spend time outside the traditional school day to complete. The course covers significant figures, units, classification, the mole concept, stoichiometry, thermo chemistry, thermodynamics, kinetics, acids and bases, redox reactions, solutions, atomic structure, Lewis structures, molecular geometry, the gas laws, equilibrium and organic chemistry. Students taking Chemistry II for college credit will have to pay college tuition. All students will be expected to purchase the college textbook. Satisfactory completion of Chemistry I, Algebra I, Algebra II or be taking Algebra II concurrently and a sufficient score on the Compass Test is required.

Physics – 1 credit

This is a college prep class designed for students who have a curiosity about the physical world. This mathematically rigorous course is equivalent to an introductory college level physics course. Emphasis is placed on understanding the concepts of mechanics, thermodynamics, electricity, magnetism, optics, quantum energy, energy transfer, and energy conservation, developing laboratory skills and using scientific method to investigate, applying the ideas of physics to technology and developing an awareness of the impact of physics on society. Laboratory experiments are an integral component of this course. Completion of this course will prepare students for the introductory Physics at the college and/or AP Physics exam. Student electing this course should be highly motivated, self-disciplined and inquisitive. Satisfactory completion of Algebra I & II or taking Algebra II concurrently is required.

SOCIAL SCIENCE

World Geography – ½ credit

This course will use a regional approach to learn about the physical and cultural geography of the world. Individual and group activities will be used to enhance knowledge of the continents of the world, namely, North America, South America, Europe, Asia and Africa. This class will be taken along with world history.

World History – ½ credit

This course will cover a wide range of historical cultures giving students a background into the development of the western civilization. This class will be taken along with world geography.

Sociology – ½ credit

This class is a general introduction of human relationships and group behavior. Students will become familiar with the foundations of sociology and the sociological perspectives. Students will also be involved in discussion and projects that will confront social concerns that may be directly related to them. Topics may include alcohol and drugs, crime and criminals, gangs and violence, teenage pregnancy, prejudice and discrimination, and poverty. Other issues may be discussed as necessary. This course will be taken along with international relations. Sophomores and up only. This course will be taken along with Psychology.

Psychology – ½ credit

This course is designed to help student understand the behavior of individuals through various methods, principles and theories of psychology. Topics covered will include research methods, foundations of behavior, learning and memory, motivation and emotions, personality, states of consciousness, and psychological disorders and treatment approaches. This will be taken with Human Growth and Development. Sophomores and up only.

This course will be taken along with Sociology.

United States History – 1 credit

A survey approach to U.S. History will be used to link events across time using the following themes: Reform Movements, Values, Economics, Technology, Environment, Diversity, Unity and Conflict, American Culture, American Democracy, and U.S. and World relations. This course is a requirement for all juniors.

Advance Placement United States History – 1 credit

AP U.S. History is a college level course that encompasses U.S. history from colonial America to current times. It is an in-depth look at how America was formed to the modern society that we live in today. The AP U.S. History course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by a full year introductory college course. This course does not guarantee college credit but an exam that a student may choose to take can award them credit. The exam will cost \$91.00 which will be due prior to ordering of tests. There will also be a book fee of \$25.00 to help pay for supplemental materials used in studying for the AP test. If a student signs up for AP U.S. History, they will start their course work in the summer before their junior year with some summer readings. Acceptance in this course will be dependent on GPA (3.25) and/or instructor approval. This course can be taken for the junior U.S. History requirement.

American Government – ½ credit

Instruction is given on such material as the heritage of American government, comparative political and economic system, the constitution, national government (legislative, judicial, and executive branches), state and local government and taxation. This course is required for all seniors.

Economics – ½ credit

This class is designed to help students understand the operation of the economic system of the United States and prepare them to handle their own personal finances. Students will learn about economic indicators, supply, demand, pricing, investment opportunities, interest rates, and personal budgeting. This class is required of all seniors.

