ALTAMONT HIGH SCHOOL
COURSE CATALOG

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COURSE DESCRIPTION INFORMATION

The course description guide, together with the Student Handbook, will provide you with the information you need to plan a successful and rewarding experience during your four years of high school.

The counselor will be able to expand further on opportunities after high school and make suggestions appropriate for your interests and abilities. A great amount of time and effort is devoted to the process of allowing a student to select the courses that they wish to take and then to construct a master schedule which will permit most students to enroll in these choices. Students are to carefully select courses after conferring with parents, counselor, and teachers during the enrollment period. **Students are expected to stay with the schedule they select throughout the ENTIRE SCHOOL YEAR.**

Our primary concern is that your experience at Altamont High School be a positive and profitable one. Toward this end, students will receive exposure to a wide variety of curricular areas. The development of basic life skills is an integral part of our overall program.

Administrators, teachers, parents, and students will work together as a team to ensure that each student is able to achieve to the best of his or her ability.

GRADUATION REQUIREMENTS

Twenty-eight credits required for graduation from Altamont High School. The twenty-eight credits must include the following:
4.0 credits of English
1.0 credit of US History
0.5 credit of Civics/Constitution
0.5 credit of Consumer Education or Economics
0.5 credit of Social Science
3.0 credits of Science
1.0 credit of Foreign Language, Art, Music[1], or Vocational Education
3.0 credits of Mathematics[2]
0.5 credit of Health
2.0 credits of Physical Education[3]
40 hours of community service must be on file in the guidance office by the start of the final quarter before graduation in order to participate in the commencement ceremony.
***NOTE: The school district will only accept one (1.0) unit of outside credit from a pre-approved recovery source to count toward graduation.**

SUMMARY OF MINIMUM HIGH SCHOOL COURSE REQUIREMENTS FOR ADMISSION OF FRESHMEN TO MOST ILLINOIS PUBLIC UNIVERSITIES

- English: 4 years
- Foreign Language: 2 to 4 years
- Mathematics: 4 years
- Science: 3 to 4 years
- Social Science: 2 to 3 years

[1] Band or chorus is 1 (one) credit each per year and is used to determine GPA.
[2] Meeting the mathematics requirement includes the successful completion of Algebra I and a Geometry Concepts class.
[3] Students are required to be enrolled in physical education every semester they are enrolled in school unless exempted by board policy.

SUGGESTED CURRICULA

For the College Prep Student

Students planning to enter college after high school graduation should begin preparing for this goal with freshman registration. The Board of Higher Education has established minimum admission standards for all public colleges and universities in Illinois to aid students in this registration process. High school students who plan to enter college should tentatively prepare a four-year program including a minimum of:

4 years of English
4 years of college prep mathematics
4 years of social studies
4 years of laboratory science
4 years of foreign language

A college prep curriculum should include a variety of subject areas, including subjects in the student's specific interest area. A general education covering a wide range of courses should provide a strong background for the college-bound student. Because specific entrance requirements vary from college to college and from year to year, college-bound students should consult with the guidance counselor before making their final course selection.

Students are encouraged to take as many classes in the above areas as possible. Students are also encouraged to take any AP or honors courses even if it lowers your GPA. This shows colleges that students are taking initiative and will step out of their comfort zones to try the harder curricular. Then, if the student's GPA is lower, they can defend the reasons why in their college essay.

Prerequisites

Prerequisites must be successfully completed with a passing grade. In the case of a two-semester sequence, students who fail the first semester and pass the second semester may enroll concurrently in the next class in the sequence and the first semester of the prerequisite class.

AGRICULTURE

NOTE: All students enrolled in an agriculture class will be enrolled as an FFA member.

INTRODUCTION TO THE AGRICULTURAL INDUSTRY

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 9, 10 SEMESTER: 1 and 2
REMARKS: A fee may be required for this class and payment will be included in student registration. This class will be offered every year and is a prerequisite for ALL agriculture courses.

Course Description (ISBE ID:18001A001): This orientation course provides an opportunity for students to learn how the agricultural industry is organized; its major components; and the scope and types of job opportunities in the agricultural field. Basic concepts in FFA opportunities, animal science, plant science, soil science, agribusiness management and agricultural mechanics, will be presented. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

AGRICULTURAL MECHANICS AND TECHNOLOGY

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 10, 11, 12 SEMESTER: 1 and 2
PREREQUISITE: Introduction to the Agricultural Industry
REMARKS: A fee may be required for this class and payment will be included in student registration. This class will only be offered during the school years beginning in an odd number.

Course Description (ISBE ID:18402A001): In this course, theory and hands-on experiences provide opportunities for students to develop basic knowledge and skills in agricultural mechanics. Instructional areas include personal safety, hand tools, power tools, the basic fundamentals of maintaining and repairing small gasoline engines, basic electricity, welding, surveying, and operating agricultural equipment safely. Improving workplace and computer skills will be a focus-on skills, and workplace skills applicable to construction in the agricultural industry. Careers such as carpenter, plumber, electrician, concrete and other related occupations will be examined. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

BASIC AGRICULTURAL SCIENCE

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 10, 11 SEMESTER: 1 and 2
PREREQUISITES: Introduction to the Agricultural Industry or instructor approval
REMARKS: A fee may be required for this class and payment will be included in student registration. This class will be offered every year.

Course Description (ISBE ID:18003A001): This orientation course builds on basic skills and knowledge gained in the Introduction to the Agricultural Industry course. Major units of instruction include agricultural research, soil science, animal science and animal reproduction, understanding natural resources and its importance, forestry management and conservation, the animal and plant cell, the concepts of genetics and genetic engineering, and careers in agriculture science. Applied science and math skills and concepts will be stressed throughout the course as they relate to each area. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

HORTICULTURE SCIENCE

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 11, 12 SEMESTER: 1
PREREQUISITES: Introduction to the Agricultural Industry, Basic Agriculture Science, or instructor approval
REMARKS: A fee may be required for this class and payment will be included in student registration. This class will be offered every year.

Course Description (ISBE ID:18052A001) 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 research, horticultural careers, plant anatomy, seed germination, plant propagation, growing media, identifying horticultural plants, floral design, and 21st century horticulture. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

LANDSCAPING AND TURF MANAGEMENT

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 11, 12 SEMESTER: 2
PREREQUISITES: Introduction to the Agricultural Industry, Basic Agriculture Science, or instructor approval
REMARKS: A fee may be required for this class and payment will be included in student registration. This class will be offered every year.

Course Description (ISBE ID:18054A001): This advanced course focuses on the landscape, nursery, and turf segments of the horticulture industry. Units of student instruction include: identifying landscape plants, designing landscape plans, hardscape construction techniques, and installing landscape plants. Also included are nursery production, turfgrass production, and maintenance of existing landscapes. Agribusiness units will cover calculating prices for work, managing a horticulture business, advertising, and sales. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

VETERINARY TECHNOLOGY

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 11, 12 SEMESTER: 2
PREREQUISITES: Introduction to the Agricultural Industry or instructor approval. Basic Agriculture Science is highly recommended.
REMARKS: A fee may be required for this class and payment will be included in student registration. This class will only be offered during the school years beginning in an even number.

