

Leyton Public Schools Course Descriptions



2021-2022

GRADING

Kindergarten

5	Excellent
4	Successful
3	Average
2	Below Average
1	Not Successful

Grade 1

E	93%-100%
S+	86%-92%
S	77%-85%
S-	70%-76%
U	69%-Below

Grades 2 and 3

A	93%-100%
B	86%-92%
C	77%-85%
D	70%-76%
S	Met the standards of the class (Specials)
U	Did not complete the minimum requirements
F	69%-Below

Grades 4 through 12

A	93%-100%
B	86%-92%
C	77%-85%
D	70%-76%
F	69%-Below

ELEMENTARY SCHOOL CURRICULUM

LANGUAGE ARTS

Reading/Language Arts

Grade Level: K-6

Class Length: Year

Course #: 180000

Description: The Scott Foresman *Reading Street* curriculum series is designed to introduce high-quality and differentiated literature to each student through phonemic awareness, phonics, fluency, vocabulary, comprehension skills and strategies, writing, and spelling to prepare K-6 students for their state assessments in reading and writing.

MATH

Math

Grade Level: K-6

Class Length: Year

Course #: 180000

Description: The Saxon Math curriculum series uses incremental development where the topics are introduced to students in spaced steps. The allotted time between steps allows students to gain confidence at one level of difficulty before moving to the next level. In every lesson, previously learned information is continually reviewed and practiced. Previous Math concepts taught are embedded in each lesson, but grow in complexity, so learning is systematic and sequential. The lessons are taught in a highly structured and predictable format. Ongoing assessment and progress monitoring allows the teacher to quickly pinpoint areas of concern and effectively correct errors.

Saxon Math K–3 provides a hands-on approach where students are engaged in rich, meaningful activities. The lessons model in-depth plans for every lesson using proven instructional techniques. The lessons develop consistent math vocabulary and correct mathematical explanations that are key to the students' success in mastering the standards. Ongoing assessments allow for monitoring student progress.

Saxon Math Intermediate for Grades 4–5 uses instruction for each lesson that is written within the student textbook directly to students. The lessons provide daily practice and assessment; mathematical concepts are taught through informative lessons, diagrams, interactive activities, and investigations that build critical thinking as well as real-world problem solving skills. The lessons provide consistent and correct development of math vocabulary that allow the student's success in mastery. The focus of each lesson is on developing an understanding of how and why math works with an emphasis on mathematical thinking.

Saxon Math: Course 1 (Grade 6) offers daily reinforcement and building of basic skills and concepts, mental math, and problem solving strategies. New concepts expand students'

knowledge. Thinking skill questions, reading math hints, and math language tips help students understand how and why the math works. Students will explore math concepts using manipulatives and other materials. They will attain a depth of understanding on a particular concept by practicing it over time in a variety of ways.

Xtra Math (Math Intervention)

Grade Level: K-6

Class Length: Year

Course #: 180000

Description: Xtra Math is an online program that is designed to help students master basic math facts. Students work through all addition, subtraction, multiplication, and division facts. The goal of this intervention is for students to learn all facts and recall them within 3 seconds. Teacher recommendation is required.

SCIENCE

SCIENCE

Grade Level: K-6

Class Length: Year

Course #: 139930

Description: Science themes are covered through Amplify Science was designed to give students engaging, realistic experiences that mirror how scientists and engineers actually work. To do this, the Lawrence Hall of Science and Amplify created compelling print and digital resources that work seamlessly together to enable students' investigations and explorations. Amplify Science is organized around units where students are introduced to compelling phenomena and real-world problems, develop and strengthen claims by collecting evidence and testing assumptions, and apply their learning in new contexts. In each Amplify Science unit, students are asked to inhabit the role of a scientist or engineer in order to investigate a real-world problem. These problems provide relevant, 21st-century contexts through which students investigate different scientific phenomena.

Print and Digital Components:

The program includes instructional guidance and student materials for a year of instruction, with lessons and activities that keep students engaged every day.

SOCIAL STUDIES

Social Studies – Big Ideas

Grade Level: K-3

Class Length: Year

Course #: 180000

Description: The textbook is a Harcourt Social Studies curriculum that presents rich content, illustrations, graphics, and specialized features that connect to students' concrete experiences and refine their perceptions. These resources facilitate students' learning by exposing them to

information, images, and stories that reinforce the meaning of symbols, events, and places. By focusing students' learning, creating dynamic instructional experiences, and providing options for planned formal assessments, Harcourt Social Studies extend students' social understanding while laying a foundation for their civic efficacy.

Social Studies - Nebraska

Grade Level: 4

Class Length: Year

Course #: 180000

Description: This course of study is based on the book, *The Nebraska Adventure* by Jean A. Lukesh. Students learn Nebraska history, citizenship, government, economics, and geography. Through map activities, reenactments, and other hands-on activities, students create past-to-present life connections. Strong reference is made to the agricultural influence of Nebraska in our country.

Social Studies – States and Regions

Grade Level: 5th

Class Length: Year

Course #: 180000

Description: This course addresses the study of geography of the United States. Geography is the study of the Earth's surface and the ways people use it. Students also learn about the history, economics, government, and culture. Students learn how areas change over time. They find out how people change the places they live and are changed by these places. Throughout the study, students also discover the importance of place.

World History — The Early Ages

Grade Level: 6th

Class Length: Year

Course #: 180000

Description: This course of study follows the Harcourt textbook, *World History: Journey Across Time*. Students explore the story of the human past from prehistory through the Renaissance and Reformation. Geographical themes, concepts and skills are used to introduce the various eras and regions to be studied. The following skills are used as the students focus on the developments of the eastern hemisphere: cause and effect, compare and contrast, drawing conclusions, and time sequence.

PHYSICAL EDUCATION/HEALTH

Physical Education

Grade Level: K-6

Class Length: Year

Course #: 080125

Description: The students develop fine and gross motor movements. The students also develop skills for running, jumping, throwing, kicking, catching, punting, along with numerous

sports-related skills. The students are introduced to human anatomy and its functions. Life sports are introduced.

Health

Grade Level: 6

Class Length: Semester

Course #: 180000

Description: Harcourt *Health and Fitness* is a comprehensive program designed to help students develop positive behaviors and attitudes that will lead to a lifetime of good health. This course motivates students to take an active role in maintaining and improving their health.

SPECIALS

Computer Readiness Applications

Grade Level: K-2

Class Length:

Course #: 039930

Description: Students use simulations and graphic organizers to explore patterns of growth, illustrate and communicate original ideas and stories using digital tools and media-rich resources, use a variety of technologies with other students to produce a digital presentation or poster in a core content area, apply digital tools and resources to address a variety of tasks and problems, demonstrate the safe and cooperative uses of technology, communicate about technology using developmentally appropriate and accurate terminology, and demonstrate the ability to navigate in virtual environments such as simulation software, and websites.

Keyboarding Applications

Grade Level: 3-6

Class Length:

Course #: 033501

Description: Keyboarding is identified as a foundation knowledge and skill area for all students regardless of their career interest. This middle-level course is designed for students to learn touch typing techniques and proper keystroking while continuing to develop composition and proofreading skills as well as speed and accuracy. Students will demonstrate keyboarding proficiency in document formatting (letters, reports, and tables). Students will demonstrate acceptable ethical and social behavior and other digital citizenship attributes while developing keyboarding skills.

Music

Grade Level: K-4

Class Length:

Course #: 129930

Description: Students gain an understanding of the different elements of music including rhythm, melody, harmony, musical form and history in order for them to learn to appreciate and enjoy the unique human experience that music offers. Activities include singing, movement, playing simple rhythmic and melodic instruments and listening. In 4th grade, music students

learn keyboard and music notation by playing the melodica, which is a simple wind instrument with a piano keyboard attached. Leyton Elementary students perform two concerts per year in December and May.

