



2021-2022 CURRICULUM GUIDE

ARTHUR LOVINGTON ATWOOD HAMMOND HIGH SCHOOL

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YOUR INDIVIDUALIZED FOUR-YEAR PLAN

ALAH CLASS of _____

NAME _____

CAREER GOAL _____

FRESHMAN YEAR

Required: English, Math, Science, PE

1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

7 _____

8 _____

SOPHOMORE YEAR

Required: English, Math, Science, PE, World History

1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

7 _____

8 _____

JUNIOR YEAR

Required: English, Math, PE, US History

1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

7 _____

8 _____

SENIOR YEAR

Required: English, PE, Consumer Ed, Civics

1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

7 _____

8 _____

Graduation Requirements

To graduate, students must earn 24 credits

Class of 2022

English	4 credits	PE	4 credits
Science	2 credits	Health	½ credit
Math	3 credits	Drivers Ed	½ credit
U.S. History I	1 credit	Consumer Ed	½ credit
U.S. History II	1 credit	Computers	½ credit
Civics	½ credit		

Pass Constitution Test
Service Learning 8 hours

Class of 2023, 2024, and 2025

English	4 credits	PE	4 credits
Science*	2 credits	Health	½ credit
Math	3 credits	Drivers Ed	½ credit
World History	½ credit	Consumer Ed	½ credit
U.S. History	1 credit	Civics	½ credit

*one year of Biology required

Pass Constitution Test
Service Learning 8 hours

COURSE OFFERINGS

AGRICULTURE

Introduction to Agriculture Industry
 Plant & Animal Biology
 Agricultural Mechanization and Technology
 Agribusiness Management
 Basic Horticulture

ART

Art I, II, III, IV
 Photography

BUSINESS

Accounting I, II
 CEO
 Computer Concepts
 Cooperative Education
 Interactive Media
 Marketing

ENGLISH

English I, II, III, IV
 Journalism
 College Composition*
 Literature*
 Intro to Speech Communications*
 Creative Writing
 Best Sellers

FAMILY & CONSUMER SCIENCES

Intro to FACS I & II
 Clothing and Textiles
 Child Development I & II
 Child Day Care Services
 Parenting
 Human Development
 Housing and Living Environments
 Foods and Nutrition I & II
 Culinary Arts

INDUSTRIAL TECHNOLOGY

Beginning Drafting
 Energy Utilization
 Transportation
 Production

Electrical Trades I
 Beginning Construction I
 CAD I
 CAD II

MATH

Double Block Algebra I
 Algebra I, II
 Intermediate Algebra
 Basic Geometry
 Geometry
 Business Math
 College Prep Math (formerly Transitional Math)
 Pre-Calculus*
 Calculus*
 Inferential Probability and Statistics*

MUSIC

Band
 Percussion Studies
 Color Guard
 Choir
 Music Appreciation

PHYSICAL EDUCATION

Physical Education
 Health
 Driver Education

SCIENCE

Survey of Science
 Earth Space Science
 Biology
 Zoology*
 Chemistry*
 Advanced Chemistry*
 Physics*
 Environmental Life Sciences*
 Anatomy and Physiology*

SOCIAL STUDIES

Civics
Consumer Education
Current Events
Economics
Leadership Skills
Psychology
Sociology/Sociology DC*
U.S. History
World Geography
World History
History of the US to 1877*
History of the US since 1877*

SPANISH

Spanish I, II, III, IV*

DUAL CREDIT

Automotive Technology (Lake Land College)
Health Occupations Program (Lake Land College)
Pre-Calculus (Lake Land College)
Inferential Probability and Statistics (Lake Land College)
Electrical Trades I (Lake Land College)
Drafting/CAD I (Lake Land College)
English Composition (EIU)
Literature (Stories Matter) (EIU)
Introduction to Speech Communications (EIU)
Environmental Life Sciences (EIU)
History of the US to 1877 (EIU)
History of the US since 1877 (EIU)
Sociology (EIU)

Blended Learning

Blended learning courses at ALAH will be using a combination of best practices, including online learning and face-to-face instruction. Additionally, face-to face, small group, and large group settings will offer opportunities to build and maintain a learning community that optimizes the time and place when students learn. In an ideal blended learning environment, students have some control over the pace, place, and path of their coursework. Blended classes offered are English II, Honors English III, English IV, Accounting, Sociology DC, US History DC, Sociology DC.

Agriculture

Introduction to Agriculture Industry

Credit: 1

Level: 9, 10, 11, 12

This introduction course provides an opportunity for students to learn how the agricultural industry is organized; its major components; the economic influence of agriculture at state, national and international levels; and the scope and production applications. Basic concepts in animal science, plant science, soil science, horticulture, agricultural resources, agribusiness management and agricultural mechanics are included. Participation in FFA and Supervised Agricultural Experience (SAE) projects are an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Plant & Animal Biology

Credit: 1

Prerequisite: Intro to Ag

Level: Grades 10, 11, 12

The relevance of biology is conveyed and reinforced through plants and animals by enhancing literacy in science and scientific processes. Student learning is extended through scientific inquiry strategies including lab-oriented methods focusing on observational skills, experimental methods, and deductive reasoning. Topics include cell biology, anatomy, genetics, reproduction, heredity, physiology, growth, management and agroecology of plants and animals. Participation in FFA and Supervised Agricultural Experience (SAE) projects are an integral course component for leadership development, career exploration and reinforcement of academic concepts. Counts as high school science requirement.

Basic Horticultural Science

Credit: 1

No prerequisite

Level: Grades 10, 11, 12

This course is designed to introduce students to the horticulture industry and provide them with basic plant science knowledge that can be further developed in advanced horticulture courses. Major units of instruction include horticulture careers, plant anatomy, seed germination, plant propagation, growing media, pest management, hydroponics, identifying horticultural plants, growing greenhouse crops, and floral design. Improving computer and workplace skills will be a focus. Participation in FFA and Supervised Agricultural Experience (SAE) projects are an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Agricultural Mechanization and Technology

Prerequisite: Intro to Ag or consent of instructor

Level: Grades 11, 12

This course will concentrate on expanding student's knowledge and experiences with agricultural mechanics technologies utilized in the agricultural industry. Units of instruction included are: welding, internal combustion engines, and employability skills. Careers of agricultural construction engineer, electrician, plumber, welder, equipment designer, parts manager, safety inspector, welder, and other related occupations will be examined. Improving workplace and computer skills will be a focus. Participation in FFA and Supervised Agricultural Experience (SAE) projects are an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Agribusiness Management

Credit: 1

Prerequisite: Plant & Animal Biology

Level: Grades 11, 12

This capstone course is designed to develop student skills in the areas of advanced agricultural business procedures, establishment of agricultural business, marketing and advertising, and sales techniques and strategies. Product knowledge is stressed as it relates to the regional agricultural economic base. Participation in FFA and Supervised Agricultural Experience (SAE) projects are an integral course component for leadership development, career exploration and reinforcement of academic concepts. This course satisfies the student's State of Illinois Consumer Education requirement.

Art

Art I

Credit: 1

Prerequisites: None

Level: All

This is an introductory course that covers basic elements and principles of art. Students will have the opportunity to create artworks in a variety of media and will learn how to use the tools and processes necessary to produce both 2-dimensional and 3-dimensional work. Drawing skills are emphasized in this course. Students will be required to complete weekly workbook and sketch book assignments.