Course Description (ISBE ID:18105A001): This course will develop students' understanding of the small and companion animal industry, animal anatomy and physiology, animal ethics and welfare issues, animal health, veterinary medicine, veterinary office practices, and animal services to humans. Career exploration will focus on veterinarian, veterinary lab technicians, office lab assistant, small animal production, research lab assistant, and animal nutrition lab technician. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

AGRICULTURAL BUSINESS MANAGEMENT

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 11, 12 SEMESTER: 1 and 2
PREREQUISITES: Introduction to the Agricultural Industry or instructor approval
REMARKS: A fee may be required for this class and payment will be included in student registration. This class will only be offered during the school years beginning in an even number.

Course Description ISBE ID:18201A001): This course will develop students' understanding of the agricultural industry relating to the United States and World marketplace, Agricultural Sales, Agribusiness Marketing, and Commodity Marketing. Instructional units include: business ownership types, planning and organizing the agribusiness, financing the agribusiness, keeping and using records in an agribusiness, operating the agribusiness, agricultural law, taxes, and developing employability skills. agricultural economic principles, marketing and advertising, product development, sales techniques and strategies, communicating with employees and customers, managing risk, international agribusiness, and studying various agricultural companies and career opportunities. Student skills will be enhanced in math, reading comprehension, and writing through agribusiness applications. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

PHYSICAL SCIENCE APPLICATIONS IN AGRICULTURE

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 11, 12 SEMESTER: 1

PREREQUISITES: Introduction to the Agricultural Industry or instructor approval. Basic Agriculture Science is highly recommended.
REMARKS: A fee may be required for this class and payment will be included in student registration. This class will only be offered during the school years beginning in an odd number.

Course Description (ISBE ID: 18449A002): This course is designed to reinforce and extend students understanding of physical science and the scientific process by associating scientific and math principles and concepts with relevant applications in agriculture. Topics of study are in the areas of scientific investigations, environmental/natural resource systems, agricultural production systems, agricultural structural systems, and food processing systems. The course will be valuable preparation for further education and will increase the relevance of science through the applied setting of agriculture by enhancing literacy in science and the scientific process. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

BIOLOGICAL SCIENCE APPLICATIONS IN AGRICULTURE – ANIMAL SCIENCE

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 11, 12 SEMESTER: 1
PREREQUISITES: Introduction to the Agricultural Industry or instructor approval. Basic Agriculture Science is highly recommended.
REMARKS: A fee may be required for this class and payment will be included in student registration. This class will only be offered during the school years beginning in an even number.

Course Description (ISBE ID:18101A001): This course is designed to reinforce and extend students understanding of science by associating scientific principles and concepts with relevant applications in agriculture. Students will examine major phases of animal agriculture and specific biological science concepts that govern management decisions in the animal industry. Topics of study are in the areas of growth and development of animals – embryology, ethology, nutrition, immunity systems, and processing animal products – preservation, fermentation, and pasteurization. The course will be valuable preparation for further education and will increase the relevance of science through the applied setting of agriculture by enhancing literacy in science and the scientific process. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

BIOLOGICAL SCIENCE APPLICATIONS IN AGRICULTURE – PLANT SCIENCE

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 11, 12 SEMESTER: 2
PREREQUISITES: Introduction to the Agricultural Industry or instructor approval. Basic Agriculture Science is highly recommended.
REMARKS: A fee may be required for this class and payment will be included in student registration. This class will only be offered during the school years beginning in an odd number.

Course Description (ISBE ID:18051A002): This course is designed to reinforce and extend students understanding of science by associating basic scientific principles and concepts with relevant applications in agriculture. Students will examine major phases of plant growth and management in agriculture and the specific biological science concepts that govern management decisions. Topics of study are in the areas of initiating plant growth – germination, plant sensory mechanisms, enzyme action, absorption, and managing plant growth – photosynthesis, respiration, translocation, metabolism, and growth regulation. The course will be valuable preparation for further education and will increase the relevance of science through the applied setting of agriculture by enhancing literacy in science and the scientific process. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

SUPERVISED AGRICULTURAL EXPERIENCE

COURSE LENGTH: One Year CREDIT: .25-1.0
COURSE LEVEL: 9, 10, 11, 12 SEMESTER: 1 and 2
PREREQUISITES: Introduction to the Agricultural Industry or instructor approval.
REMARKS: A fee may be required for this class and payment will be included in student registration. This class will be offered every year.

Course Description (ISBE ID: 18998A002): This course is designed to establish knowledge and skills in various agricultural careers. Students will gain credit by establishing a project at their home, at a local business, or at their school usually after normal school hours. Example projects may include, but are not limited to: working at a garden center, raising vegetables/grain/livestock, conducting agriscience experiments in a greenhouse, and training horses at a stable. Students will be required to verify their experiences by keeping written or computerized records including: business agreements, budgets, inventories, daily activities, hours worked, income and expenses, total earnings, depreciation, and net worth. Instructor supervision will be conducted to the student's home or place of employment. SAE records should be evaluated at least once per month. In addition, SAE lessons are integrated in each agricultural course. SAE participation can lead to full time employment, scholarships, and awards through the FFA.

ART

DRAWING (ART I)

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 9, 10 SEMESTER: 1 and 2
Upperclassmen by consent of instructor

Course Description (ISBE ID: 05156A000): If you cannot draw and really want to learn, this is the class for you! This is an introductory course in enhancing creativity and artistic confidence. During the first semester, we will cover various activities and skills while learning how to draw with a variety of media. Art history will be studied as it relates to studio work. As a result of this class, students will have a basic understanding of drawing and design. During the second semester, students will be given an opportunity to concentrate the Elements of Art: Line, Shape, Value, Form, Color, Space, and Texture. Instruction is geared to guiding students' creativeness. As a result of this class, students will be able to build on their previous knowledge of drawing class. A deeper understanding of this process will prepare students for college level classes.

PRINTMAKING/GRAPHICS (ART II)

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 10, 11, 12 SEMESTER: 1 and 2
PREREQUISITES: Drawing (Art I) or consent of instructor.

Course Description (ISBE ID: 05160A000): During the first semester, students are given the opportunity to concentrate in specific areas of charcoal, oil pastels, chalk, pen and ink, and printmaking. As a result of this class, students will be able to improve on their abilities in specific areas of concentration. A deeper understanding in these areas of concentration will prepare students for college level coursework. During the second semester, students will be introduced to Clay (hand building and slab work) and will learn the basic operation of Adobe Photoshop. They will learn about photo composition through lecture and hands-on applications. In addition, students will learn how to save images, transfer images to computer programs, retouch images through the Adobe Photoshop software program, and print images. Upon completion of this class, students will have a basic understanding of the use and potential of today's digital cameras as well as that of the Adobe Photoshop program. Starting new in the 2020-21 school-year, this class will partner with the Manufacturing classes to create three dimensional projects for ACHS Industries.