Upper Elementary Music

Grade Level: 5-6

Class Length:

Course #: 129931

Description: Students learn skills that allow them to specialize in music in junior high and high school if they choose. Activities include more complex part singing and rhythmic activities, listening and evaluating music, and music history. Students participate in band and specialize on a woodwind, brass or percussion instrument. They continue to develop music reading and notation skills, while learning the fundamentals of tone production, technique and ensemble participation. Sixth grade students cover an in-depth unit on musical genres and American pop music, and an exploratory unit on guitar where students learn the basics of picking, strumming and reading notes, tablature and chord diagrams.

Art

Grade Level: K-6

Class Length: Year

Course #: 029930

Description: Elementary students receive hands-on experiences to produce art using the Elements and Principles of Art. The class is enhanced with art history and critique. Students use the creative process to develop critical thinking skills, hand-eye coordination, fine-motor skills, and the habits necessary for a safe and productive studio environment.

Library Media Skills

Grade level: K-6

Class Length: Year

Course #: 260400

Description: This course is designed to provide students with information and basic skills in using the resources of library media centers to locate, evaluate, and retrieve information. This course includes instruction in safe, efficient, and proper use of the Internet and copyright law.

INTERVENTION CLASSES

Title I

Grade Level: K-6

Class Length: Various depending on student's mastery

Course #: Various depending on content

Description: Title I is a federal program designed to provide assistance in learning to students identified through Title 1 protocol. Demonstration lessons are intermittent and presented on an irregular basis as a particular need becomes apparent. This arrangement lasts only until the student has mastered the specific objective.

Resource

Grade Level: K-6

Class Length: Year

Course #: Various depending on content

Description: Resource time is designed for students who are mentally, physically, socially, and/or emotionally delayed as verified through protocol in Rule 51. Students receive specialized instruction that adapts content, teaching methodology, and instruction delivery to meet the appropriate needs of each child. To be enrolled in this course, the student must have an IEP stating the need for Resource time. Students enrolled in Resource may also be taught content areas (reading, math, science) by a special education teacher.

JUNIOR HIGH CURRICULUM

LANGUAGE ARTS

English

Grade Level: 7- 8

Class Length: Year

Course #: 050802

Description: Students develop and utilize reading, writing, listening, and speaking strategies to read and understand 7th and 8th grade-level texts. They engage in independent, self-selected readings as well as teacher-assigned readings; read for pleasure, meaning, and analysis. Core texts are used to identify and analyze how an author uses literary elements and figurative language to effectively communicate. Emphasis is placed on reading and analyzing nonfiction texts to discern how an author uses text structure and text elements. Students use all phases of the writing process (generate, compose, revise, and edit) to compose descriptive paragraphs and essays in preparation for the NeSA-writing assessment. Expository paragraph structure with emphasis in incorporating text evidence and explanations as well as reading response journals complement their reading comprehension. Vocabulary development is enhanced with vocabulary lessons using words in context. A unit every week using Perfection Learning's *Words to Go!* also aids in 7th and 8th grade vocabulary development. Grammar instruction with the *Shurley English Method* reviews parts of speech, use of punctuation, and effective sentence construction as a means to increase verbal and written skills.

MATH

Pre-Algebra

Grade Level: 7

Class Length: Year

Course #: 112800

Description: This course is designed to meet the Nebraska Mathematics Standards Grades 7. The course includes but is not limited to the following topics:

1. Rational numbers and equations
2. Proportions and similarity
3. Linear and nonlinear functions
4. Two- and three-dimensional space
5. Data sets
6. Addition, subtraction, multiplication, and division of whole numbers, integers, decimals and fractions
7. Data collection and measures of central tendency.

Algebra ½

Grade Level: 8

Class Length: Year

Course #: 112801

Prerequisite: Pre-Algebra

Description: This course is designed to meet the Nebraska Mathematics Standards Grades 7 and 8. This course includes but is not limited to the following topics:

1. Multiple term equations
2. Exponents and signed numbers.
3. Probability
4. Geometric properties
5. Probability and statistics
6. Graphing, slope, midpoint and distance
7. Geometric shapes, area, surface area, and volume
8. Ratio, proportion, and probability.

SCIENCE

Science

Grade Level: 7-8

Class Length: Year

Course #: 130801

Description: Science themes are covered through Amplify Science was designed to give students engaging, realistic experiences that mirror how scientists and engineers actually work. To do this, the Lawrence Hall of Science and Amplify created compelling print and digital resources that work seamlessly together to enable students' investigations and explorations. Amplify Science is organized around units where students are introduced to compelling phenomena and real-world problems, develop and strengthen claims by collecting evidence and testing assumptions, and apply their learning in new contexts. In each Amplify Science unit, students are asked to inhabit the role of a scientist or engineer in order to investigate a real-world problem. These problems provide relevant, 21st-century contexts through which students investigate different scientific phenomena.

Print and Digital Components:

The program includes instructional guidance and student materials for a year of instruction, with lessons and activities that keep students engaged every day.

SOCIAL STUDIES

World Geography

Grade Level: 7

Class Length: Year

Course #: 150012

Description: Students focus on the five geographical themes (location, character, region, movement, and human-environmental interaction). Emphasis is placed on Europe, Asia, and Africa by exploring the history of the countries making up these continents and by viewing the current political landscape in these areas. Students gain empathy for other races, ethnicities, religions, and people of varying socio-economic backgrounds. Assessments include mapping, quizzes, tests, writing prompts, and projects.

American History

Grade Level: 8

Class Length: Year

Course #: 150013

Description: Students examine certain events from the Colonial to the Progressive Era studying experiences, current and past, that have had an impact on US history. Students also apply historical knowledge and skills to research and understand key concepts.

PHYSICAL EDUCATION

Physical Education/Health and Sports Practice

Grade Level: 7-8

Class Length: Year

Course #: 080126

Description: Students learn and develop skills for football, basketball, volleyball, and track and field. Students are taught the values of sport (discipline, cooperation, teamwork, and sportsmanship) and parts of human anatomy. They learn about the skeletal system and its functions. One day each week is spent on health and wellness curriculum. For students who are out for football, volleyball, basketball, and track, this course counts as sports practice.

EXPLORATORY CLASSES

Computer Applications

Grade Level: 7-8

Class Length: Semester

Course #: 033422

Description: This middle-level course is designed to emphasize digital citizenship, basic computer operations, word processing applications, spreadsheet applications, presentation applications, and technology communication tools. Students master keyboarding skills; compose, create, edit, and format word processing documents; organize and manipulate data in a spreadsheet; and prepare a formal presentation. Students complete activities in online applications such as Gmail, Google Docs/Sheets/Slides, and other Google features. Students also learn how to effectively explore careers while using the Nebraska Career Education Model and related resources. This course is a prerequisite to the high school CTE pathway, Information Technology. (See the high school course descriptions.)

Band

Grade Level: 7-8

Class Length: Year

Course #: 120500

Description: Students gain a deeper understanding of music through skill development on an instrument, including developing characteristic tone, reading and writing scales, technique, and

listening to and performing different genres of music. Junior high band performs two concerts per year at the High School site. All 7-8th grade students are required to take band **or** choir; they may participate in both.

Choir

Grade Level: 7-8

Class Length: Year

Course #: 120400

Description: Students gain a deeper understanding and appreciation of music through singing. Activities include more complex two and three part singing, tone production, reading music notation, singing in different languages and listening to and performing varied genres of music. Junior high choir performs two concerts per year at the High School site. All 7-8th grade students are required to take band **or** choir; they may participate in both.

Art

Grade Level: 7-8

Class Length: Semester, Year

Course #: 020800

Description: This is an exploratory art class that gives students fundamental exposure to many of the media, techniques, processes, and artistic styles that compose both two-dimensional and three-dimensional art. Projects completed during the class include: a drawing and shading unit, color and painting, perspective, three-dimensional sculpting, printmaking, and meditative processes such as zentangle and mandalas. All work for this class is completed during class time, so there will be little to no homework. Art history and theory are incorporated; therefore tests and quizzes are given.