Art II

Prerequisites: Successful completion of Art I or consent of teacher

Level: Grades 10, 11, 12

This course is a continuation of Art I. More emphasis will be placed upon the craftsmanship of the artwork created by the students. Students will also be expected to explore a broader variety of media for the creation of art than they did in Art I. Students will be required to complete a weekly sketchbook.

Art III

Credit: 1

Prerequisite: Art II

Level: Grades 11, 12

This course will emphasize material techniques, processes, and other ideas fundamental to drawing, painting, printmaking and sculpture processes. Students will be required to keep a weekly sketchbook.

Art IV

Credit: 1

Prerequisite: Art III and teacher consent.

Level: Grade 12

This course is for the student who is interested in an art career or in an art major or minor in college. Students will assemble a portfolio for critique. Students will also work in areas of interest to improve and perfect their technique. Students will be required to keep a weekly sketchbook.

Photography I

Credit: 1

Prerequisite: Art I with at least a B average.

Level: Grades 10, 11, 12

Students are required to have a year of art with at least a B average. Topics will include the basic aspects of photography, proper photo composition, photography as a communication and artistic tool, digital photography and imaging, basic computer graphics using a photo editing program, career opportunities in photography, and future trends in photographic technology.

Business

Accounting I

Credit: 1

Prerequisites: None

Level: Grades 10, 11, 12

This is a skill level course that is of value to all students pursuing a strong background in business, marketing, and management. This course includes planned learning experiences that develop initial and basic skills used in systematically computing, classifying, recording, verifying, and maintaining numerical data involved in financial and product control records including the paying and receiving of money. Instruction includes information on keeping financial records, summarizing them for convenient interpretation, and analyzing them to provide assistance to management for decision making. Accounting computer applications are integrated throughout the course where applicable. In addition to stressing basic fundamentals and terminology of accounting, instruction provides initial understanding of the preparation of budgets and financial reports, operation of related business machines and equipment, and career opportunities in the accounting field. Processing employee benefits may also be included. Practice sets with business papers may be used to emphasize actual business records management.

Accounting II

Credit: 1

Prerequisite: Accounting I

Level: Grades 11, 12

Accounting II is a skill level course that builds upon the foundation established in Accounting I. This course is planned to help students to develop deeper knowledge of the principles of accounting with more emphasis being placed on financial statements and accounting records. It is a study of previously learned principles as they apply to the more complicated types of business organizations: partnerships, corporations, branches, etc. The student may become familiar with such specialized fields of accounting as cost accounting, tax accounting, payroll accounting and others. Simulated fields of accounting as cost accounting, tax accounting, payroll accounting and other simulated business conditions may be provided through the use of practice sets. Skills are developed in the entry, retrieval, and statistical analysis of business data using computers for accounting business applications. This course provides a technical background for college-bound students who plan a business curriculum as well as those who wish vocational preparation.

Computer Concepts

Credit: .5

Level: All; Grade 9 or 10 suggested

This course will use Microsoft software and Google Apps. Students learn procedures and techniques in Word, Excel, and Power Point including Google Docs, Sheets, and

Slides. During the course, students will learn how to manipulate and create advanced word processing, spreadsheet, and presentation documents. All areas covered will prepare students for college assignments, as well as entry level office data positions.

Interactive Media

Credit: .5

State Course ID: 10203A000

Prerequisite: None

Level: All

The Interactive Media course will provide students with the knowledge and skills to create, design, and produce interactive media products and services. The course will emphasize the development of digitally generated and/or computer enhanced media. Topics that will be covered in this course will be 3D animation, 3D printing, graphic media, web development, and video game design.

Marketing

Credit: .5

Prerequisite: None

Level: Grades 10, 11, 12

This course is an introductory course designed to explore how products are developed, produced, promoted, and distributed. Topics covered include basic marketing and economic concepts, legal and ethical issues concerning marketers, selling, advertising and promotion. In addition, communication interpersonal, leadership, and technology skills will be developed, as well as employability and career development strategies. The course is focused in sports and entertainment marketing.

Cooperative Education

Credit: 2

Prerequisite: No more than 5 absences per semester the preceding year.

Level: Grade 12

Cooperative Education is a capstone course designed to assist students in the development of effective skills and attitudes through practical, advanced instruction in school and on the job through cooperative education. Students are released from school for their paid cooperative education work experience and participate in 200 minutes per week of related classroom instruction. Classroom instruction focuses on providing students with job survival skills and career exploration skills related to the job and improving students' abilities to interact positively with others. The course content includes the following broad areas of emphasis: further career education opportunities, planning for the future, job seeking skills, personal development, human relationships, legal protection and responsibilities, economics and the job, organizations, and job termination. Written training agreements and individual student training plans are developed and agreed upon by the employer, student and coordinator. This course will meet the consumer education requirement. This course satisfies the student's State of Illinois Consumer Education requirement.

CEO

Prerequisite: None
Level: Grades 11, 12

Creating Entrepreneurial Opportunities (CEO) is a year-long course designed to utilize partnerships that provide an overview of business development and processes. The local business community partners with area schools to create project based experiences for students by providing funding, expertise, meeting space, business tours and one-on-one mentoring. Students visit area businesses, learn from guest speakers, participate in a class business, write business plans, and start and operate their own business. Business concepts learned through experiential CEO class are critical; the 21st century skills of problem solving, teamwork, self-motivation, responsibility, higher order thinking, communication and inquiry are at the heart of student development throughout the course. This course satisfies the student's State of Illinois Consumer Education requirement.

Communication & Audio Visual

Broadcasting

Credit: 1

Prerequisite: None
Level: Grades 10, 11, 12 (preference given to juniors/seniors)

Communication Technology is a course designed to foster an awareness and understanding of the technologies used to communicate in our modern society. Students will gain first-hand experience in the areas of design and drafting, radio and television broadcasting, computers in communication, photography, graphic arts, and telecommunications.

English

English I

Credit: 1

State Course ID: 01001A000
Prerequisites: None
Level: Grade 9

This course combines elements of written language with the study of literature. Course content will focus on vocabulary, writing, literature, speaking, and listening. As part of the course work, students will study short stories, novels, poems, plays, and non-fiction

works to understand the structure of various forms of literature, comprehend and apply literary terms, and develop an awareness and insight into life situations. The writing content includes the mechanics of writing, such as grammar and structure. A variety of writing assignments of varying lengths and styles will be covered. An independent reading project is required each semester.

English II

Credit: 1

State Course ID: 01002A000

Prerequisite: English I

Level: Grade 10

This course will focus on world literature to broaden high school student's literary landscape. The units begin with an investigation of culture, working towards a definition and an understanding of commonalities and differences among human cultures as represented in literature, media, and nonfiction from around the world. Students are asked to write and research ways cultures communicate and conflicts that sometimes arise between cultures. Students will be required to complete creative writing, informative essays, and a research paper.

English III

Credit: 1

State Course ID: 01054A000

Prerequisite: English I, II

Level: Grade 11

This course will focus upon the written and oral analysis of genres and trends in American literature from the seventeenth century to the present. Research skills are further developed through a required research paper of an unsolved American mystery. Throughout this course, students will have opportunities to develop and expand their knowledge of American literature while improving reading, writing, speaking/listening, and critical thinking skills.