PAINTING (ART III)

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 11, 12 SEMESTER: 1 and 2
PREREQUISITE: Drawing, Printmaking/Graphics, or by consent of instructor

Course Description (ISBE ID: 05157A000): First semester of this course is designed to give students an opportunity to concentrate in specific areas of charcoal, white charcoal, oil pastel, pen and ink, watercolors and acrylic. Second semester of this course is designed to give students an opportunity to further concentrate in specific areas of ceramics, sculpture. As a result of this class, students will improve their abilities in specific areas of concentration. A deeper understanding in these areas of concentration will prepare students for college level coursework.

AP ART-HISTORY OF ART (DUAL CREDIT)

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 12 SEMESTER: 1 and 2
PREREQUISITE: Drawing, Printmaking/Graphics, and Painting
REMARKS: A fee set by Lake Land College is required for this class and payment will be included in student registration. The 2019-20 school year cost $91.26, but this can change from year to year.

Course Description (ISBE ID: 05153A000): This is a dual credit class equal to 3 semester hours at Lake Land College (ART 261). First semester this course is designed to parallel college-level Art History courses with Art IV. AP-History of Art courses provide the opportunity for students to critically examine architecture, sculpture, painting, and other art forms within their historical and cultural contexts. In covering the art of several centuries (not in chronological order), students learn to identify different styles, techniques, and influences and to formulate and articulate their reactions to various kinds of artwork. Second semester this course is designed to give students an opportunity to concentrate in specific areas previously covered freshman-junior year and build a portfolio.

ENGLISH

When determining which English course to take, students should successfully complete English Language Arts I prior to enrolling in junior level English courses (American Literature and Composition III). Students should successfully complete English Language Arts II prior to enrolling in senior level English courses (Composition IV, British Literature, and Applied English and Communication).

ENGLISH/LANGUAGE ARTS I

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 9, 10, 11, 12 SEMESTER: 1 and 2
Intended for the freshmen level.
REMARKS: A fee may be required for this class and payment will be included in student registration.

Course Description (ISBE ID: 01001A000): English Language Arts I includes a basic review of grammar, usage, and mechanics that focuses on effective composition and mastery of the writing process. Students will focus on correct paragraph construction and expand into expository and persuasive essays. Student will read a variety of literature genres including short stories, poetry, plays, novels, and short nonfiction. Students will relate the literature to language, composition, and thinking skills through written analysis, and will also begin to learn the techniques of writing research papers.

ENGLISH/LANGUAGE ARTS IA

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 9, 10, 11, 12 SEMESTER: 1 and 2
Intended for the freshmen level.
REMARKS: A fee may be required for this class and payment will be included in student registration. Placement in this class will be based on teacher recommendation, grades, and MAPS test scores.

Course Description (ISBE ID: 01001A000): English Language Arts I includes a basic review of grammar, usage, and mechanics that focuses on effective composition and mastery of the writing process. Students will focus on correct paragraph construction and expand into expository and persuasive essays. Student will read a variety of literature genres including short stories, poetry, plays, novels, and short nonfiction. Students will relate the literature to language, composition, and thinking skills through written analysis
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ENGLISH/LANGUAGE ARTS II

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 10, 11, 12 SEMESTER: 1 and 2
Intended for the sophomore level.
PREREQUISITE: English Language Arts I or take concurrently
REMARKS: A fee may be required for this class and payment will be included in student registration.

Course Description (ISBE ID: 01002A000): This course offers a balanced focus on composition and literature. Students learn about the alternate aims and audiences of written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message.

COMPOSITION III

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 11, 12 SEMESTER: 1 or 2
Intended for the junior level.
PREREQUISITE: English Language Arts I and English Language Arts II (or English II concurrently)
REMARKS: A fee may be required for this class and payment will be included in student registration.

Course Description (ISBE ID: 01103A000): This one semester course consists of usage, mechanics, and composition work. Students will begin with composing sentences and paragraphs and end with writing a short research report. At the completion of the course, students will be able to demonstrate a mastery of English usage, demonstrate proficiency in mechanics and conventions, understand, identify problems with, and write using parallel structure, revise and write clear sentences eliminating faulty coordination, fragments and run-ons, revise to add variety to sentences and reduce wordiness, understand qualities of paragraphs and compositions, research and write a paper using MLA format.

AMERICAN LITERATURE

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 11, 12 SEMESTER: 1 or 2
Intended for the junior level.
PREREQUISITE: English Language Arts I and English Language Arts II (or English II concurrently)
REMARKS: A fee may be required for this class and payment will be included in student registration.

Course Description (ISBE ID: 01054A000): This course is a survey of various periods of American Literature from 1800 to present. The course focus is on comprehension, analysis, literary vocabulary, and critical thinking. Students will complete several essays and writing assignments accompanying the literature studied. At the completion of this course, students will be able to interpret and analyze various works of literature; define and appropriately use literary terms; understand the context of the historical time periods studied with the literature; complete a well-written literary analysis essay; use appropriate grammar, usage, and mechanics in an essay; and apply vocabulary to the reading of various works of literature.

COMPOSITION IV

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 12 SEMESTER: 1
PREREQUISITE: English Language Arts II and Composition III (or take Comp III concurrently)
REMARKS: A fee may be required for this class and payment will be included in student registration.

Course Description (ISBE ID: 01102A000): The primary focus of this course is the research paper. Advanced writing skills, grammar, usage, and mechanics will be emphasized through various reading workshops and writing assignments. This course is writing intensive. At the completion of the course, students will be able to write a reflective essay, write an analysis paper, use MLA documentation to complete a research project demonstrating analysis, synthesis and evaluation of a literary work, write a proposal, demonstrate proficiency in English usage and mechanics, and model the writing process (prewriting, revising, evaluating, and publishing).

BRITISH LITERATURE

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 12 SEMESTER: 2
PREREQUISITE: English Language Arts II and American Literature (or take American Literature concurrently)
REMARKS: A fee may be required for this class and payment will be included in student registration.

Course Description (ISBE ID: 01056A000): This course focuses on the geographic influence and the historical factors in the development of English literature and the English language. A survey of English literature will be supplemented with other required readings. At the completion of the course, the students will be able to interpret and analyze various works of literature, use background information, historical context and biographical information to evaluate various works of literature, work cooperatively on a project, and apply vocabulary and literary terms while reading different works of literature.