INTERVENTION CLASSES

Title I

Grade Level: 7-8

Class Length: Year

Course #: Various depending on content

Description: Title I is a federal program designed to provide assistance in learning to students identified through Title 1 protocol. Demonstration lessons are intermittent and presented on an irregular basis as a particular need becomes apparent. This arrangement lasts only until the student has mastered the specific objective.

Resource

Grade Level: 7-8

Class Length: Year

Course #: Various depending on content

Description: Resource time is designed for students who are mentally, physically, socially, and/or emotionally delayed as verified through protocol in Rule 51. Students receive specialized instruction that adapts content, teaching methodology, and instruction delivery to meet the appropriate needs of each child. To be enrolled in this course, the student must have

an IEP stating the need for Resource time. Students enrolled in Resource may also be taught content areas (reading, math, life skills) by a special education teacher.

Leyton High School Credit

Credits are earned by passing courses. Each year-long course is worth 10 credits, and each semester-long course is worth 5 credits.

Graduation Requirements

40 credits of English

30 credits of Mathematics

30 credits of Science

30 credits of Social Science

35 credits of Vocational or CTE (career technology education) courses

10 credits of Fine Arts

10 credits of Physical Education

85 credits of additional electives or core courses

270 total credits in 9-12th grades to graduate

- Students, unless exempted, must be enrolled in eight classes each semester.
- Students may not take a second semester course until the first semester course has been completed.
- GPA calculations for Valedictorian and Salutatorian are made by averaging most grades from first semester 9th grade to second semester 12th grade. Courses where grades are not averaged are noted in the following descriptions.

HIGH SCHOOL CURRICULUM

ENGLISH

English 9

Grade Level: 9

Class Length: Year

Course #: 050021

Credits: 10 English

Prerequisite: None

Description: Students develop and utilize reading, writing, listening and speaking strategies to read and understand 9th grade-level texts. They are encouraged to engage in independent, self-selected readings, as well as teacher-assigned readings, and read for pleasure, meaning and analysis. Teacher-assigned readings focus on the study of genre with emphasis on the short story, fiction, and Shakespearean drama. Literary elements, figurative language, text structure, and text features are reviewed. Composing expository literary analysis essays is introduced including research-based writing in the form of a research paper in the second semester. Students continue to build on the writing process skills developed in 8th grade. Students continue to develop vocabulary using Townsend Press' *Building Vocabulary Skills, Third Ed*, and grammar instruction reviews.

English 10

Grade Level: 10

Class Length: Year

Course #: 050022

Credits: 10 English

Prerequisite: English 9

Description: Students develop and utilize reading, writing, listening and speaking strategies to read and understand 10th grade-level texts. They are encouraged to engage in independent, self-selected readings, as well as teacher-assigned readings, and read for pleasure, meaning and analysis. Teacher-assigned readings focus on the study of genre with emphasis on the short story, fiction, and Shakespearean drama. Literary elements, figurative language, text structure, and text features are reviewed. Composing expository literary analysis essays is introduced including research-based writing in the form of a research paper in the second semester. Students continue to build on the writing process skills developed in 9th grade. Reading response journals complement their independent reading. Students continue to develop vocabulary using Townsend Press' *Improving Vocabulary Skills, Third Ed*, and grammar instruction reviews.

English 11

Grade Level: 11

Class Length: Year

Course #: 050023

Credits: 10 English

Prerequisite: English 10

Description: Students develop and utilize reading, writing, listening and speaking strategies to read and understand 11th grade-level texts. They are encouraged to engage in independent, self-selected readings, as well as teacher-assigned readings, and read for pleasure, meaning and analysis. Teacher-assigned readings focus on the study of genre with emphasis on the short story, fiction, and Shakespearian drama. Literary elements, figurative language, text structure, and text features are reviewed. Composing expository literary analysis essays is introduced as students continue to build on the writing process skills developed in 10th grade. Students demonstrate the writing process by writing research papers. Students continue to develop vocabulary using Townsend Press' *Advancing Vocabulary Skills, Fourth Ed*, and grammar instruction reviews.

English 12

Grade Level: 12

Class Length: Year

Course #: 050024

Credits: 10 English

Prerequisite: English 11

Description: Students develop and utilize reading, writing, listening and speaking strategies to read and understand 12th grade-level texts. They are encouraged to engage in independent, self-selected readings, as well as teacher-assigned readings, and read for pleasure, meaning and analysis. Teacher-assigned readings focus on the study of genre with emphasis on the short story, fiction, and Shakespearian drama. Literary elements, figurative language, text structure, and text features are reviewed. Composing expository literary analysis essays is introduced including research-based writing in the form of a research paper in the second semester. Students continue to build on the writing process skills developed in 11th grade. Students continue to develop vocabulary using Townsend Press' *Advancing Vocabulary Skills, Fourth Ed*, and grammar instruction reviews.

Applied Communications (Speech)

Grade Level: 9-12

Class Length: Semester

Course #: 050501

Credits: 10 Speech

Prerequisite: none

Description: Students practice the following areas of development: public speaking competencies (varied and expressive vocal delivery; controlled, yet animated physical behavior; and adequate projection and expressiveness of the voice), intellectual competencies (developing research skills, improving critical thinking skills, and refining composition skills of organizing, structuring, revising information for an audience), and social competencies (adapting to audiences and situations; employing clear, vivid, and appropriate language; and nurturing empathetic listening skills). Units covered include the communication process, demonstrative speaking, informative speaking, persuasive speaking and speaking for special occasions. The second semester is tailored to each student's individual needs with an emphasis on preparing for NSAA competitive speech activities. Units include public speaking and oral interpretation.

English Composition I

Grade Level: 12

Class Length: Semester

Course #: 050100

Credits: 5 English

Prerequisite: English 11 and Minimum ACT Score of 19 in English and Reading

Description: This college course is taught on the Leyton High School campus via distance learning, and students earn credit for both Leyton High School and WNCC. Students create and develop effective thesis statements, write unified and well-supported essays, acknowledge the existence of different audiences, incorporate rhetoric, evaluate student/peer/professional essays, revise essays, apply research techniques using MLA form, and define conclusions through written and oral presentation.

English Composition II

Grade Level 12

Class Length: Semester

Course #: 050051

Credits: 5 English

Prerequisite: English Comp. I

Description: This course is taught on the Leyton High School campus via distance learning, and students earn credit for both Leyton High School and WNCC. Students will continue to expand on writing concepts from English Composition 1.

Public Speaking

Grade Level: 12

Class Length: Semester

Course #: 050502

Credits: 5 English

Prerequisite: English 11 and minimum ACT score of 19 in English and Reading

Description: This college course is taught on the Leyton High School campus, and students earn credit for both Leyton High School and Western Nebraska Community College. Students become acquainted with the importance of communication, the theory and practice of public speaking, and various fundamentals of effective speech delivery. Students also critically analyze the content, organization, and delivery of their own speeches and speeches of others. With practice, students become comfortable, competent, confident public speakers, as well as critical thinkers and listeners in public dialogue.

Literature

Grade Level: 10-12

Class Length: Semester

Course #: 050310

Credits: 10 Elective

Prerequisite: English 10

Description: The broad study of various types of literature helps students to appreciate the literature of our country. Authors include Cooper, Steinbeck, Frost, Dickens, and Lewis. A special emphasis is placed on the genre of mythology.

MATH

Algebra I:

Grade Level: 9-12

Class Length: Year

Course #: 110300

Credits: 10 Math

Prerequisite: 8th Grade Math or Applied Math

Description: Algebra I is a beginning algebra class and is designed to meet a portion of the Nebraska Mathematics Standards. Topics include, but are not limited to:

1. Investigate and solve linear equations, inequalities, and systems.
2. Investigate relations and functions, linear and non-linear.
3. Simplifying linear and non-linear expressions.
4. Solve non-linear equations.
5. Graph linear and non-linear equations and inequalities.

Algebra II:

Grade Level: 9-12

Class Length: Year

Course #: 110306

Credits: 10 Math

Prerequisite: Algebra I (*To be in Algebra II and Geometry simultaneously, must pass Algebra I with a B and get teacher approval.)