English IV

Credit: 1

State Course ID: 01004A000

Prerequisite: English I, II, III

Level: Grade 12

This course is strongly recommended for college-bound seniors who expect to acquire the fundamental skills needed for undergraduate English courses. Writing instruction will focus on the development of structure, style, mechanics, and the elaboration of ideas, as well as effective organization. This course emphasizes advanced reading and composition techniques integrated with a study of selected British and American literature. An independent reading project is required each semester. This course meets the fourth year English requirement.

College Composition

State Course ID: 01103A000

Prerequisite: English I, II, III; 3.0 GPA; teacher recommendation

Level: Grade 12

Composition I focuses on informative, analytical, evaluative, and persuasive writing and introduces students to college-level research. Students will develop sound writing processes, produce cogent writing, strengthen analytical reading skills, and work with sources. Students who meet the requirements will receive dual credit for ENG 1001 at Eastern Illinois University. This course can be used towards the fourth year English requirement.

Literature (Stories Matter)

Credit: .5

State Course ID: 01065A000

Prerequisite: English Composition; 3.0 GPA; teacher recommendation

Level: Grade 12

A study of the universal, recurring issues facing the individual, as they are dealt with in a selection of literary texts from diverse cultures. (1: Labor, Class, Power; 2: Faith, Survival, Progress; 3: Love, Hate, Obsession; 4: Age, Race, Gender). Students who meet the requirements will receive dual credit for ENG 2002 at Eastern Illinois University. This course can be used towards the fourth year English requirement.

Best Sellers

Credit: .5

State Course ID: 01061A000

Prerequisites: English I, II

Level: Grade 11, 12

This course is for students who enjoy reading contemporary fiction and nonfiction. Students will explore a variety of literary genres while participating in a discussion group that explores the issues in both current and past best sellers. Students will improve their critical thinking skills develop lifelong readers. Class discussion, critical reading strategies, and independent reading projects are the primary forms of assessment. This course can be used towards the fourth year English requirement.

Journalism

Credit: 1

State Course ID: 11101A000

Prerequisites: B or better in English

Level: Grades 10, 11, 12

Journalism will focus on the production of the school newspaper and yearbook. This course will emphasize writing style and technique as well as production values and organization. Students will be introduced to the concepts of newsworthiness and press responsibility, develop students' skills in writing and editing stories, headlines, and captions, and teach students the principles of production design, layout, and printing.

Photography and photojournalism skills may be included. This course meets the fourth year English requirement.

Introduction to Speech Communication

Credit: .5

State Course ID: 01151A000

Prerequisites: None

Level: Grades 11, 12

This course focuses on the fundamental principles of selecting, analyzing, evaluating, organizing, developing, and communication, information, evidence, and points of view orally. The course includes instruction in techniques of listening and informative, persuasive, and reactive speaking. Students who meet the requirements will receive dual credit for CMN 1310 at Eastern Illinois University. This course can be used towards the fourth year English requirement.

Creative Writing

Credit: .5

State Course ID: 01104A000

Prerequisites: English II

Level: Grades 11, 12

This course will focus on the ability to write in various genres. Students will observe the writing in modern works and attempt to create a piece following those same patterns. Along with reading and writing, students will have opportunities to discuss their works with classmates and to edit accordingly. Genres for writing include historical fiction, creative nonfiction, poetry, drama, science fiction and graphic novels. This course can be used towards the fourth year English requirement.

Family and Consumer Sciences

Introduction to FACS I

Credit: .5

Prerequisite(s): None

Level: Grades 9, 10, 11, 12

This is designed to present basic subject matter in six areas: Clothing and Textiles, Resource Management, Foods and Nutrition, Housing, Furnishings and Equipment, Human Development, Interpersonal and Family Relationships, and Introduction to the World of Work. Learning experiences assist students in understanding themselves, their roles in today's society and the nature of homemaking and other family and consumer sciences related careers.

Introduction to FACS II

Prerequisite(s): None

Level: Grades 9, 10, 11, 12

This is designed to present basic subject matter in six areas: Clothing and Textiles, Resource Management, Foods and Nutrition, Housing, Furnishings and Equipment, Human Development, Interpersonal and Family Relationships, and Introduction to the World of Work. Learning experiences assist students in understanding themselves, their roles in today's society and the nature of homemaking and other family and consumer sciences related careers.

Clothing and Textiles

Credit: .5

Prerequisite: Orientation to FACS

Level: Grades 11, 12

This course is planned to provide students opportunities to develop knowledge and understanding of textiles, fashions and fabrics and to assist them in meeting the clothing and fabric (fashion) product needs to themselves, families and/or general public. The content centers around developing student competencies in the following areas: selecting clothing and textile products using goal-making skills; meeting social, physical, psychological and economic needs in evaluating, selecting and caring for clothing and textiles; appraising clothing/textile products which contribute to health, safety and comfort; maximizing resources in selecting, constructing, altering, repairing and remodeling clothing/textile products; communicating intended clothing image to others; and approving decisions for clothing and textile needs. Information and experiences providing students with an understanding of the psychological aspects of fabric products as related to the needs of people, and the jobs and careers using competencies related to textiles and fabrics are included throughout the course.

Child Development I

Credit: .5

Prerequisite: None

Level: Grades 9, 10, 11, 12

This course provides learning experiences related to physical, emotional, social and intellectual development of children from birth through three years of age. Units include: living in families, effective parenting skills, teen pregnancy/parenthood, prenatal development, preparing for birth, giving birth, baby arrival and development through the first three years, and clothing through the first three years.

Child Development II

Credit: .5

Prerequisite: Child Development I

Level: Grades 9, 10, 11, 12

This class is a continuation of Child Development I. Emphasis is upon understanding children from four years through adolescence by concentrating on physical, intellectual,

social and emotional development. Units: children from four to six years, children from seven to twelve years, adolescence, problem situations for children, clothing for children four to twelve, health and safety, children's literature/authors, activities for children and careers relating to children.

Child & Day Care Services

Credit: 1

State Course ID: 19054A0001

Prerequisite: Completion of Child Development I & II with a grade of C or higher or instructor approval

Level: Grades 11, 12

A two-semester course designed for 11th and 12th grade students who want to gain work experience in the field of early childhood education. This course is designed to provide students interested in a career in child and day care operations with information and practical experiences needed for the development of job-related competencies. Students will be provided laboratory experiences either in a school-based or extended campus facility. Students will be expected to develop appropriate skills in program development and in assisting with children's and/or adult's activities. Classroom study is concerned with the philosophy and management of care centers and the state and local regulations governing care-giving operations. The main learning experiences will involve actual work with children/adults in situations that simulate those found in business and industry as well as preparation for the activity.

Parenting

Credit: .5

Prerequisite: None

Level: Grades 11, 12

This course helps student understand the responsibilities, satisfactions and stresses of parenthood. Course content includes the following: managing and organizing parenting by applying decision-making and goal-setting skills; applying the basic principles of the parenting process; resources; encouraging human relations skills in children/adolescents; community resource agencies and services; and evaluating impact on parenting of family and career changes.

Housing and Living Environments

Credit: .5

Prerequisite: Intro to FACS

Level: Grades 11,12

This course enables students to explore their creativity in the field of interior design. Identification of the elements and principles of design are emphasized. Other topics includes are furniture arrangement basics, floor plan evaluation, area planning and careers. FCCLA may be an integral part of this course.