APPLIED ENGLISH AND COMMUNICATIONS

COURSE LENGTH: One year CREDIT: 1.0
COURSE LEVEL: 12 SEMESTER: 1 and 2
REMARKS: A fee may be required for this class and payment will be included in student registration. Placement in this class will be based on teacher recommendation, grades, and MAPS test scores.

Course Description (ISBE ID: 01156A000): This course is on communication and problem solving in workplace situations. Speaking and writing skills needed to effectively communicate on the job will be the focus. Students will work on interviewing techniques, resume writing, and technical writing throughout the course. Permission of instructor required. At the completion of this course, students will be able to complete a resume; complete a cover letter; complete a letter of recommendation; complete a thank you letter, complete a job application form; understand and practice appropriate interviewing techniques; use correct grammar, usage, and mechanics in business and essay writing; interpret and analyze various works of literature; and complete a comparison/contrast essay.

PUBLIC SPEAKING

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 10, 11, 12 SEMESTER: 1 or 2
REMARKS: A fee may be required for this class and payment will be included in student registration.

Course Description (ISBE ID: 01151A000): In this course students will study effective methods of public communication and will give at least two speeches in front of an audience. Students will study organizational skills and methods of effective delivery. At the completion of this course, students will be able to identify the components of the communication process, understand the importance of verbal and nonverbal communication, use the realities of communication apprehension and methods to deal with it, identify the various components of the listening process, use various methods of research to add credibility, communicate through a variety of multimedia techniques, organize and outline a speech, give an informative speech, and give a persuasive speech.

COMPOSITION-INDEPENDENT STUDY/HONORS ENGLISH

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 11, 12 SEMESTER: 1 & 2
PREREQUISITE: English Language Arts I and II and concurrently enrolled in Composition III/American Literature.

Course Description (ISBE ID: 01147A000): Composition-Independent study, often conducted with instructors as mentors, allow students to explore particular topics within the fields of literature and language arts (emphasizing composition). Independent Study courses may serve as an opportunity for students to expand their expertise in a particular application, to explore a topic in greater detail, or to develop more advanced skills.

FAMILY & CONSUMER SCIENCE

FAMILY AND CONSUMER SCIENCE COMPREHENSIVE

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 9,10,11, 12 SEMESTER: 1 and 2
REMARKS: A fee will be required for this class and payment will be included in student registration.

Course Description (ISBE ID: 22201A000): Family and Consumer Science—Comprehensive courses are inclusive studies of the knowledge and skills that are useful for the efficient and productive management of the home. Course topics typically include foods and nutrition; clothing; child development and care; housing design, decoration, and maintenance; consumer decisions and personal financial management; and interpersonal relationships. As a part of the clothing unit, students will learn basic sewing and will be required to make an apron.

CHILD DEVELOPMENT/PARENTING

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 9,10, 11, 12 SEMESTER: 1 and 2
REMARKS: A fee will be required for this class and payment will be included in student registration.

Course Description (ISBE ID: 22204A000): Child Development/Parenting courses provide students with knowledge about the physical, mental, emotional, and social growth and development of children from conception to preschool age. In addition, these courses help students discover how parents should respond to the various stages of childhood. Course content typically includes topics such as prenatal and birth processes; responsibilities and difficulties of parenthood; fundamentals of children's emotional and physical development; and the appropriate care of infants, toddlers, and young children. During this course, students will find out what it takes to care for a baby with various projects. Students will also have the opportunity to observe children in different classroom settings at various ages.

FOOD AND NUTRITION

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 10, 11, 12 SEMESTER: 1 and 2
PREREQUISITE: Family and Consumer Science
REMARKS: A fee will be required for this class and payment will be included in student registration.

Course Description (ISBE ID: 22202A000): Food and Nutrition courses provide 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. This class will educate on the nutritional components of a balanced diet, while placing a heavier emphasis on specific types of food preparation. Although these courses may present career opportunities in the foodservice industry, their emphasis is not career-related.

FOREIGN LANGUAGE

SPANISH I

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 9, 10, 11 SEMESTER: 1 and 2
PREREQUISITE: Students must pass the first semester to continue the class second semester.
REMARKS: A fee may be required for this class and payment will be included in student registration.

Course Description (ISBE ID: 06101A000): This course is an introduction to the Spanish language and people. The four language skills; listening, speaking, reading, and writing; are strongly pursued. Emphasis is placed on grammar and correctly using the language to communicate effectively. Students are also introduced to Spanish culture, such as traditional celebrations, cultural norms, and geography. In order to continue with the second semester of Spanish I, a grade of "D" or higher must be met in the first semester. At the end of this course, students will be able to: recognize basic language patterns, respond to and ask simple questions as they carry on a conversation, broadly describe people and objects, identify Spanish speaking countries, and describe daily activities in the present tense.

SPANISH II

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 10, 11, 12 SEMESTER: 1 and 2
PREREQUISITE: Completion of Spanish I with a C- or higher. Students must pass the first semester to continue the class second semester.
REMARKS: A fee may be required for this class and payment will be included in student registration.

Course Description (ISBE ID: 06102A000): This course is a continuation of Spanish I with an emphasis on authentic conversational skills in the target language. Students continue to work towards improvement in the four language skills; writing, reading, speaking, and listening. They delve deeper into Spanish cultural themes, exploring specific time periods and events in Latin American history, all contributing to the Spanish culture that exists today. In order to continue with the second semester of Spanish II, a grade of "D" or higher must be met in the first semester. At the end of this course, students will be able to: comprehend and compose short passages, describe events in both the present and past tenses, carry on a conversation about a specific topic with vocabulary with which they are familiar, and distinguish common characteristics of hispanic culture.

SPANISH III

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 11, 12 SEMESTER: 1 and 2
PREREQUISITE: Completion of Spanish II with a C- or higher. Students must pass the first semester to continue the class second semester.
REMARKS: A fee may be required for this class and payment will be included in student registration.

Course Description (ISBE ID: 06103A000): This course is a continuation of Spanish I and II. The objectives of this course are both linguistic and cultural as students continue to sharpen grammar skills, with a continued emphasis on exhibiting conversational abilities in authentic contexts. Spanish culture is further explored, looking into the lives of today's Spanish speakers, specifically the hardships many face. Tough topics such as immigration and poverty come into play as students look at these adversities from the perspectives of Spanish speakers. In order to continue with the second semester of Spanish III, a grade of "D" or higher must be met in the first semester. At the end of this course, students will be able to: deliver complete speeches and presentations, describe events in the past, present, and future tenses, compose short stories and informational essays, engage in typical daily conversations or conversations about a topic of which they have studied the vocabulary, and describe the difficulties that many Spanish speaking countries in the world face.

SPANISH IV

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 12 SEMESTER: 1 and 2
PREREQUISITE: Completion of Spanish III with a C- or higher. Students must pass the first semester to continue the class second semester.
REMARKS: A fee may be required for this class and payment will be included in student registration.