Description: Algebra II is an intermediate algebra class and is designed to meet a portion of the Nebraska Mathematics Standards. Topics include, but are not limited to:

1. Linear and non-linear equations, functions, and systems.
2. Exponents, radicals, and logarithms
3. Higher order equations and functions.
4. Matrices.
5. Probability and Statistics including data analysis.

Geometry

Grade Level: 9-12

Class Length: Year

Course #: 111200

Credits: 10 Math

Prerequisite: Algebra I (*To be in Algebra II and Geometry simultaneously, must pass Algebra I with a B and get teacher approval.)

Description: Geometry uses mathematical properties and algebra to solve problems and applications involving geometric shapes. This course is designed to meet the geometry portion of the Nebraska Mathematics Standards. Topics include, but are not limited to:

1. Properties of polygons and applications.
2. Similarity and congruence of triangle and polygons.
3. Logic and proof.

4. Right Triangles and basic trigonometry.
5. Coordinate geometry.
6. Properties and applications of circles.

Trigonometry

Grade Level: 9-12

Class Length: 1 Semester

Course #: 111600

Credits: 5 Math

Prerequisite: Algebra II, Geometry

Description: Trigonometry is an advanced class intended for college-bound students and covers the more advanced standards. Topics include, but are not limited to:

1. Right and non-right triangle trigonometry.
2. Circular functions and transforms of circular equations.
3. Applications for Trigonometry.
4. Trigonometric identities and proofs involving trigonometry.
5. Polar and complex coordinates.

Pre- Calculus

Grade Level: 11-12

Class Length: Semester

Course #: 111300

Credits: 5 Math

Prerequisite: Algebra II, Geometry

Description: Advanced mathematics is intended for college bound students and covers the more advanced standards. Topics include, but are not limited to:

1. Higher-order equations and functions (polynomial, exponential, rational).
2. Sequences and series which will include theoretical and applied uses
3. Rational equations and conic sections
4. Pre-calculus topics such as; derivatives, integrals, minimums and maximums of functions and area under a curve.
5. Matrices (operations and applications).

College Algebra

Grade Level: 11-12

Class Length: Semester

Course #: 111701

Credits: 5 Math

Prerequisite: Minimum ACT score of 22 in Mathematics

Description: This college course is taught on the Leyton High School campus via distance learning, and students earn credit for both Leyton High School and WNCC. Students will follow syllabi created by the college instructor.

Applied Mathematics

Grade Level: 9-12

Class Length: Year

Course #: 110501

Credits: 10 Math

Prerequisite: 8th Grade Math

Description: This class provides a broad overview of the Nebraska Mathematics Standards and assists students that are having difficulty transitioning into Algebra I. Topics include, but are not limited to:

1. Operations with all subsets of the real number system.
2. Geometry and Measurement topics like area, perimeter, volume, similarity, and properties of polygons.
3. Solving basic equations and applications for them.
4. Basic statistics and central tendency.

Business Math

Grade Level: 11-12

Class Length: Year

Course #: 111800

Credits: 10 Math

Prerequisite: None

Description: This course is designed to prepare students for various life roles by offering multiple opportunities to develop and use mathematical skills. The objectives of this course are to improve computational skills and apply them to personal business situations. Areas of study include mathematical problems dealing with interest, percentages, loans, installment buying, insurance, savings and investments, depreciation, markup and markdown, payroll, taxes, real estate, and retirement.

SCIENCE

Physical Science

Grade Level: 9

Class Length: Year

Course #: 130300

Credits: 10 Science

Prerequisite: none

Description: This course introduces students to the basic principles of physical and earth sciences including selected topics in chemistry and physics such as: motion, force, energy, work, waves, electricity and magnetism, matter, atomic structure, compounds, inorganic chemistry, plate tectonics, and the solar system. The course format includes reading, lecture, inquiry based discussion and problem-solving, and laboratory work.

Biology

Grade Level: 10

Class Length: Year

Course #: 130201

Credits: 10 Science

Prerequisite: General Science

Description: This course is an in-depth study of all areas of biologic sciences. Topics include structure and function of the cell, genetics, microbiology, evolution, anatomy, and ecology. The course format includes reading, lecture, inquiry based discussion and problem-solving, and laboratory work. Students participate in many hands-on and field-based laboratory activities such as microscope use and dissection.

Chemistry

Grade Level: 11-12

Class Length: Year

Course #: 130301

Credits: 10 Science

Prerequisite: Biology

Description: This course provides an in-depth study of the principles of inorganic chemistry including properties of matter and atomic theory, chemical reactions, stoichiometry, and laboratory procedures. The course format includes reading, lecture, inquiry based discussion and problem-solving, and laboratory work.

Physics

Grade Level: 11-12

Class Length: Year

Course #: 130303

Credits: 10 Science

Prerequisite: Biology, Algebra, Geometry

Description: This course provides an in-depth study of Newtonian physics as well as a general survey of Relativistic physics. General areas of study include concepts of mechanics, forces and motion, thermodynamics, light, sound, magnetism, and electricity. The course format includes reading, lecture, inquiry based discussion and problem-solving, and laboratory work.

Anatomy and Physiology

Grade Level: 11-12

Class Length: Year

Course #: 130210

Credits: 10 Science

Prerequisite: Biology

Description: This course covers the basics of human anatomy and physiology including anatomical terminology, basic biochemistry, cells and tissues, and the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary, and reproductive systems. Students participate in many animal dissections as well as a human cadaver lab at the end of the year. The course format includes reading, lecture, inquiry based discussion and problem-solving, and laboratory work.

Environmental Science

Grade Level: 11-12

Class Length: Year

Course #: 018049

Credits: 10 Science

Prerequisite: None

Description: This course uses scientific principles and practices to engage students to understand the interrelationships of the natural world, to identify and analyze environmental issues both natural and anthropogenic, to evaluate the relative risks associated with these problems, and to examine practical alternative solutions for resolving and/or preventing them. The course format includes reading, lecture, inquiry based discussion and problem-solving, and laboratory work.

SOCIAL STUDIES

World Geography and Cultures

Grade Level: 9

Class Length: Year

Course #: 150700

Credits: 10 Social Studies

Prerequisite: None

Description: This course introduces important concepts in physical geography with an emphasis on the world in spatial terms and orientation. Students study world regions, human characteristics, historical factors, and modern issues that shape the world around us, as well as units studying the United States, Canada, South America, Europe, Russia, North Africa and Southwest Asia, Sub-Saharan Africa, South Asia, East, and Southeast Asia, and Australia and the Pacific Realm. The Curriculum for this course is aligned to and supports the Nebraska Social Studies Standards.

American History

Grade Level: 11

Class Length: Year

Course #: 150820

Credits: 10 Social Studies

Prerequisite: none

Description: This course covers content from the Progressive Era to the New Century. Students develop and apply historical knowledge and skills to research, analyze, and understand key concepts of past, current, and potential issues and events at the local, state, national, and international levels. The curriculum for this course is aligned to and supports the Nebraska Social Studies Standards

American Government

Grade Level: 12

Class Length: Year

Course #: 151110

Credits: 10 Social Studies

Prerequisite: None

Description: This course includes the structure and function of our American government. The included topics range from the creation of our constitution, the branches of government, political institutions, the levels of government at the local, state, and federal levels, the

importance of civic participation in the democratic process and the rights and responsibilities of a US citizen. The curriculum for this course is aligned to and supports the Nebraska Social Studies Standards.

Sociology

Grade Level: 11-12

Class Length: Semester

Course #: 151300

Credits: 5 Social Studies

Prerequisite: None

Description: This course is transmitted through Distance Learning from Dalton. Students study human society, cultures, and social interactions. Topics include human behavior, structuralism, functionalism, social change, diversity and equality, and socialization.

Psychology

Grade Level: 11-12

Class Length: Semester

Course #: 151200

Credits: 5 Social Studies

Prerequisite: None

Description: This course is transmitted through Distance Learning from Dalton. Students study the mind and human behavior. Topics include history and theories, sensation, perception, learning, abnormal behavior, cognition, personality theories, and psychological disorders.