Adult Living

Prerequisite(s): None

Level: Grade 11, 12

This course is designed to assist individuals and families in achieving life satisfaction through responsible participation as adults in the home, community and workplace. Emphasis is placed on the development of prevention strategies which will assist individuals in responding to situations in terms of their identified values and goals. the course content includes the following duty areas: developing short and long-range plans, demonstrating goal-setting and decision-making skills; evaluating and adapting basic needs to assume roles and responsibilities; recognizing and following health practices that assist in coping, selecting and using resources to enhance individual growth and development; developing effective relationships to promote communication with others; and evaluating family and career changes as to the impact on individuals. Various resources to assist with life problems are explored.

Foods and Nutrition I & II

Credit: 1

Prerequisite: Intro to FACS

Level: Grades 10, 11, 12

This course provides students with an understanding of food's role in society, instruction in how to plan and prepare meals, experience in the proper use of equipment and utensils, and background on the nutritional needs and requirements for healthy living. Nutritional components of a balanced diet as well as specific types of food preparation will be covered.

Culinary Arts

Credit: .5

Prerequisite: Foods & Nutrition I & II

Level: Grades 11, 12

This course includes classroom and laboratory experiences needed to develop a knowledge and understanding of culinary principles and nutrition for people of all ages. Course content encompasses food service and preparation management using the decision-making process; meeting basic needs by applying nutrition concepts; meeting health, safety, and sanitation requirements; maximizing resources when planning/preparing/preserving/ serving food; applying hospitality skills; analyzing nutritional needs in relation to change; and careers in nutrition and culinary arts, including entrepreneurship investigation.

Industrial Technology

Beginning Drafting

Credit: .5

State Course ID: 21102A002

Prerequisite: None

Level: All

Beginning Drafting is an introductory level drafting course. During this course students will learn the basic fundamentals of drafting and/or computer aided drafting (CAD). The instruction will include the care and use of drafting equipment, freehand sketching, orthographic projection, lettering techniques, dimensioning standards, pictorial drawings, drawing reproduction, and an introduction to CAD. In addition, the students will be introduced to Architectural Drawings including floor plan design, electrical plan design, plumbing design, and a front elevation.

Energy Utilization

Credit: .5

State Course ID: 20101A001

Prerequisite: None

Level: All

Energy Utilization is a course designed to foster an awareness and understanding of how we use energy in our industrial technological society. Areas of study will include conversion of energy; electrical fundamentals; solar energy resources; alternate energy resources such as wind, water, and geothermal; fossil fuels; nuclear power; energy conservation; and computer uses in energy technology. Students will use laboratory experiences to become familiar with current energy technologies. In addition, basic electronic theories and laws will be introduced.

Transportation

Credit: .5

State Course ID: 20001A001

Prerequisite: None

Level: All

Transportation is a course designed to foster an awareness and understanding of the various transportation customs that make up our mobile society. Through laboratory activities, the student will be exposed to the technologies of and career opportunities involved in material handling, atmospheric and space transportation, marine transportation, terrestrial transportation, and computer uses in transportation technology.

Production

Credit: .5

State Course ID: 13052A001

Prerequisite: None

Level: All

Production is a course designed to foster an awareness and understanding of manufacturing and construction technology. Through a variety of learning activities, students are exposed to many career opportunities in the production field. Experiences in manufacturing include product design, procedures, corporate structure, management, research and development, production planning, mass production, marketing and servicing. In construction, students will be exposed to site preparation, foundations, building structures, installing utilities, and finishing and servicing structures.

Electrical Trades I

Credit: 1

State Course ID: 13052A001**Prerequisite:** Energy Utilization**Level:** Grades 10, 11, 12

This course is designed to provide students with instruction and training in areas that prepare them to enter the electrical trades. Areas of instruction include electrical theory, circuit design and operation, the national electrical code, blue print reading, construction blue print interpretation, and test equipment usage. Students plan and organize wiring tasks, and gain practical experience by wiring mock -ups and trainers. Students become familiar with tools, materials, and methods used in residential wiring. Students troubleshoot circuits for faulty operation and make repairs. Specific studies include AC and DC theory, series and parallel circuits, motor and generator theory, motor controls, lighting and appliance wiring, low voltage wiring, and testing and repair. Students who meet the requirements will receive dual credit for MET 040 at Lake Land College.

Beginning Construction I

Credit: 1

State Course ID: 17001A001**Prerequisite:** Production**Level:** Grades 11, 12

Beginning Construction exposes students to the opportunities available in construction-related trades, such as carpentry, masonry, plumbing, electrical and so on. Students learn about the processes involved in construction projects and may engage in a variety of small projects. This course is designed to introduce students to the Carpentry /Carpenter occupation. Students are instructed in areas of safety, including hand tool, power tool, ladder, and scaffolding. Students are introduced to the theoretical knowledge needed to lay out rafter, stairs, and basic framing techniques. Planned learning activities allow students to understand fundamental principles and methods, and develop technical skills related to masonry, carpentry, and finish work. Instruction includes safety principles and practices, recognition of standard lumber sizes, foundation layout methods, building concepts and procedures, local, state, and national codes, cost estimating, and blueprint reading.

CAD I

Prerequisite: Beginning Drafting

Level: Grades 11, 12

Students who meet the requirements will receive dual credit for CAD 056 at Lake Land College.

Mechanical Drafting I (1st Semester)

State Course ID: 21106A001

This course introduces students to layout to scale using specified tolerances, preparing detail drawing for individual parts from drawings, layout and creating assembly drawings, and preparing mechanical orthographic subassembly drawings. This course also includes a sequence of CAD experiences in 2-dimensional and 3-dimensional drawing generation to include vocabulary development, system operation, dimensioning and text insertion, plotting, three dimensional coordinate system, 3-D parts detailing and assembly drawings, wire frame models, and system management relative to hard disk and tape storage systems. The course content will include the theory and history of CAD, preparing simple and complex drawings using the CAD command processes, using a variety of reproduction techniques, the completion of various Architectural drawings, and the use of layers and symbol libraries.

Architectural Drafting I (2nd Semester)

State Course ID: 21103A001

This course is designed to provide students interested in a career in Architecture with information and practical experience needed for the development of job -related competencies. Students are made aware of the career opportunities available in the Architectural Drafting and Architectural Drafting CAD - CADD field. Instruction is provided in the areas of planning and organizing activities, researching information, performing general office procedures, preparing of preliminary drawings, basic layout, detail drawings, reproduction techniques, producing working drawings, and computer aided drafting. Students are also provided with instruction in producing architectural drawings in the areas of presentation, floor plans, illustration of landscape features, sketching preliminary floor plans, drawing foundation plans and sections, exterior elevations, roof sections, finish schedules, preparing plumbing, electrical plans, and structural drawings.

CAD II

Credit: 1

Prerequisite: CAD I

Level: Grade 12

This course is a continuation of CAD I with an emphasis on project creation and production. Also introductions to AutoCAD Architecture, AutoCAD Civil 3D, AutoCAD Electrical, and Inventor will be covered.