College American Government – ½ credit

This course gives attention to the constitutional principles and organization of the national government. Special emphasis is given to the development of the constitution, the organization of three branches of the federal government, the protection of civil rights and the role of political parties. The course is an issue oriented class, as issues pertain to the different phases of government. The class will work to improve the student's critical thinking ability, which is necessary to understand complex political policies. Students taking this class will have to pay college tuition and a college textbook. **Prerequisite is sufficient score on the Compass Test or teacher recommendation.**

VOCATIONAL EDUCATION

Beginning Cabinetmaking and Furniture Design – 1 credit

This course deals with both book related learning as well as hands on projects. Items covered are safety in the use of hand tools and machine tools, design, planning and construction of wood projects and related fields to woodworking. Two projects are required for this class—a beginning project made with hand tools and a major project of the students choosing (with approval of instructor).

Advanced Cabinetmaking and Furniture Design – 1 credit

This course will include hands on project learning as well as some research and writing. The student is expected to have a project of “advanced” quality. The project should include drawers and/or doors and other features that make the project challenging for the student. These students should be prepared for starting a project the first week of school, as soon as the safety tests are passed. **Cabinet and Furniture Design I is a prerequisite.**

Drafting I/Remodeling & Building Maintenance – 1 credit

This course is designed for the student interested in engineering, design, woodworking or metal fields, and art. It is good for students who need to understand the different ways of thinking. Areas of study are drafting equipment and use, sketching, lettering, orthographic projection, sectioning and computer aided design.

Advanced Drafting – 1 credit

The things learned in the beginning course are expanded on and the student will pick up other areas such as springs and fasteners, auxiliary views, and more time on the computer. The student is encouraged to bring projects in from outside to design and draw plans. **Drafting I/Remodeling & Building Maintenance is a prerequisite.**

Automotive Drive Train & Chassis Systems – 1 credit

Drive Train & Chassis is one of two automotive classes that introduce you to the entire modern car and light truck. It is offered alternating years with Automotive Engines and Related Systems. Topics include: safety, service information, electricity/electronics, fasteners, gaskets and seals, sealants, hand and power tools, clutches, manuals and automatic transmissions, drive shafts, transfer cases, differentials, transaxles, tires, suspension, steering, wheel alignment, brakes, heating and air conditioning accessories, wiring, and automotive computers. Class time is divided between the classroom and hands-on shop time. During shop time, students work on vehicles brought in to the shop. Students are encouraged to bring in projects.

Automotive Engines and Related Systems – 1 credit

Engines & Related Systems is one of two automotive classes that introduce you to the entire modern car and light truck. It is offered alternating years with Automotive Drive Train and Chassis Systems. Topics introduced include: safety, service information, electricity/electronics, fasteners, gaskets and seals, sealants, hand and power tools, engine fundamentals, design, construction, repair and performance, computer, fuel (gasoline and diesel), ignition, cooling lubrication, emission, starting, and charging systems. Class time is divided between the classroom and hands-on shop time. . During shop time, students work on vehicles brought in to the shop. Students are encouraged to bring in projects.

Advanced Auto Technology – 1 credit

Advanced Auto spends most of the class time in the shop. Students study in detail one of the following areas: Auto engine repair, electricity and electronics, performance and drivability, suspension and steering, auto brakes, manual drive trains and axles, or automatic transmissions and transaxles. The instructor will determine the areas of study. Students are responsible for bringing in shop projects to work on. **Automotive Engines and Related Systems or Automotive Drive Train and Chassis Systems is a prerequisite.**

Production Blue Print Reading/Welding Skills and Practices – 1 credit

Welding Skills & Practices provides students with experience in stick arc, oxy-acetylene, and MIG welding and oxy-acetylene and plasma cutting on mild steel. Topics covered include: safety, hand and power tools, welding equipment and accessories, joint design and welding procedures. Class time is divided between the classroom and hands-on experience in the shop. Since practice is crucial in becoming a proficient welder, a major part of the class is hands-on work.

Welding Applications – 1 credit

Welding Applications builds on the experience gained in Welding Skills & Practices. Safety procedures are reviewed, and students are introduced to: advanced MIG procedures, TIG welding of steel and aluminum, stick arc welding of cast iron, metal properties, and project planning, construction, and finishing. Class time is divided between the classroom and hands-on experience in the shop. Since practice is crucial and completion of a project is expected, a major part of the class is hands-on work. **Welding Skills and Practice is a prerequisite.**