World History

Grade Level: 9-10

Class Length: Year

Course #: 150800

Credits: 10 Social Studies

Prerequisite: None

Description: Students study the history of events associated with the entire world. This course typically includes a historical overview of political, military, scientific, and social developments. It covers from 1500 C.E. to the present. The curriculum for this course is aligned to and supports the Nebraska Social Studies Standards.

History of Sports

Grade Level 10-12

Class Length: Semester

Course #:

Prerequisite: None

In this course, students will examine the development of sports throughout the history of the United States. Students will learn how sports impact the country through culture, economics, and politics. Students will use historical analysis to further understand the influence American sports have on society and examine the significance of gender, race, ethnicity, and social class with American sports.

History and Cinema

Grade Level 11-12

Class Length: 1 semester

Course #:

Prerequisite: taking or completion of American History course

Requirements: Signed parent/guardian permission slip in order to view film content

In this course, students will be provided with an intense look at how Hollywood has portrayed the accounts of true history throughout the seventy to eighty years. Students will research historical events and then evaluate a Hollywood film based on the respective events. Students evaluate the information based on accuracy, settings, events, and the actual outcome.

Holocaust History

Grade Level: 9-12

Class Length: Semester

Course #:152000

Credits: 5 Social Science

Prerequisite: None

Description: High school level course about the Holocaust, its roots and implications seek to explore the historical events before, during, and after the Holocaust and to examine this history as a watershed event with lessons and implications for humanity and contemporary society. This course follows a flexible chronology that broadly covers the panorama of the history of the Holocaust from a history of the Jewish faith through the centuries, through the rise of Adolf Hitler and the Nazis, through the persecutions of the 1930s, through the extermination of the Holocaust during World War II, and the aftermath to the present in dealing with other mass genocides.

Nebraska History

Grade Level: 9-12

Class Length: Semester

Course #:150810

Credits: 5 Social Science

Prerequisite: None

Description: The study of the history of events, individuals, groups, institutions, artifacts, ideas, and other phenomena associated with Nebraska.

WORLD LANGUAGES

Spanish I

Grade Level: 9-12

Class Length: Year

Course #: 060241

Credits: 10 World Language

Prerequisite: None

Description: This course, taught via Distance Learning, includes the study of speaking, listening, reading, writing, and the culture of speaking peoples. Students begin by learning vocabulary words and basic phrases. They continue with writing simple sentences and questions.

Spanish II

Grade Level: 10-12

Class Length: Year

Course #: 060242

Credits: 10 World Language

Prerequisite: Spanish I

Description: This course, taught via Distance Learning, enables students to understand vocabulary and phrases to recognize the main points in short texts, messages and announcements. Students communicate information in social exchanges on familiar topics.

PHYSICAL EDUCATION

Physical Education/Health

Grade Level: 9-12

Class Length: Semester, Year

Course #: 089930/080100

Credits: 5-10 Physical Education/Health

Prerequisite: None

Description: This course increases the physical competence, health-related fitness, self-responsibility, and enjoyment of physical activity for young people and includes the following: skill development, regular physical activity, improved physical fitness, support for other subject areas, self-discipline, improved judgment, stress reduction, strengthened peer relations, improved self-confidence and self-esteem, and goal setting.

Weights

Grade Level: 10-12

Class Length: Semester, Year

Course #: 080112

Credits: 5-10 Physical Education

Prerequisite: Physical Education/Health

Description: This course builds on beginning lifting techniques, safety, spotting methods, training methods, and workouts. Students progress into more advanced techniques and training methods as the year progresses. This progression will help the students continue into life-long strength training. Grades from this course are NOT averaged in calculations for Valedictorian and Salutatorian.

CAREER TECHNOLOGY EDUCATION (CTE) COURSES

Career Development

Grade Level: 9-12

Class Length: Semester

Course #: 320101

Credits: 5 CTE

Prerequisite: None

Description: Students learn and apply the career and college planning process using the Nebraska Career Education Model and related resources. Students will identify personal interests, skills, values, and then apply this knowledge to both academic and career decision-making. Students will demonstrate progress/proficiency in Nebraska Career Readiness Standards of Practice, which are current expectations in today's workplace. Students will activate the planning process by setting goals, developing and implementing a Personal Learning Plan, for effective transition from high school to most appropriate post-secondary education based on knowledge of self, career goal and financial considerations.

AGRICULTURE

Introduction to Agriculture, Food, and Natural Resources

Grade Level: 9-12

Class Length: Year

Course #: 011000

Credits: 10 CTE

Prerequisite: None

Description: Students must be enrolled in or completed with this course in order to be in FFA. This is an in depth study of the Vocational Agricultural Education Program as a whole. The leadership skill development includes participating in FFA chapter to; 1) develop those leadership skills to become a more productive person in society, 2) become a service to others, and 3) be a part of an organization for the benefit of the organization and what it stands for, not yourself. Develop an SAE project to begin their job skill development and record keeping skills. They will become more familiar with different agricultural career opportunities and skills associated with those career areas.

Plant Systems-Plant Science/Horticulture

Grade Level: 10-12

Class Length: Semester

Course #: 011007

Credits: 5 CTE

Prerequisite: Intro to Ag or 3.0 GPA

Description: This course involves the anatomy and physiology of a seed, growing plants, and mature plants such as flowers, grasses, succulents, and woody plants. Biotechnology use in the plant industry is explored. Students continue to develop skills in leadership, personal growth, and career success. They also expand and/or diversify their SAE records book projects.

Environmental and Natural Resources

Grade Level: 10-12

Class Length: Semester

Course #: 013000

Credits: 5

Prerequisite: Intro to Ag or 3.0 GPA

Description: Students increase awareness of the close ties among living organisms as well as natural and environmental concerns with the interrelationships of living organisms and the world around us. Students are exposed to careers related to natural resources systems. Students also look closely at Nebraska's natural resources and management techniques. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Wildlife Management

Grade Level: 10-12

Class Length: Semester

Course #: 013001

Credits: 5

Prerequisite: Intro to Ag or 3.0 GPA

Description: Increase awareness of the principles of wildlife management and conservation. Students will closely examine ecological concepts, habit management, wildlife species identification, and recreational opportunities that the environment and wildlife provide. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Floriculture

Grade Level: 10-12

Class Length: Semester

Course #: 012002

Credits: 5

Prerequisite: Intro to Ag or 3.0 GPA

Description: Students examine the knowledge and skills used to produce and use floral plants. Topics include flower types, plant identification, morphology, floral design, color theory, and design shapes. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Advanced Animal Science

Grade Level: 10-12

Class Length: Semester

Course #: 019930

Credits: 5

Prerequisite: Animal Science

Description: Best practices for the breeding and production of livestock are covered. This includes animal selection, breeds, health, and marketing of animal products. Students will also explore rights vs welfare of animals and animal behavior. They continue to develop skills in leadership, personal growth, and career success. They also expand and/or diversify their SAE projects.

Animal Science

Grade Level: 10-12

Class Length: Semester

Course #: 011004

Credits: 5 CTE

Prerequisite: Intro to Ag or 3.0 GPA

Description: Students explore the anatomy and physiology of small, large and exotic animals. The primary animal systems covered are reproduction, nutrition, and animal growth/development. Biotechnology use in the animal industry is explored. Students continue to develop skills in leadership, personal growth, and career success. They also expand and/or diversify their SAE projects.

Agribusiness Systems (Agribusiness 1st semester)

Grade Level: 11-12

Class Length: Semester

Course #: 011009

Credits: 5 CTE

Prerequisite: Intro to Ag or 3.0 GPA

Description: This course covers skills necessary for entry into employment or furthering education in an agricultural business. The course includes the study of business organizations, business structures, job responsibilities, job applications and interviewing, human relations, marketing, selling, displaying, using business machines, and management and entrepreneurship skills. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities. Students continue to develop skills in leadership, personal growth, and career success. They also expand and/or diversify their SAE projects.