Mechanical Drafting II (1st Semester)

State Course ID: 21106A002

Instruction and skills introduced in this program include determining the requirements

of a specific drafting job, preparing preliminary drawings such as freehand, isometric, orthographic, and oblique sketches; preparing detail drawings such as creating assembly drawings, orthographic projections, sectional views, auxiliary views, isometric views and letter drawings; producing mechanical working drawings such as detailing components of mechanical orthographic assembly and subassembly drawings

Architectural Drafting II (2nd Semester)

State Course ID: 21103A002

Instruction is provided in the areas of locating information using computer data files, determination of materials and availability, project conferences, checking plan dimensions, drawing schematic sketches, preparing scale sketches, producing drawings from written /verbal instructions, application of coordinate dimensioning standards, creating drawings using a plotter/printer, producing renderings and/or charts and graphs, and common plan features. Instruction is also provided in the areas of drawing framing plans, wall sections, fireplace sections, door sections, door and window schedules, dimensioning structural steel drawings, constructing column detail drawings, preparation of structural foundation, slab and floor plans, drawing electrical, block, schematic, and electrical connection drawings. Skills relating to CAD include preparation of a basic CAD drawing, building and editing a database, developing a 3-dimensional drawing and selecting appropriate line work, line weight, and color.

Math

Algebra I

Credit: 1

Prerequisite(s): Teacher recommendation

Level: Grade 9

Algebra I courses include: the study of properties and operations of the real number system; evaluating and using the operations upon rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with and factoring polynomials; solving and graphing simple quadratic equations solving systems of equations and inequalities.

Double Block Algebra I

Credit: 2

Prerequisite: None

1 math credit and 1 elective credit

Level: Grade 9

The content of this course is identical to Algebra I. Students electing this option will be enrolled in Algebra I for two periods. This course is designed for students who need to build their basic Algebra skills in order to be more successful in future math courses in high school and college.

Basic Geometry

Credit: 1

Prerequisite: Algebra I and teacher recommendation

Level: All

Basic geometry will include a review of perimeters, areas, volumes, constructions, postulates, theorems, and proofs. Applications of simple geometric skills will be applied to daily life.

Geometry

Credit: 1

Prerequisite(s): Algebra I

Level: All

Geometry courses, emphasizing an abstract, formal approach to the study of geometry, typically include topics such as properties of plane and solid figures, deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems and formal proofs, concepts of congruence, similarity, parallelism, perpendicularity and proportion; rules of angle measurement in triangles; right triangles, circles, perimeter, area, volume and surface area.

Intermediate Algebra

Credit: 1

Prerequisite(s): Basic Geometry or Geometry

Level: 10, 11, 12

Intermediate Algebra courses review and extend algebra and geometry concepts for students who have already taken Algebra I and geometry. Transition Algebra courses include a review of such topics as properties and operations of real numbers; evaluation of rational algebraic expressions; solutions and graphs of first degree equations and inequalities' translation of word problems into equations; operations with and factoring of polynomials; simple quadratics; properties of plane and solid figures' rules of congruence and similarity; coordinate geometry including lines, segments and circles in the coordinate plane and angle measurement in triangles including trigonometric ratios.

Algebra II

Credit: 1

Prerequisite(s): Geometry or teacher's consent

Level: 10, 11, 12

Algebra II course topics typically include field properties and theorems, set theory, operations with rational and irrational expressions; factoring of rational expressions, in-depth study of linear equations and inequalities, quadratic equations, solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations, properties of higher degree equations; and operations with rational and irrational exponents.

Business Math

Credit: 1

Prerequisite: Three years of high school math

Level: Grade 12

This course reinforces general math topics (e.g., arithmetic, measurement, statistics, ratio and proportion, exponents, formulas, and simple equations) by applying these skills to business problems and situations; applications might include wages, hourly rates, payroll deductions, sales, receipts, accounts payable and receivable, financial reports, discounts, and interest.

Pre-Calculus

Credit: 1

Prerequisite(s): Algebra II or teacher's consent

Level: Grade 11, 12

(Non dual credit option taken over the course of the year.) Pre-calculus courses combine the study of Trigonometry, Elementary Functions, Analytic Geometry, and Math Analysis topics as preparations for calculus. Topics typically include the study of complex numbers, polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses, and graphs, trigonometric identities and equations, solutions of right and oblique triangles; vectors, the polar coordinate system, conic sections; Boolean algebra and symbolic logic, mathematical induction; matrix algebra; sequences and series, and limits and continuity.

Pre-Calculus DC

Credit: .5

Prerequisite(s): Algebra II or teacher's consent

Level: Grade 11, 12

(Dual credit option condensed into one semester.) Pre-calculus courses combine the study of Trigonometry, Elementary Functions, Analytic Geometry, and Math Analysis topics as preparations for calculus. Topics typically include the study of complex numbers, polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses, and graphs, trigonometric identities and equations, solutions of right and oblique triangles; vectors, the polar coordinate system, conic sections; Boolean algebra and symbolic logic, mathematical induction; matrix algebra; sequences and series, and limits and continuity. Students who meet the requirements will receive dual credit for Math 140 with Lake Land College.

Calculus

Credit: 1

Prerequisites: Pre-Calculus or teacher's consent

Level: Grade 12

Calculus courses include the study of derivatives, differentiation, integration, the definite and indefinite integral, and applications of calculus. Typically, students have previously attained knowledge of pre-calculus topics (some combinations of

trigonometry, elementary functions, analytic geometry, and math analysis). Students who meet the requirements will receive dual credit for Math 241 at Lake Land College.

Inferential Probability and Statistics

Credit: .5

Prerequisite: Algebra II

Level: Grade 11, 12

Probability and Statistics courses focus on descriptive statistics, with an introduction to inferential statistics. Topics typically include event probability, normal probability distribution, collection and description of data, frequency tables and graphs, measures of central tendency and variability, random variables, and random sampling. Course topics may also include covariance, and correlation, central limit theorem, confidence intervals, and hypothesis testing. Students who meet the requirements will receive dual credit for Math 125 at Lake Land College.

Music

Band

Credit: 1

Prerequisite(s): Music note reading with previous band experience in 5th and 6th grade band and junior high level band. Students must have a working knowledge and be able to perform on an instrument from one of the main instrument families such as brass, woodwind or percussion.

Level: All

Band is a co-curricular two semester course which gives students a continuation and expansion of the instrumental music concepts that were learned previously. STUDENTS MUST BE ENROLLED IN BAND FOR BOTH THE FALL AND SPRING SEMESTERS. This is an organization designed to teach team work, self-discipline, and develop higher level thinking skills necessary to express one's self through music performance. This course will provide a large ensemble setting for students who wish to continue to develop both their own instrumental skill and that of an ensemble member interested in participating in both the Concert Band and Marching Band setting. This course will meet every day for the entire school year. At this level, a greater amount of time in rehearsal is devoted to preparing the group for concerts and performances and competitions that occur throughout the school year.

In the fall during the first quarter the organization will perform as the Marching Band and will perform at all varsity football games (excluding playoff games depending on the time of the year) as well as various marching competitions. Students will be required to attend all marching band performances throughout the year and the required rehearsals before school and in the evenings. Students will also be required to attend a one-week on-site marching band camp that will be held in August. At the conclusion of the marching season and for the remainder of the school year, the band will then perform as a Concert Band and/or Pep Band. During the month of November, the Concert Band will prepare for and perform at a Veteran's Day program

and during the month of December will perform at a Winter Concert. From the months of December through February, the Pep Band will perform at a number of girls and boys home basketball games. During the second semester the band will perform at numerous contest and competitions, conference band festival, The Fine Arts Dessert Theater, and a spring concert. To close out the school year the band will also be required to participate in the high school graduation ceremonies. Student attendance at all band functions is mandatory.