Course Description (ISBE ID: 06104A000): This course is a continuation of Spanish I, II, and III. Congruent with the objectives in preceding courses, students focus on using the target language to effectively communicate in the everyday world. Content covered furthers student knowledge in linguistic aspects of the language as well as cultural. Students exhibit more autonomy in this course as they make choices about how Spanish will be included in their future plans. The class explores career and collegiate opportunities to utilize and continue pursuing Spanish knowledge. In order to continue with the second semester of Spanish III, a grade of "D" or higher must be met in the first semester. At the end of this course, students will be able to: carry on conversations, compose papers to defend positions, express opinions and beliefs, utilize the subjunctive verb tense, and explain their future plans.

HEALTH AND PHYSICAL EDUCATION

DRIVERS' EDUCATION - CLASSROOM AND LABORATORY

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 9, 10, 11, 12 SEMESTER: 1 or 2
Intended for freshmen level
REMARKS: A fee may be required for this class and payment will be included in student registration.

Course Description (ISBE ID: 08152A000): The purpose of this course is to teach every student driving habits, beginning with a minimum of 30 hours of classroom instruction followed by 6 hours of behind the wheel instruction. In order to enroll, students must have received a passing grade in at least 8 semester hours in the previous two semesters. (Illinois Administrative Code 23:252.25) Enrollment in the classroom will be determined by birth date. Late entries will not be placed in Driver Education until the beginning of a new course. During the course, the student will be given the written exam. After passing the written exam with an 80% or better and turning 15 years old, the student will be given an application for an instruction permit. To obtain an instruction permit from a Secretary of State office (DMV) a student needs to bring their application, pass a vision test, pay twenty dollars and prove their legal name by an official birth certificate. To obtain a driver's license at the age of 16 by Illinois' Graduated License Law students need to hold the instruction permit for nine months, drive 50 hours of practice with someone over 21, prove residency and social security number, and pass a driving test.

HEALTH EDUCATION

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 9, 10, 11, 12 SEMESTER: 1 or 2
Intended for freshmen level
REMARKS: State guidelines require this course along with CPR training for graduation.

Course Description (ISBE ID: 08051A000): Topics covered include: mental health topics: stress, personalities, self-esteem, mental disorders, suicide prevention; Social health topics: families, relationships, violence prevention, abuse and neglect, abstinence; Physical health topics: human growth and development, aging, death, and dying, nutrition, male and female reproductive anatomy, sexually transmitted diseases, prevention of disease, prevention of alcohol, tobacco, and other drug abuse, and injury prevention and safety.

COMMUNITY HEALTH

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 11, 12 SEMESTER: 1 and 2

Course Description (ISBE ID: 08053A000): Community Health courses covers physical health topics of detailed discusses of the different systems of the body, diseases and disorders associated with them, prevention and control of such, nutrition, and stages of development. Other additional topics include available community resources, career options, health related topics within the health field.

PHYSICAL EDUCATION

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 9, 10, 11, 12 SEMESTER: 1 and 2
REMARKS: Students must be enrolled in Physical Education every semester unless exempted by board policy.

Course Description (ISBE ID: 08001A000): Regular physical activity is necessary to sustain physical fitness and health. Performance of physical activities involves competency in a wide range of motor, nonmotor, and manipulative skills. Learning to follow directions and rules enhances enjoyment and success in both recreational and competitive activities. Students will learn the elements of teamwork (communication, decision making, cooperation, leadership) and how to adjust individual needs to team needs. Knowing how to follow procedures, accept leadership from others, participate actively, and lead when appropriate will serve the student on and off the playing field.

INDUSTRIAL TECHNOLOGY

FOUNDATIONS OF TECHNOLOGY

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 9, 10, 11, 12 SEMESTER: 1
REMARKS: A fee may be required for this class and payment will be included in student registration. A maximum of 20 students may be enrolled in this class.

Course Description (ISBE ID: 21052A002): This course focuses on the three dimensions of technological literacy: knowledge, ways of thinking and acting, and capabilities, with the goal of students developing the characteristics of technology literate citizens. The course employs teaching/learning strategies that enable students to build their own understanding of new ideas. It is designed to engage students in exploring and deepening their understanding of "big ideas" regarding technology and makes use of a variety of assessment instruments to reveal the extent of understanding in the following areas: engineering design, manufacturing technologies, construction technologies, energy & power, information & communication technologies.

CARPENTRY

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 9, 10, 11, 12 SEMESTER: 2
PREREQUISITE: Foundations of Technology
REMARKS: A fee may be required for this class and payment will be included in student registration. A maximum of 20 students may be enrolled in this class.

Course Description (ISBE ID: 17003A000): Carpentry courses provide information related to the building of wooden structures, enabling students to gain an understanding of wood grades and construction methods and to learn skills such as laying sills and joists; erecting sills and rafters; applying sheathing, siding, and shingles; setting door jambs; and hanging doors. Carpentry courses may teach skills for rough construction, finish work, or both. Students learn to read blueprints, draft, use tools and machines properly and safely, erect buildings from construction lumber, perform finish work inside of buildings, and do limited cabinet work. Carpentry courses may also include career exploration, good work habits, and employability skills.

PRODUCTION TECHNOLOGY

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 10, 11, 12 SEMESTER: 1
PREREQUISITE: Foundations of Technology
REMARKS: A fee may be required for this class and payment will be included in student registration. A maximum of 20 students may be enrolled in this class.

Course Description (ISBE ID: 13052A001): Production Technology 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, materials and processes, tools and equipment including computers, safety procedures, corporate structure, management, research and development, production planning, mass production, marketing and servicing. In construction, students are exposed to site preparation, foundations, building structures, installing utilities, and finishing and servicing structures.

BUILDING MAINTENANCE

COURSE LENGTH: One Semester CREDIT 0.5
COURSE LEVEL: 10, 11, 12 SEMESTER: 2
PREREQUISITE: Foundations of Technology, Production Technology, and Carpentry
REMARKS: A fee may be required for this class and payment will be included in student registration. A maximum of 24 students may be enrolled in this class.

Course Description (ISBE ID: 17009A000): Building Maintenance courses train students to maintain commercial, industrial, and residential buildings and homes. Instruction is provided in the basic maintenance and repair of air conditioning, heating, plumbing, electrical, and other mechanical systems. Topics covered may include identifying and using hand and power tools safely; installing and repairing floor coverings, walls, and ceilings; installing and repairing doors, windows, screens, and cabinets; applying finishes to prepared surfaces; and repairing roofs, masonry, plumbing, and electrical systems.

COMPUTER AIDED DRAFTING (CAD)

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 11, 12 SEMESTER: 1
PREREQUISITE: Foundations of Technology
REMARKS: A fee is required for this class and payment will be included in student registration. A maximum of 24 students may be enrolled in this class. The 2018-19 school year cost was $36.84, but this can change from year to year.