Agricultural Sales and Communications (Agribusiness 2nd semester)

Grade Level: 11-12

Class Length: Semester

Course #: 011011

Credits: 5 CTE

Prerequisite: Intro to Ag or 3.0 GPA

Description: This course builds on the knowledge and skills covered in Agribusiness. Content includes business activities, agribusiness leadership and management in the free enterprise system, economic principles, budgeting, finance, risk management, business law, marketing and careers in agribusiness. Also included are entrepreneurship, business plan development, risk analysis, product/service promotion, and sales/marketing skill development. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Ag Leadership and Communications

Grade Level: 11-12

Class Length: Year

Course #: 019931

Credits: 10 CTE

Prerequisite: Intro to Ag or 3.0 GPA

Description: Students will explore and spend significant time on college preparation, scholarship applications, 7 Habits of Highly Effective Teens, FFA planning, state degree, school to work, and community service.

Nursery and Landscape

Grade Level: 10-12

Class Length: Semester

Course #: 012001

Credits: 5 CTE

Prerequisite: Intro to Ag or 3.0 GPA

Description: This course examines the knowledge and skills used to produce and use horticultural plants. Topics include plant identification, fertilization, pest management, soils, range judging, purpose of landscape designs, selecting sites to design, outdoor designs and greenhouse management. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Veterinary Science

Grade Level: 10-12

Class Length: Semester

Course #: 011015

Credits: 5 CTE

Prerequisite: Intro to Ag or 3.0 GPA

Description: Introduces students to the basics of animal medical care. Topics covered include disease, parasites, feeding, shelter, grooming, and general animal care. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Crop Management Agronomy

Grade Level: 9-12

Class Length: Semester

Course #: 011008

Credits: 5 CTE

Prerequisite: Intro to Ag or 3.0 GPA

Description: Students explore the best practices for the seed selection, planting, growth, and harvest in Agronomy, Floriculture, Nursery, and Landscape situations. Hydroponic practices are also covered. Students continue to develop skills in leadership, personal growth, and career success. They also expand and/or diversify their SAE projects.

HEALTH CARE

BNA - Basic Nursing Aid

Grade Level: 11-12

Class Length: Semester (year shared with the Medication Aide Class)

Course #: 077400

Credits: 5 High School / 4.5 College

Prerequisite:

- The student must be 16 years of age at the start of the course
- Able to speak and understand English
- Cannot be convicted of a crime involving moral turpitude.

Description: This course is designed to provide students with the essential knowledge and skills to deliver basic care to residents/clients of healthcare facilities. Topics include: resident rights, communications, safety, observations, reporting and assisting residents/clients in maintaining basic comfort and safety. Upon successful completion of the 80 hour course, the student will arrange to take a written or oral examination and will demonstrate skill competency as approved by the Nebraska Department of Health and Human Services. The course is designed to meet the training requirements of the federal and Nebraska state law for nursing assistants working in licensed facilities.

Medication Aid

Grade Level: 11-12

Class Length: Semester (year shared with the Basic Nursing Assistant Class)

Course #: 077401

Credits: 5 High School/ 3 College

Prerequisite: The student must:

- Be 18 years of age prior to completion of the course
- Must have successfully completed the Basic Nursing Assistant course
- Be able to speak and understand English
- Cannot be convicted of a crime involving moral turpitude

Description:

This course is designed to prepare the learner to assume the role and responsibilities of the Medication Aide. The curriculum is designed to meet the minimum basic requirements for medication aides in medication administration and pharmacology. Upon successful completion of the 40 hour course, the student will be eligible to sit for an exam approved by the Nebraska Department of Health and Human Services. Successful completion of this examination will approve the student to practice as a Medication Aide in Nebraska.

BUSINESS

Introduction To Business

Offered Each Fall Semester

Grade Level: 10-12

Class Length: Semester

Course #: 032300

Credits: 5

Prerequisite: None

Description: This course is designed to introduce students to the Business, Marketing, & Management Career Field, which focuses on organization, economics, management, marketing, financial management, & operations. Career opportunities & technology will also be used & discussed.

Personal Finance

Grade Level: 12

Class Length: Semester

Course #: 033000

Credits: 5

Prerequisite: None

Description: The goal of Personal Finance is to help students to become financially responsible, conscientious members of society. To reach that end, this course develops student understanding & skills in such areas as income, money management, budgeting, financial goal attainment, the wise use of credit, insurance, & investments. This college course is taught on the Dalton High School campus, and students have the option to earn credit for both Dalton High School and WNCC. College tuition payments are the responsibility of the student; any textbooks are purchased by Leyton Public Schools and remain the property of Leyton Public Schools.

Entrepreneurship

Offered Each Fall Semester

Grade Level: 10-12

Class Length: Semester

Course #: 032370

Credits: 5

Prerequisite: None

Description: This 1-semester class has an emphasis on the evaluation of the business skills and commitment necessary to successfully operate an entrepreneurial venture and review the challenges and rewards of entrepreneurship. The role of entrepreneurial businesses in the U.S. and the impact on the national and global economy will be explored. Work-based learning strategies could be included through the development of a business plan, operation of a school-based enterprise, or actual creation of a student-run business.

Marketing

Offered Each Spring Semester

Grade Level: 10-12

Class Length: Semester

Course #: 038100

Credits: 5

Prerequisite: None

Description: This course develops basic student understanding and skills in the function of marketing, including channel management, marketing-information management, market planning, product/service management, project management, promotion, pricing, and selling. Emphasis is placed on marketing strategies, the selling process, the use of data in marketing decision-making, and career opportunities in marketing. Fundamental economic concepts are also integrated in the course.

Marketing, Advanced

Offered Each Spring Semester

Grade Level: 10-12

Class Length: Semester

Course #: 038200

Credits: 5

Prerequisite: Marketing

Description: This course focuses on the language and issues of marketing with an emphasis on learning to develop responsive marketing strategies that meet customer needs, and marketing concepts and the role of marketing in the organization and society. Topics include market segmentation, product development, promotion, distribution and pricing, external environment, economics, politics, government, marketing research, international marketing, cultural diversity, ethics, project management and emerging promotional technologies.

Marketing Management

Offered Each Fall Semester

Grade Level: 10-12

Class Length: Semester

Course #: 038101

Credits: 5

Prerequisite: None, Marketing Helpful

Description: This course furthers student understanding and skills in various marketing functions, including channel management, marketing-information management, market planning, pricing, product/service management, and promotion. Marketing plans, branding, the product life cycle, project management principles and professional and ethical standards in marketing are also emphasized in this course.

Accounting I

Offered Each Fall Semester

Grade Level: 10-12

Class Length: Semester

Course #: 030501

Credits: 5

Prerequisite: None

Description: This 1-semester course covers a service business organized as a sole proprietorship, which will include accounting principles involved in the preparation & maintenance of financial records concerned with business management & operations. It is a comprehensive introduction to basic accounting including recording, summarizing & reporting, principles of income measurement & asset valuation, & accounting systems & controls. Students are exposed to careers in the accounting field & are given the opportunity to perform accounting applications using technology.

Accounting II

Offered Each Spring Semester

Grade Level: 10-12

Class Length: Semester

Course #: 030502

Credits: 5

Prerequisite: Accounting I

Description: This one-semester course covers concepts of a merchandising business, which will include accounting principles involved in the preparation & maintenance of financial records concerned with business management & operations. It is a comprehensive introduction to basic accounting including payroll, related career opportunities, application of generally-accepted accounting principles related to recording, summarizing & reporting, principles of income measurement & asset valuation, & accounting systems & controls. Students are exposed to

careers in & related to the accounting field & are given the opportunity to perform accounting applications using technology. Accounting 1 is a recommended prerequisite to this course.

Accounting III

Offered Each Fall Semester

Grade Level: 11-12

Class Length: Semester

Course #: 030503

Credits: 5

Prerequisite: Accounting II

Description: This is a one-semester course that includes partnership and corporate accounting, departmentalized accounting, adjustments in inventory control systems, and further enhancement of accounting skills. Accounting 1 and Accounting 2 are recommended prerequisites to this course.