The basic fundamentals of being an instrumental musician are learned through performing quality musical literature during daily rehearsals throughout the school year. Students will receive a grade based on their level of participation during band rehearsals and for the band's overall level of performance at concert performances, and competitions throughout the school year. The instrumentation of the band is comprised primarily of woodwind, brass, and percussion instruments. A student wishing to perform in the band on an instrument other than one of those listed must meet with the director and get permission prior to signing up for the course.

The primary purpose of Band will be to provide students with an in-depth knowledge of their instruments, other instruments, elements of music, proper fundamental of breathing and posture, age-appropriate band literature, and rehearsal and concert techniques. Special emphasis will be placed on developing musicianship and ensemble responsibility through performance in a variety of settings and will also provide a positive experience that will allow the student to become a life-long learner of music as an expressive art form.

Percussion Studies

Credit: 1

Level: All

Percussion Studies offers High School Percussionists the opportunity to hone in on their skills in a more specific and individualistic setting. The class would be made up of only the Band students that play Percussion. In this course, students would focus on each instrument throughout the year to increase confidence and ability on those instruments. Ample time would be dedicated to Marching Band specific components such as the Drumline, Pit, Cadences, etc. While this is a separate course, students in Percussion Studies are held to the same requirements and expectations as Band. Students are required to attend all Marching Band events, perform with the Pep Band, as well as the other concerts and competitions throughout the year.

Color Guard

Credit: .25

Level: All

The Flag Squad or Color Guard is an auditioned co-op course held in conjunction with the Marching Band during the fall for the first quarter of the school year. Students who are selected by audition to be members of the flag squad will receive one-quarter credit for their participation in the group. In order to receive the one-quarter credit a student

must finish the entire quarter as an active member. All students enrolled in the flag squad are under the same policies and expectations of the marching band ensemble. Weekly practices are required as well as a two week flag camp that will be held sometime in July just prior to the start of the regular one week on-site marching band camp in August. Students will be required to attend all marching band performances throughout the year and the required rehearsals before school and in the evenings. All students wishing to participate in the flag squad must complete and pass an audition that will be held in the spring of the prior year. Tosses, spins, and numerous other flag fundamentals will be taught. Flag squad members will be expected to memorize an established routine created by the flag instructor in a timely manner. Coordinating music with the flag routine will also be covered. At home preparation and self-responsibility are essential to achieving success in this course. Students are expected to perform up to their ability as it relates to posture, respect for others, and learning and memorizing any assigned routine and marching drill. As a member of the marching band, flag members are required to perform at all home football games and several out of town performances including parades and competitions.

Choir

Credit: 1

Prerequisites: None

Level: All

The Arthur High School Choir is a choral ensemble. The goal of the class is to increase each student's level of musicianship while growing together as a musical ensemble. In order to achieve this, serious effort, commitment, participation, self-discipline, and a positive attitude are required of every student. Concerts are considered a culmination of musical concepts learned and work done during the school day. It is mandatory for choir members to participate in all performances. All absences must be made up to receive a grade. Required events include, but are not limited to, the LOVC Choral Festival, the Christmas and spring concerts, Dessert Theatre, and/or the musical, and Organizational Contest (if choir is entered that year). All choir members will also be required to sing the National Anthem at least once per semester of course enrollment. Elective opportunities include District and All-State IMEA Festival and Solo/Ensemble Contest.

Music Appreciation

Credit: .5

Prerequisite: None

Level: All

Music Appreciation is a course designed to gain understanding and explore the depths of music. Students will explore music's various functionalities in order to gain a deeper understanding and appreciation for all types of music. The course begins by examining basic music literacy and core musical elements such as melody, rhythm, harmony, and form. Throughout the course, students will apply their understanding of music through composition, research, performance, and application. The intended purpose of this course is to give all students a wider scope of music throughout time as well as a deeper understanding of the importance of music in our lives.

Physical Education

Physical Education

Credit: 1

Prerequisite(s): None

Level: All

The activities range from individual to team sports, including lifetime activities. There is an emphasis not only on the physical, but also on the emotional and social (cooperative) development of each student through physical activities. The goal is for each student to individually improve the physical portion of the health triangle. Units typically last 3 to 4 weeks. Each student is expected to dress and participate unless medical documentation is provided.

Health

Credit: .5

Prerequisite(s): None

Level: Grades 9, 10

All areas required by the state will be covered. Physical, mental, social and emotional health are essential for total health.

Driver Education

Credit: .5

Prerequisites: 15 years old during semester enrolled. Must pass 8 semester hours in the prior year

Level: Grades 9, 10

This course is a minimum of 30 clock hours in the classroom and 6 hours of behind the wheel with an instructor. (Dr. ED car) The classroom focuses on the Rules of the Road booklet. Knowledge of the rules, safe driving practices, pedestrian safety, motorcycle safety and driving under the influence are presented and tested on. Skills for stopping, backing, turning, turnabouts, common emergency situations and parking are taught and evaluated. Training on rural, city, highway and interstate driving are given in class as well as behind the wheel.

Science

Biology

Credit: 1

Prerequisite: None

Level: 9

This course focuses on ecosystems, structure and function of organisms, genetics, and evolution. Throughout the course of the year students will collaborate amongst peers to develop an understanding of these four core topics. Class projects, group work, labs, discussion, and oral presentations are integral parts of this course.

Survey of Science

Credit: 1

Prerequisites: Biology

Level: Grade 10

The specific content of Integrated Science courses varies, but they draw upon the principles of several scientific specialties-earth science, physical science, biology, chemistry, and physics-and organize the material around thematic units. Common themes covered include systems, models, energy, patterns, change, and constancy. These courses use appropriate aspects from each specialty to investigate applications of the theme.

Zoology

Credit: 1

Prerequisite: Biology

Level: 10, 11, 12

This course provides students with an understanding of animals, the niche they occupy in their environment or habitat, their life cycles, and their evolutionary relationships to other organisms. Content will include but not limited to: evolution, classification, and the different phyla of animals. An extensive mammal dissection is a requirement of the coursework. This course will also involve other dissections and labs.

Earth Space Science

Credit: 1

Prerequisite: Biology

Level: Grades 11, 12

This course is an in depth look at Earth's physical structure and how it continues to be shaped. Formation, weather and atmospheric effects on our planet will be discussed. Lessons on our galaxy and the space program are integrated.

Environmental Life Sciences

Credit: 1

Prerequisite: Biology I; 3.0 GPA; teacher recommendation

Level: Grades 11, 12

A study of the interrelationships of the living and non-living components of the environment, the ecology of humankind, and the interaction of humans with the environment. The course emphasizes current environmental issues and possible solutions and courses of action. Students who meet the requirements will receive dual credit for BIO 2002 with Eastern Illinois University.

Anatomy and Physiology

Credit: 1

Prerequisite: Zoology with a B- or above. Chemistry is strongly recommended.

Level: Grades 11, 12

This course covers the structure and function of the human body. Emphasis is placed on the 11 organ systems as they relate to the maintenance of homeostasis in the body. Case studies involving clinical and ethical issues covering various aspects of human biology are included in this class. Organ dissections, class projects, group work, and oral presentations are integral parts of the course. This class is designed to help students prepare for college Anatomy and Physiology.

Chemistry

Credit: 1

Prerequisite(s): C+ or better in Algebra I. C or better in Biology or instructor approval.