Course Description (ISBE ID: 21103A001): This is a dual credit class equivalent to two semester hours at Lake Land College (Computer Aided Drafting I - CAD 056). This course is focused on the principles, concepts, and use of complex graphic tools utilized in the field of architecture, structural systems, and construction trades. Emphasis is placed on the application of CAD tools in the creation of floor plans, foundation plans, basic roof design, section and details, and elevation drawings. Mathematics, science, and visual design concepts are reinforced. Work-based learning strategies appropriate for this course are apprenticeship and cooperative education. Hands on experience and SkillsUSA/IDEA activities provide many opportunities to enhance classroom instruction and career development.

INTRODUCTION TO TECHNICAL DRAFTING

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 11, 12 SEMESTER: 2
PREREQUISITE: Foundations of Technology
REMARKS: A fee is required for this class and payment will be included in student registration. A maximum of 24 students may be enrolled in this class. The 2018-19 school year cost was $36.84, but this can change from year to year.

Course Description (ISBE ID: 21102A001): This is a dual credit class equivalent to two semester hours at Lake Land College (Introduction to Drafting - TEC 045). This course introduces students to the use of simple and complex graphic tools used to communicate and understand ideas and concepts found in the areas of architecture, manufacturing, engineering, science and mathematics. Topics include business meeting skills and goal setting strategies, classical representation methods such as sketching, geometric construction techniques, orthographic projection, and dimensioning. In a basic technical drafting class, students learn about topics like geometrics, sectional views and multiview drawing. Students also study lettering, tolerance and dimensioning. Students gain experience with paper and cardboard models.

WELDING

COURSE LENGTH: 1 Semester CREDIT: 1.0
COURSE LEVEL: 11, 12 SEMESTER: 1
PREREQUISITE: Foundations of Technology
REMARKS: A fee may be required for this class and payment will be included in student registration. A maximum of 20 students may be enrolled in this class. This class will be offered yearly.

Course Description (ISBE ID: 13207A001) - This course assists students in gaining the knowledge and developing the basic skills needed to be successful in welding technology. Units of instruction include arc, TIG and MIG welding, metallurgy, cutting metal using arc, plasma, and oxy-gas. In addition, students learn the basics of blueprint reading, precision measuring, layout, and production process planning.

MANUFACTURING I

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 11, 12 SEMESTER: 2
PREREQUISITE: Foundations of Technology, Welding
REMARKS: A fee may be required for this class and payment will be included in student registration. A maximum of 20 students may be enrolled in this class. This class will be offered yearly.

Course Description (ISBE ID: 13002A000) - Students will learn to use different software programs such as Adobe Illustrator, Photoshop, CAD, RD Works, Corel Draw. These programs will be used to create projects using a Plasmacam, CNC Machine, and Lazer engraver. Students will be trained in the safe and proper use of these machines. This course will introduce business terms such as quoting potential project costs, bookkeeping, advertising, sales, budgeting, projecting timelines, etc. Students will learn how to create beginner level projects, such as a firepit.

MANUFACTURING II

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 12 SEMESTER: 1,2
PREREQUISITE: Foundations of Technology, Welding, Manufacturing I
REMARKS: A fee may be required for this class and payment will be included in student registration. A maximum of 20 students may be enrolled in this class. This class will be offered yearly. The student must have earned a B or better in four semesters of Industrial Technology courses, including Welding and Manufacturing I. The student must also be approved by the instructor.

Course Description (ISBE ID: 13002A000) -This class is the most advanced Industrial Arts course offered at ACHS. Students will be expected to know how to properly use all of the tools in the shop to create projects for the class business to sell. Student designing, welding, carpentry, and business skills will all be enhanced. Students will work with other classes within ACHSand local businesses to create and sell products and will learn how to price products using data from past sales and from the Economics class at ACHS. Students will be encouraged to explore job opportunities within the trades field as well as develop a roadmap to success in that trade if desired. This class will be exposed to local business owners where students can observe their company and get a real taste of what they do on a daily basis.

MATHEMATICS

ALGEBRA I

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 9, 10, 11 SEMESTER: 1 and 2
REMARKS: Scientific calculators are required for this class.

Course Description (ISBE ID: 02052A000): The focus of this course is around families of functions, with an emphasis on linear and quadratic functions. Students will learn multiple ways of representing these functions including: verbally, as equations, tables, and graphs with and without the use of technology. Students will also study how to apply functions to different real-world situations.

ALGEBRA IA

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 9, 10, 11 SEMESTER: 1 and 2
REMARKS: Scientific calculators are required for this class. Placement in this class will be based on teacher recommendation, grades, and MAPS test scores.

Course Description (ISBE ID: 02052A000): The focus of this course is linear equations and graphs. Students will learn the order of operations, distributive property, solving equations and inequalities with multiple variables. They will also learn to graph and write linear equations. Students be prepared Algebra II (Part 1).

GEOMETRY

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 10, 11, 12 SEMESTER: 1 and 2
PREREQUISITE: Algebra I or recommendation of eighth grade math teacher.
REMARKS: Scientific calculators are required for this class.

Course Description (ISBE ID: 02072A000): Students will develop reasoning and problem solving skills as they study topics such as congruence and similarity, and apply properties of lines, polygons, and circles. They will apply skills involving length, perimeter, area, circumference, surface area, and volume to solve real-world applications.

INFORMAL GEOMETRY

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 10, 11, 12 SEMESTER: 1 and 2
PREREQUISITE: Consent of instructor
REMARKS: Scientific calculators are required for this class.

Course Description (ISBE ID: 02071A000): This course focuses on the key topics that provide a strong foundation in the essentials of geometry. The key topics include inductive/deductive reasoning, polygons, circles, and trigonometric functions. The emphasis will be placed on triangles and quadrilaterals, studying properties from each, proving congruence and similarity, and finding area and volume.

ALGEBRA II - A,B

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 10, 11, 12 SEMESTER: 1 and 2
PREREQUISITE: Completion of Geometry or Informal Geometry
REMARKS: Scientific calculators are required for this class. Class placement will be based on teacher recommendation, grades, and MAPS test scores.

Course Description (ISBE ID: 02056A000): This intermediate algebra course is a continuation of Algebra I; students will make connections between algebraic, tabular, and graphical models. An emphasis is placed on understanding relations and functions, including linear equations, polynomials, rational, and radical functions. Real world applications are a part of the class.

GENERAL APPLIED MATH

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 11, 12 SEMESTER: 1 and 2
PREREQUISITE: Completion of Geometry or Informal Geometry
REMARKS: Scientific calculators are required for this class. This class is geared toward students who are not college bound and is an alternative to Algebra II as a third year of math. Class placement will be based on teacher recommendation, grades, and MAPS test scores.