Accounting IV

Offered Each Spring Semester

Grade Level: 11-12

Class Length: Semester

Course #: 030504

Credits: 5

Prerequisite: Accounting III

Description: This is a one-semester course that includes further enhancements of accounting skills in partnership and corporate accounting. These skills include examining different types of accounting principles within different organizations, adjustments in inventory control systems, and budgetary control systems. Accounting 1, Accounting 2, and Accounting 3 are recommended prerequisites to this course.

Advanced Accounting Work-Based Learning

Offered Each Semester

Grade Level: 12

Class Length: 1-2 Semesters

Course #: 320705

Credits: 5-10

Prerequisite: Accounting IV

Description: This is a class that provides the opportunity to connect what they learn in school with worksite application. Students are placed in an occupation that relates to the accounting area. The school and business community work together to plan activities that will enable each student to apply the knowledge, attitudes, and skills learned in the classroom to actual business situations and positions. This course must be a part of a Work-based Learning Program. The coordinator for this program must have the Supplemental Work-based Learning Endorsement. The Nebraska Department of Education recommendations for implementation of a high-quality work-based learning program are available for successful programming.

Business Communications

Offered Each Fall Semester

Grade Level: 12

Class Length: Semester

Course #: 030600

Credits: 5

Prerequisite: None, Information Technology II Helpful

Description: This course will emphasize creating cover letters and resumes, and practicing interviewing techniques for scholarship and employment opportunities. Students will reinforce communication skills needed in business, management and administrative occupations. Students will also be composing and reading written and digital communications, developing and delivering formal and informal presentations, applying active listening skills to obtain and clarify information, and exhibiting interpersonal skills to deal positively with diverse individuals. Students will use tables, charts and figures to support written and oral communication, and locate, organize and reference written information from various sources to communicate effectively.

Business Law

Offered In Class Or Independent Study As Needed

Grade Level: 11-12

Class Length: Semester

Course #: 030900

Credits: 5

Prerequisite: None

Description: In this course, students develop an understanding of laws and regulations that impact business. Topics included are contracts, environmental, and employment law. Students also acquire knowledge of business torts, sources of law, and the United States judicial system and legal procedures.

Management and Leadership

Offered Each Spring

Semester

Grade Level: 10-12

Class Length: Semester

Course #: 032802

Credits: 5

Prerequisite: None

Description: This course emphasizes the basic concepts of management and leadership within a business or organization. It addresses characteristics, organization, and operation of business as major sectors of the economy. Students will investigate management issues involved in planning, organizing, leading and controlling an organization. They will also acquire essential leadership skills in the areas of emotional intelligence: time management, stress management, professional growth and development, communication, and relationship skills.

INFORMATION TECHNOLOGY

Information Technology I

Grade Level: 9-12

Class Length: Semester

Course #: 270501

Credits: 5

Prerequisite: None

Description: Students will explore emerging technologies as it applies to their success for high school, college, and career. The focus will be on the importance of digital citizenship, professional communication practices, document processing, professional presentations, and spreadsheet and database applications used personally and professionally.

Information Technology II

Grade Level: 9-12

Class Length: Semester

Course #: 270502

Credits: 5

Prerequisite: Information Technology I

Description: This course will focus on skill development in spreadsheet, database, integration of applications utilizing advanced features, and exploring web technologies. A desktop publishing program will also be introduced and navigated.

Digital Media

Grade Level: 10-12

Class Length: Semester

Course #: 270602

Credits: 5

Prerequisite: None

Description: Students will create, design, and produce digital media including sound, video, and graphics. Emphasis will be placed on effective use of tools for interactive multimedia production including storyboarding, visual development, project management, and web processes.

Digital Design - Yearbook

Grade Level: 10-12

Class Length: Semester

Course #: 270611

Credits: 5 CTE

Prerequisite: Information Technology II or Similar Course (transfer students)

Description: Students will focus on developing advanced skills to plan, design, and create interactive projects using elements of texts, graphics, and digital imaging. These skills will prepare students for entry-level positions in the digital design field. Students will demonstrate proper use of copyright and fair use throughout the course.

Advanced Digital Design - Yearbook

Grade Level: 10-12

Class Length: Semester

Course #: 270613

Credits: 5

Prerequisite: Digital Design

Description: Students will focus on developing advanced skills to plan, design, and create interactive projects using elements of texts, graphics, and digital imaging. These skills will prepare students for entry-level positions in the digital design field. Students will demonstrate proper use of copyright and fair use throughout the course.

Foundations of Web Design (Offered Each Fall Semester, Every Other Year)

Grade Level: 10-12

Class Length: Semester

Course #: 270604

Credits: 5

Prerequisite: None, IT Applications II Helpful

Description: Students will demonstrate knowledge of web design and languages, including HyperText Markup Language (HTML) and Cascading Style Sheets (CSS) to create a content rich and visually pleasing website that captures and keeps visitors' interests. Focus will be given to effective page layout, image creation and manipulation, interactivity, content creation, and project management.

Web Design & Development (Offered Each Spring Semester, Every Other Year)

Grade Level: 10-12

Class Length: Semester

Course #: 270706

Credits: 5

Prerequisite: Foundations Of Web Design

Description: Students will demonstrate advanced knowledge of web design and languages, including HyperText Markup Language(HTML) and Cascading Style Sheets (CSS) to create a content rich and visually pleasing website that captures and keeps visitors' interests. Focus will be given to effective page layout, image creation and manipulation, interactivity, content creation, and project management. This course may be available for articulated or dual credit at a postsecondary institution.

Information Technology Fundamentals (Offered Each Fall Semester)

Grade Level: 10-12

Class Length: Semester

Course #: 270504

Credits: 5

Prerequisite: None, Information Technology II Helpful

Description: Students are introduced to the proper use of information technologies (IT). In addition, they will be introduced to hardware and software selection and use, technology resource support, and ethical issues. Students will investigate information technology careers and certifications in networking, programming, and IT support services. Units would include, but not be limited to, exploring concepts in networking, programming, and support services, computer hardware components and peripherals, system and application software, and impact of technology on society.

Foundations of Computing (Offered Each Fall, Every Other Year)

Grade Level: 10-12

Class Length: Semester

Course #: 270704

Credits: 5

Prerequisite: IT Fundamentals (can be taken the same semester as IT Fundamentals) or Digital

Media

Description: Designed to be the first computer science course for students who have never programmed before, Foundations of Computing is a starting point for Computer Science. Students will explore the impact of computing in society and build skills in digital citizenship and cybersecurity. Beyond learning the fundamentals of programming, students build computational-thinking skills by applying computer science to collaboration tools, modeling and simulation, and data analysis.

Computer Science Principles (Offered Each Spring, Every Other Year)

Grade Level: 10-12

Class Length: Semester

Course #: 270703

Credits: 5

Prerequisite: Foundations of Computing

Description: This course introduces students to the foundations of computer science with a focus on how computing powers the world. Along with the fundamentals of computing, you will learn to analyze data, create technology that has a practical impact, and gain a broader understanding of how computer science impacts people and society.

Cybersecurity (Offered In Class or Independent Study)

Grade Level: 11-12

Class Length: Semester

Course #: 270707

Credits: 5

Prerequisite: Information Technology Applications II

Description: Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Students will solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior.

INDUSTRIAL TECHNOLOGY

Woods 1

Grade Level: 9-12

Class Length: Semester/ Year

Course #: 101920

Credits: 5/ 10 CTE

Prerequisite: none

Description: Students will be introduced to the basic manufacturing process in wood manufacturing.

Woods 2

Grade Level: 10-12

Class Length: Semester/ Year

Course #: 101921

Credits: 5/ 10 CTE

Prerequisite: Woods 1

Description: Students will utilize tools and equipment to produce parts and projects within specifications using wood.

Woods 3

Grade Level: 11-12

Class Length: Semester/ Year

Course #: 101922

Credits: 5/ 10 CTE

Prerequisite: Woods 2

Description: Students will use advanced tools and equipment (CNC) to produce parts and projects to industry standards and specifications.