Level: Grade 10, 11, 12

A course which deals with the composition and structure of materials and the physical, chemical and nuclear changes the materials undergo. The course should be considered a prerequisite for anyone considering an engineering, medical (including nursing), or scientific career.

Advanced Chemistry

Credit: 1

Prerequisite: B- average in Chemistry

Level: Grade 11, 12

Advanced chemistry topics include organic chemistry, thermodynamics, electrochemistry, macromolecules, kinetic theory, and nuclear chemistry.

Physics

Credit: 1

Prerequisite: B- or better in two years of high school math, one of which must be Algebra II or instructor approval. Highly recommended concurrent enrollment in PreCalc.

Level: Grade 11, 12

A course which deals with the mathematical relationships that exist between matter and energy. The topics to be covered include mechanics (first semester), thermal energy, wave motion, light, electricity, and magnetism. The primary thrust of the course is to develop the ability to use the formulas which have been derived from physical laws, to solve problems.

Social Studies

Civics

Credit: .5

State Course ID: 04161A000

Prerequisite: None

Level: Grade 12

Civics courses examine the general structure and functions of American systems of government, the roles and responsibilities of citizens to participate in the political process, and the relationship of the individual to the law and legal system. These courses do not typically delve into the same degree of detail on constitutional principles or the role of political parties and interest groups as do comprehensive courses in U.S. Government.

Consumer Education

Credit: .5

Prerequisite: None

Level: Grade 12

The ultimate goal of this course is to help students become confident individuals with regard to understanding his/her responsibilities in the American economic system. The area of consumer concerns to be addressed in this course involve a study of money management, wise use of credit, saving and investing, understanding the economy, insurance, taxes, consumer laws, financial management and making well informed purchasing decisions. No other course is more relevant to everyday living. This course will satisfy the student's State of Illinois Consumer Education requirement.

Current Events

Credit: 1

Prerequisites: None

Level: Grades 11, 12

The Current Events curriculum introduces students to issues that influence our life in this global, multicultural society. Students will research current economic, political, social, and cultural problems, and explore how ongoing conflicts affect groups as well as individuals. Emphasis is upon America as a dynamic society in the 21st century, witnessing changes involving community, state, nation, and world. International, national, state, and local items are examined with the intent of interpreting the significance of these events. Some of the pressing problems facing our rapidly changing society will be examined in detail using a variety of media (newspapers, CNN, Fox News, MSNBC). Critical thinking skills and technology related research is emphasized. Speaking and listening skills are reinforced through class discussions and oral presentations. This course attempts to place current events within a historical perspective and suggests future implications of these events.

Economics

Prerequisites: None
Level: Grades 11, 12

Economics is the study of human behavior when faced with the complicated problem of satisfying unlimited desires with limited resources. Students will study the basic, but important concepts of supply, demand, elasticity, scarcity, shortage, and surplus. Students will discover how these concepts influence their own personal decision making process as well as the behavior of society as a whole. Students will also have an opportunity to experience the real world challenges faced by entrepreneurs through a series of in class simulations.

Psychology

Prerequisite: None
Level: Grades 11, 12

Credit: .5

Psychology will introduce students to the study of individual human behavior. Course content will include (but is not limited to) an overview of the field of psychology, topics in human growth and development, personality, and behavior, and abnormal psychology. Students will gain an introductory foundation in psychological theory and prominent theorists.

Sociology

Prerequisites: None
Level: Grades 11, 12

Credit: .5

Sociology is the scientific study of social behavior, its origins, development, organizations, and institutions. Students will be introduced to the history of the subject, major figures responsible for creating the subject, and the major theoretical perspectives within the subject. Students will also be introduced to cultures, subcultures, and counter cultures. Methods for socialization, such as positive, negative, formal, and informal sanctions will be discussed and analyzed.

U.S. History

Prerequisite(s): None
Level: Grade 11

Credit: 1

The course is designed to acquaint the student with the major social problems facing today's society as well as to raise the level of knowledge and understanding about our economy and its operation, to encourage critical thinking and appraisal of current economic problems and proposals, and to develop an appreciation of values and benefits of living and working in a free economy and a democratic society. Special emphasis will be given to the ideas and institutions which have determined the course of American progress from the Colonial Period to the present.

World History

Credit: 1

Prerequisites: None

Level: All

This course includes a study of people and events from the earliest pre-historic man to our present time. It is hoped that the student will acquire a better understanding of the culture in which he/she lives by studying the experiences and struggles of the people of the past. Students will utilize on-line resources to develop research projects.

World Geography

Credit: 1

Prerequisites: None

Level: All

Students will gain a basic understanding of geographic terms, landforms, maps, climates, and cultures of all areas of the planet. Focus will be on the environment, population, culture, history, government, and current events of these regions.

History of the United States to 1877

Credit: .5

Prerequisite: 3.0 GPA and teacher recommendation

Level: Grade 11, 12

The colonial period; the independence movement; framing and adoption of the Constitution; growth of American nationality; Manifest Destiny; the Civil War and Reconstruction. Students who meet the requirements will receive dual credit for HIS 2010 at Eastern Illinois University.

History of the United States Since 1877

Credit: .5

Prerequisite: 3.0 GPA and teacher recommendation

Level: Grade 11, 12

The new industrial society; agrarian movement; the United States as a world power through two world wars, The Great Depression and after. Students who meet the requirements will receive dual credit for HIS 2020 at Eastern Illinois University.

Spanish

Spanish I

Credit: 1

Prerequisite: B or better in English or C or better with teacher recommendation

Level: All

This course is designed to introduce students to Spanish language and culture. Spanish I courses emphasize basic grammar and syntax, simple vocabulary, and the

spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the art, literature, customs, and history of Spanish-speaking people.

Spanish II

Credit: 1

Prerequisite(s): Spanish I

Level: Grades 10, 11, 12

Spanish II builds upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Student explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the cultures(s).

Spanish III

Credit: 1

Prerequisite(s): Spanish II

Level: Grades 11, 12

Spanish III focuses on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

Spanish IV

Credit: 1

Prerequisite(s): Spanish III

Level: Grade 12

Spanish IV focuses on advancing students' skills and abilities to read, write, speak, and understand the Spanish language so that they can maintain simple conversations with sufficient vocabulary and an acceptable accent, have sufficient comprehension to understand speech spoken at a normal pace read uncomplicated but authentic prose, and write narratives that indicate a good understanding of grammar and a strong vocabulary.

Dual Credit

Automotive Technology

Credit: 2

Level: 11, 12

LLC Course Credit: 17 yr 1, 15 yr 2

Prerequisites: Previous grades, credits earned, attendance and work ethic will all be considered. Admission to program is not guaranteed to all interested students.

This program prepares students with entry-level skills and knowledge necessary for employment in automotive repair maintenance shops as service or parts personnel. Instruction is provided in a shop equipped with the most up-to-date equipment available.

Year 1

TEC 043 Industrial Safety
 TEC 048 Applied Shop Computations
 TEC 055 Special Topics in Technology
 AUT 048 Intro to Automotive
 ENG 050 Writing for Industry
 AUT 051 Electrical Systems 1
 SFS 102 Strategies for Money
 Management

Year 2

TEC 055 Special Topics in Technology
 HED 178 Responding to Emergencies
 AUT 052 Engine Performance 1
 AUT 053 Brake Systems
 AUT 009 Intro Med/Heavy Truck
 Repair

Health Occupations Program

Credit: 2

Level: Grades 11, 12

LLC Course Credit: 11

Prerequisites: Previous grades, credits earned, attendance and character will all be considered. Admission to program is not guaranteed to all interested students.