Course Description (ISBE ID: 02151A000): This class reinforces general math skills, extends these skills to include some prealgebra and algebra topics and uses these skills in a variety of practical, consumer, business, and occupational applications. Course topics include rational numbers, measurement, basic statistics, ratio and proportion, basic geometry, formulas, and simple equations.

TRIGONOMETRY/MATH ANALYSIS

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 11, 12 SEMESTER: 1 and 2
PREREQUISITE: Completion of Algebra II (recommended grade of C or higher)
REMARKS: Graphing calculators such as the TI-83 or TI-84 series are required. Calculators are available for rental. See teacher for details. There is a dual credit fee associated with the class regardless if the student takes the class for dual credit or not (because the textbook is rented from LakeLand). The 2019-20 school year cost was $152.10, but this can change from year to year. **STUDENTS MUST ACHIEVE A CERTAIN SAT OR ACCUPLACER SCORE IN ORDER TO RECEIVE DUAL CREDIT FOR THIS CLASS. IF SCORE IS NOT ACHIEVED, STUDENTS STILL MUST PAY THE DUAL CREDIT COSTS.**

Course Description (ISBE ID: 02105A000): This is a dual credit class equal to 5 semester hours at Lake Land College (MAT 140). This course prepares students for eventual work in calculus. Topics include the study of right trigonometric and circular functions, inverses, and graphs; trigonometric identities and equations; solutions of right and oblique triangles; complex numbers; numerical tables; polynomial, logarithmic, exponential, and rational functions and their graphs; and mathematical induction.

INFERENTIAL PROBABILITY STATISTICS

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 11, 12 SEMESTER: 1 and 2
PREREQUISITE: Completion of Algebra II
REMARKS: Graphing calculators of TI-83 series, TI-84 series are required. Calculators are available for rental. See teacher for details. There is a dual credit fee associated with the class regardless if student takes class for dual credit or not (because the textbook is rented from LakeLand). The 2019-20 school year cost was $91.26, but this can change from year to year. **STUDENTS MUST ACHIEVE A CERTAIN SAT OR ACCUPLACER SCORE IN ORDER TO RECEIVE DUAL CREDIT FOR THIS CLASS. IF SCORE IS NOT ACHIEVED, STUDENTS STILL MUST PAY THE DUAL CREDIT COSTS.**

Course Description (ISBE ID: 02202A000): This is a dual credit class equal to 3 semester hours at Lake Land College (MAT 125). Students will learn to conduct statistical experiments, evaluate results and understand a variety of statistical measurement techniques. 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, random sampling, correlation, central limit theorem, confidence intervals, and hypothesis testing.

DISCRETE MATHEMATICS

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 11, 12 SEMESTER: 1 and 2
PREREQUISITE: Completion of Algebra II
REMARKS: Graphing calculators of TI-83 series, TI-84 series are required. Calculators are available for rent. See teacher for details. There is a dual credit fee associated with the class regardless if the student takes the class for dual credit or not (because the textbook is rented from LakeLand). The estimated cost for the 2019-20 school year would have been $91.26, but this can change from year to year. **STUDENTS MUST ACHIEVE A CERTAIN SAT OR ACCUPLACER SCORE IN ORDER TO RECEIVE DUAL CREDIT FOR THIS CLASS. IF SCORE IS NOT ACHIEVED, STUDENTS STILL MUST PAY THE DUAL CREDIT COSTS.**

Course Description (ISBE ID: 02102A000): This is a dual credit class equal to 3 semester hours at Lake Land College (MAT 210). An introduction to Finite Mathematics, matrices, linear systems of equations and inequalities, linear programming, counting theory and probability. This course is geared towards students planning to study any type of business in college.

CALCULUS

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 12 SEMESTER: 1 & 2
PREREQUISITE: Completion of Trigonometry/Math Analysis
REMARKS: Graphing calculators of TI-83 series, TI-84 series are required. Calculators are available for rent. See teacher for details. There is a dual credit fee associated with the class regardless if student takes class for dual credit or not (because the textbook is rented from LakeLand). The 2019-20 school year cost was $152.10, but this can change from year to year. **STUDENTS MUST ACHIEVE A CERTAIN SAT OR ACCUPLACER SCORE IN ORDER TO RECEIVE DUAL CREDIT FOR THIS CLASS. IF SCORE IS NOT ACHIEVED, STUDENTS STILL MUST PAY THE DUAL CREDIT COSTS.**

Course Description (ISBE ID: 02202A000): This is a dual credit class equal to five semester hours at Lake Land College (MAT 241). The course will cover differential and integral calculus of elementary functions of one variable. Applications studied will include rates of change, optimization, curve sketching, and area under a curve.

MUSIC

GENERAL BAND

COURSE LENGTH: One Year CREDIT: 1.0 per year
COURSE LEVEL: 9, 10, 11, 12 SEMESTER: 1 and 2
REMARKS: A mandatory Marching Band Camp will be held in August that all band members are expected to attend.

Course Description (ISBE ID: 05101A000): Band is a performance class offered to any student who plays an instrument included in the standard band instrumentation. Students enrolled in this course are required to participate in all band performances. Class work will include preparation and performances at extracurricular activities and other public performances as scheduled by the director. Grades in the course are based on participation, tests, homework and performances. Music fundamentals, appreciation and theory as they pertain to band literature will be included. To be successful, band members must agree to accept the responsibility of extra rehearsals and performances outside of school time.

CHORUS

COURSE LENGTH: One Year CREDIT: 1.0 per year
COURSE LEVEL: 9, 10, 11, 12 SEMESTER: 1 and 2

Course Description (ISBE ID: 05110A000): Chorus is a performance class offered to any Altamont High School student. Students enrolled in this course are required to participate in all choir performances. Basic fundamentals of choral music such as tone production, rhythm, diction, balance and blend are taught. A wide range of choral literature is studied as well as theory, sight singing and ear training. Class work will include preparation for and participation in public performances as scheduled by the director. Grades in the course are based on participation, tests, homework and performances. Chorus members must agree to accept the responsibility of extra rehearsals and performances outside of school time.

MUSIC THEORY AND APPRECIATION

COURSE LENGTH: One OR Two Semesters CREDIT: 1.0 per year
COURSE LEVEL: 11, 12 SEMESTER: 1 and/or 2
REMARKS: Student must have the ability to read musical notation as well as demonstrate performance competency on an instrument or in voice. Students must be enrolled in band, chorus or private piano instruction. Enrollment dependent on departmental approval.

Course Description (ISBE ID: 0511A000): Music Theory and Appreciation is designed to encompass an in-depth study of the fundamental elements of music: pitch, rhythm, melody, harmony and form; and to explore the theoretical constructs of the 17th, 18th, 19th, and 20th centuries. Through composition, analysis, critical listening, and performance, the elements of music will be examined for their distinctive roles in musical organization. The course will also provide an overview of the historical, cultural, and artistic setting of the works utilized for illustrative purposes.