Welding 1

Grade Level: 9-12

Class Length: Semester/ Year

Course #: 101930

Credits: 5/ 10 CTE

Prerequisite: none

Description: Students will be introduced to the basic manufacturing processes in welding manufacturing.

Welding 2

Grade Level: 10-12

Class Length: Semester/ Year

Course #: 101940

Credits: 5/ 10 CTE

Prerequisite: Welding 1

Description: This course is a continuation of learning and skills of the welding industry.

Welding 3

Grade Level: 11-12

Class Length: Semester/Year

Course #: 101941

Credits: 5/10 CTE

Prerequisite: Welding 2

Description: Students will produce projects and welds to specifications and work towards welding certifications.

Electricity

Grade Level: 9-12

Class Length: Semester

Course #: 100405

Credits: 5

Prerequisite: none

Description: Comprehensive courses provide an overview of the theory, terminology, tools, and practical experience in the skills needed for a career in the electrical field. This course typically includes circuitry, safety, and the National Electrical Code. This course covers skills that are involved in building circuits, wiring residential, and commercial and/or industrial buildings. Installing lighting, power circuits, cables and estimating job costs may be included.

Architectural Design

Grade Level: 9-12

Class Length: Semester

Course #: 100140

Credits: 5

Prerequisite: none

Description: This course provides students with an introduction into Computer- Aided - Drafting (CAD) and the foundation for architectural design.

Drafting and Design

Grade Level: 9-12

Class Length: Semester

Course #: 100130

Credits: 5

Prerequisite: none

Description: This course builds the skills necessary to understand what is being communicated through drawings and documents, and in turn, convey ideas, duties and tasks to others in a form representing the industry. Students will use and follow industry specific verbal and visual skills to accomplish workplace/jobsite communications. Students will review traditional project phases and various roles within them to plan for and implement phases within a project. Students will develop preliminary drawings that will be used in design and manufacturing. Computer- Aided Drafting/design (CADD) may be used.

Small Engines

Grade Level: 9-12

Class Length: Semester

Course #: 109930

Credits: 5

Prerequisite: none

Description: Students will understand the necessities of owning a vehicle, basic upkeep and maintenance, simple engine processes. The class will include hands on work.

PERFORMING ARTS

Band

Grade Level: 9-12

Class Length: Semester, Year

Course #: 120500

Credits: 5-10 Elective

Prerequisite: 2 Years of Band or Teacher Approval

Description: Students enrolled in high school band continue their skill development through ensemble participation and gain more advanced technique, tone production, and range on their instrument. Relevant music theory and history lessons are included. They learn music theory and history. The high school band typically performs in two parades, a Veterans Day performance, the conference band clinic every other year, two adjudicated music contests and two concerts. Students can also audition for All-State music and various other honor bands. Second semester, students have the opportunity to prepare instrumental solos and small groups for performance at the MAC and District music contests.

Choir

Grade Level: 9-12

Class Length: Semester, Year

Course #: 120400

Credits: 5-10 Elective

Prerequisite: None

Description: Students enrolled in high school choir will continue their skill development through ensemble participation and learn more advanced vocal technique, tone production and range, foreign language lyrics, music theory, music history, and sight singing. The high school choir typically performs at the Veterans Day breakfast, Conference choral clinic every other year, two adjudicated music contests, and two concerts. Students can also audition for All-State music and various other honor choirs throughout the year. Second semester, students will have the opportunity to prepare vocal solos and small groups for performance at the MAC and District music contests. Students may also participate in show choir second semester if they choose.

Individual Performance

Grade Level: 9-12

Class Length: Semester

Course #: 12600 / 120650

Credits: 5

Prerequisite:

Description: Course Description:

This is an independent study course for music. Students may use this time to develop instrumental or vocal skills, learn a new instrument, or study music theory, composition, or music technology. A portion of this class will involve reading music and furthering one's knowledge of music terminology and musical forms.

Art I

Grade Level: 9-12

Class Length: Semester, Year

Course #: 020100

Credits: 5-10 Elective

Prerequisite: None

Description: Students explore various media, techniques, processes, and artistic styles that compose both two-dimensional and three-dimensional art. The subjects of each project are

choice-based. All work for this class will be completed during class time, so there is little to no homework. Art history and theory will be incorporated, therefore test and quizzes are given.

Art II

Grade Level: 10-12

Class Length: Semester, Year

Course #: 020200

Credits: 5-10 Elective

Prerequisite: Art I

Description: Students use prior knowledge and experience to continue their exploration of media, techniques, processes, and artistic styles that compose both two-dimensional and three-dimensional art. Projects are choice-based for each student. All work for this class is completed during class time, so there is little to no homework. Art history and theory are incorporated, therefore tests and quizzes are given.

Art III

Grade Level: 11-12

Class Length: Semester, Year

Course #: 020300

Credits: 5-10 Elective

Prerequisite: Art II

Description: Students will begin to refine their artistic interests, processes, and artistic style to create art at an advanced level. They continue to create both two-dimensional and three-dimensional art.

Art IV

Grade Level: 12

Class Length: Semester, Year

Course #: 020400

Credits: 5-10 Elective

Prerequisite: Art III

Description: Students continue to refine their artistic interests, processes, and artistic style to create art at an advanced level. They focus their skills and interests to create specialized art in their choice of media.

MISCELLANEOUS COURSES

ACT PREP

Grade Level: 10-12

Grade Length: Semester

Course #: 300100

Credits: 5 Elective

Description: This course is an online curriculum (*OnToCollege with John Baylor*) that helps students improve their performance on ACT tests. Students have the opportunity to work through sample questions for English, Math, Reading, Science and Writing. Grades from this course are NOT averaged in calculations for Valedictorian and Salutatorian.

Odysseyware Language

Grade Level: 9-12

Grade Length: Semester, Year

Course #: 190515-1

Credits: 5-10 English

Prerequisite: None

Description: *Odyssey Language* is an online curriculum that guides students on a self-paced schedule and may be used as a credit recovery option. Students explore the work of various writers of different time periods through an historical lens. Students study a range of classic and contemporary literature to convey themes of American History, Natural History, World Civilization, and Air and Space. Students also develop their writing skills while producing informative, argumentative, and narrative compositions. Supported by a balance of fictional and informational texts, students learn and practice close reading, modeled reading, writing, speaking, and listening strategies. Teacher recommendation is required.

Odysseyware Math

Grade Level: 9-12

Grade Length: 2 Semester, Year

Course #: 191115-1

Credits: 5-10 Math

Prerequisite: None

Description: *Odyssey Math* is an online curriculum that guides students on a self-paced schedule and may be used as a credit recovery option. This course focuses on number skills and numerical literacy. Students gain solid experience with number theory and operations, including decimals and fractions. This course also integrates geometric concepts and skills throughout the units, teaches measurement skills, and introduces students to statistical concepts. Teacher recommendation is required.

Resource

Grade Level: 9-12

Grade Length: Semester, Year

Course #: 260300-5

Credits: 0-10

Prerequisite: IEP

Description: This is a full class period where students identified with a learning disability (verified through protocol in Rule 51) work on achieving their IEP goals and complete assignments from their general education classes with the assistance of a special education teacher. Students receive specialized instruction that adapts content, teaching methodology, and instruction delivery to meet the appropriate needs of each child. Students enrolled in Resource may also be taught content area (reading, math, life skills) by a special education teacher for high school credit. Grades from this course are NOT averaged in calculations for Valedictorian and Salutatorian.

Miscellaneous Online/Distance Learning Courses

Grade Level: 11-12

Class Length: Semester, Year

Course #: Various depending on content

Credits: 5-10 Elective

Prerequisite: None

Description: Students are welcome to take online courses and /or Distance Learning courses from any high school or college, earning college credit and/or Leyton High School credit as appropriate. Students are encouraged to find courses of interest according to their career plans. Any college tuition and fees are the responsibility of the student. Administrative approval is required. Grades from some courses are **NOT** averaged in calculations for Valedictorian and Salutatorian.