Health Occupations Program is designed for high school students who are interested in pursuing a career in the health care field. This course includes classroom, laboratory, and clinical experience to give the student a basic understanding of the concepts and philosophy of health care. Health Occupation Program integrates academic, as well as workplace skills, and career development competencies. The students will observe health professionals in their unique health-care setting and experience a wide variety of career pathways in health care. The student will complete a Basic Nursing Aide Training Program. Upon completion of the program, the student will be eligible to apply for certification as a basic nurse assistant.

Pre-Calculus

Credit: 1

Prerequisite(s): Algebra II or teacher's consent

LLC Course Credit: 5

Level: Grades 11, 12

Pre-calculus courses combine the study of Trigonometry, Elementary Functions, Analytic Geometry, and Math Analysis topics as preparations for calculus. Topics typically include the study of complex numbers, polynomial, logarithmic, exponential,

rational, right trigonometric, and circular functions, and their relations, inverses, and graphs, trigonometric identities and equations, solutions of right and oblique triangles; vectors, the polar coordinate system, conic sections; Boolean algebra and symbolic logic, mathematical induction; matrix algebra; sequences and series, and limits and continuity. Students who meet the requirements will earn dual credit for Math 140 with Lake Land College.

Inferential Probability and Statistics

Credit: .5

Prerequisite: Algebra II

LLC Course Credit: 3

Level: Grades 11, 12

Probability and Statistics courses focus on descriptive statistics, with an introduction to inferential statistics. Topics typically include event probability, normal probability distribution, collection and description of data, frequency tables and graphs, measures of central tendency and variability, random variables, and random sampling. Course topics may also include covariance, and correlation, central limit theorem, confidence intervals, and hypothesis testing. Students who meet the requirements will earn dual credit for Math 125 with Lake Land College.

Electrical Trades I

Credit: 1

State Course ID: 13052A001

LLC Course Credit: 2.5

Prerequisite: Energy Utilization Level: Grades 10, 11, 12

This course is designed to provide students with instruction and training in areas that prepare them to enter the electrical trades. Areas of instruction include electrical theory, circuit design and operation, the national electrical code, blue print reading, construction blue print interpretation, and test equipment usage. Students plan and organize wiring tasks, and gain practical experience by wiring mock -ups and trainers. Students become familiar with tools, materials, and methods used in residential wiring. Students troubleshoot circuits for faulty operation and make repairs. Specific studies include AC and DC theory, series and parallel circuits, motor and generator theory, motor controls, lighting and appliance wiring, low voltage wiring, and testing and repair. Students who meet the requirements will receive dual credit for MET 040 at Lake Land College.

CAD I

Credit: 1

Prerequisite: Beginning Drafting

LLC Course Credit: 2

Level: Grades 11, 12

Students who meet the requirements will receive dual credit for CAD 056 at Lake Land College.

Mechanical Drafting I (1st Semester)

State Course ID: 21106A001

This course introduces students to layout to scale using specified tolerances, preparing detail drawing for individual parts from drawings, layout and creating assembly drawings, and preparing mechanical orthographic subassembly drawings. This

course also includes a sequence of CAD experiences in 2-dimensional and 3-dimensional drawing generation to include vocabulary development, system operation, dimensioning and text insertion, plotting, three dimensional coordinate system, 3-D parts detailing and assembly drawings, wire frame models, and system management relative to hard disk and tape storage systems. The course content will include the theory and history of CAD, preparing simple and complex drawings using the CAD command processes, using a variety of reproduction techniques, the completion of various Architectural drawings, and the use of layers and symbol libraries.

Architectural Drafting I (2nd Semester)

State Course ID: 21103A001

This course is designed to provide students interested in a career in Architecture with information and practical experience needed for the development of job -related competencies. Students are made aware of the career opportunities available in the Architectural Drafting and Architectural Drafting CAD - CADD field. Instruction is provided in the areas of planning and organizing activities, researching information, performing general office procedures, preparing of preliminary drawings, basic layout, detail drawings, reproduction techniques, producing working drawings, and computer aided drafting. Students are also provided with instruction in producing architectural drawings in the areas of presentation, floor plans, illustration of landscape features, sketching preliminary floor plans, drawing foundation plans and sections, exterior elevations, roof sections, finish schedules, preparing plumbing, electrical plans, and structural drawings.

College Composition

Credit: .5

State Course ID: 01103A000

EIU Course Credit: 3

Prerequisite: English I, II, III; 3.0 GPA; teacher recommendation

Level: Grade 12

Composition I focuses on informative, analytical, evaluative, and persuasive writing and introduces students to college-level research. Students will develop sound writing processes, produce cogent writing, strengthen analytical reading skills, and work with sources. Students who meet the requirements will receive dual credit for ENG 1001 at Eastern Illinois University. This course can be used towards the fourth year English requirement.

Literature (Stories Matter)

Credit: .5

State Course ID: 01065A000

EIU Course Credit: 3

Prerequisite: English Composition; 3.0 GPA; teacher recommendation

Level: Grade 12

A study of the universal, recurring issues facing the individual, as they are dealt with in a selection of literary texts from diverse cultures. (1: Labor, Class, Power; 2: Faith, Survival, Progress; 3: Love, Hate, Obsession; 4: Age, Race, Gender). Students who meet the requirements will receive dual credit for ENG 2002 at Eastern Illinois University.

This course can be used towards the fourth year English requirement.

Introduction to Speech Communications

State Course ID: 01151A000

Prerequisites: None

Level: Grades 11, 12

Credit: .5

EIU Course Credit: 3

This course focuses on the fundamental principles of selecting, analyzing, evaluating, organizing, developing, and communication, information, evidence, and points of view orally. The course includes instruction in techniques of listening and informative, persuasive, and reactive speaking. Students who meet the requirements will receive dual credit for CMN 1310 at Eastern Illinois University. This course can be used towards the fourth year English requirement.

Environmental Life Sciences

State Course ID: 03003A000

Prerequisite: Biology I; 3.0 GPA; teacher recommendation

Level: Grades 11, 12

Credit: 1

EIU Course Credit: 3

A study of the interrelationships of the living and non-living components of the environment, the ecology of humankind, and the interaction of humans with the environment. The course emphasizes current environmental issues and possible solutions and courses of action. Students who meet the requirements will receive dual credit for BIO 2002 with Eastern Illinois University.

History of the United States to 1877

State Course ID: 04102A000

Prerequisite: 3.0 GPA and teacher recommendation

Level: Grade 11, 12

Credit: .5

EIU Course Credit: 3

The colonial period; the independence movement; framing and adoption of the Constitution; growth of American nationality; Manifest Destiny; the Civil War and Reconstruction. Students who meet the requirements will receive dual credit for HIS 2010 at Eastern Illinois University.

History of the United States Since 1877

State Course ID: 04103A000

Prerequisite: 3.0 GPA and teacher recommendation

Level: Grade 11, 12

Credit: .5

EIU Course Credit: 3

The new industrial society; agrarian movement; the United States as a world power through two world wars, The Great Depression and after. Students who meet the requirements will receive dual credit for HIS 2020 at Eastern Illinois University.