SCIENCE

PHYSICAL SCIENCE

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 9, 10, 11, 12 SEMESTER: 1 and 2
REMARKS: Placement in this class will be based on teacher recommendation, grades, and MAPS test scores.

Course Description (ISBE ID: 03159A000): Physical Science courses involve the study of the structures and states of matter. Typically (but not always) offered as introductory survey courses, they may include such topics as forms of energy, wave phenomenon, electromagnetism, and physical and chemical reactions. In our course, students learn how physical science affects our universe and solar system, weather and atmosphere, natural cycles on earth, and geological formations and activity.

CONCEPTUAL BIOLOGY

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 9, 10 SEMESTER: 1 and 2
REMARKS: Placement in this class will be based on teacher recommendation, grades, and MAPS test scores.

Course Description (ISBE ID: 03062A000): This introductory biology class focuses on the study of life as used in everyday experiences. Course topics include cellular biology, importance of leaves, ecology, evolution, the scientific method, genetics, classifications, and relationships found within a community. Students will be required to do hands-on activities and projects to reinforce the topics.

BIOLOGY

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 9, 10, 11, 12 SEMESTER: 1 and 2
Intended for the freshman/sophomore level.
REMARKS: A fee may be required for this class and payment will be included in student registration.

Course Description (ISBE ID: 03051A000): Introductory biology class focuses on the science of biology, including the tools and procedures of biology. Emphasis is placed on cell biology including the structure and function of the cell, photosynthesis and cell respiration, and cell growth and division. Course topics include genetics, natural selection, evolution and the fossil record, the scientific method, graphing, and an introduction to chemistry, classification and characteristics of living things. Students will be required to do hands-on activities and projects to reinforce the topics. Alignment to the Next Generation Science Standards is ongoing.

AP BIOLOGY

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 11, 12 SEMESTER: 1 and 2
PREREQUISITE: C- or better in Biology I and Chemistry I, or by instructor approval.
REMARKS: A fee may be required for this class and payment will be included in student registration. This course will be offered in school years beginning with an even number.
ADDITIONAL REMARKS: The advanced placement test fee is $94.00. This fee is for the OPTIONAL College Board test. If a student receives a passing score on the advanced placement test, it would allow for the course to be used for college credit.

Course Description (ISBE ID: 03056A000): This course is designed to deepen the student's understanding of the "4 Big Ideas" in Biology.

- Big Idea 1: The process of evolution drives the diversity and unity of life. Evolution is a change in the genetic makeup of a population over time, with natural selection being a major driving mechanism.
- Big Idea 2: Biological systems utilize free energy from photosynthesis, chemosynthesis, cell respiration and fermentation, and molecular building blocks to grow, reproduce and maintain dynamic homeostasis.
- Big Idea 3: Living systems store, retrieve, transmit and respond to information essential to life processes. DNA as the hereditary material. Mitosis, Meiosis and fertilization.
- Big Idea 4: Biological systems interact, and these systems and their interactions possess complex properties.

The course will follow a College Board approved syllabus that according to the College Board Curriculum Framework shifts the course "from a traditional "content coverage" model of instruction to one that focuses on enduring, conceptual understandings and the content that supports them. This approach will enable students to spend less time on factual recall and more time on inquiry-based learning of essential concepts, and will help them develop the reasoning skills necessary to engage in the science practices used throughout their study of AP Biology."

ANATOMY AND PHYSIOLOGY

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 11, 12 SEMESTER: 1 and 2
PREREQUISITE: C- or better Biology I and Chemistry I, or by instructor approval
REMARKS: A fee may be required for this class, and payment will be included in student registration.

Course Description (ISBE ID: 03053A000): This is a course designed for upper level students who want to do additional work in biology. Topics covered include: the organization of the human body, the supporting framework and movement, coordination and control of the body, the digestive system, the respiratory system, the transport systems, blood and the genetics of blood type, the regulatory systems and metabolism, the endocrine system, reproduction, heredity, cell physiology. Strong focus on comparative anatomy during the mammal dissection. Alignment to the Next Generation Science Standards is ongoing.

CHEMISTRY

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 10, 11, 12 SEMESTER: 1 and 2
PREREQUISITE: C- or better in Algebra I and Biology
REMARKS: A scientific calculator is required for the course. A fee may be required for this class, and payment will be included in student registration. This course is intended to be a college preparation course.

Course Description (ISBE ID: 03101A000): Chemistry involves the study of the composition of matter. This class involves an in depth discussion and investigation of matter and its properties. Historic and current theories of the atom are discussed as well as the history of the periodic table. Students are introduced to the concepts of the mole, stoichiometry, and chemical reactions. Additional content includes laboratory safety, naming compounds and writing chemical formulas, extracting elemental information from the periodic table, nuclear reactions, ionic and covalent compounds, molecular shapes, polarity and the interactions between atoms and molecules. The course is presented in a lecture / lab format.

CHEMISTRY-ADVANCED STUDIES

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 11, 12 SEMESTER: 1 and 2
PREREQUISITE: C- or better in Chemistry I
REMARKS: A scientific calculator is required for the course. A fee may be required for this class, and payment will be included in student registration. This course is intended to be a college preparation course.

Course Description (ISBE ID: 03102A000): Students discuss in more detail and depth topics introduced in Chemistry I, as well as new topics not discussed in Chemistry I. Those topics include Thermochemistry, Condensed States of Matter, Gas Laws, Solution Preparation, Reaction Equilibrium, Acids-Base Reactions and Buffers, Redox Chemistry, and, if time allows, an introduction to Organic Chemistry. Students are expected to be very self-directed. This class is designed to prepare the college bound student for a college level chemistry class.

PHYSICS

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 11, 12 SEMESTER: 1 and 2
PREREQUISITE: C- or better in Geometry, highly recommended to have completed Trigonometry or take it concurrently.
REMARKS: A scientific calculator is required for the course. A fee may be required for this class, and payment will be included in student registration. This course is intended to be a college preparation course for students planning to major in a science or science-related field in college.

Course Description (ISBE ID: 03151A000): Physics is the study of the interactions between forces, energy, and matter. We will study the relationships between motion, force, work, energy, gravity, speed, acceleration, and friction. Rotational and circular motion as well as projectile motion will also be discussed. Waves, sound, and light will be studied as well as electricity and magnetism. Students will compete in several design competitions throughout the year including a toothpick bridge, a mousetrap catapult, and a mousetrap car. This class requires extremely strong problem solving and logic skills and is not for the student seeking an easy science class. Physics is extremely challenging due to the fact that students must apply higher level math concepts to problem solving. Many problems are multifaceted with multiple steps. With practice you will become adept to physics problem solving.

SOCIAL SCIENCE

WORLD HISTORY

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 9, 10, 11, 12 SEMESTER: 1 and 2
REMARKS: It must have 10 students enrolled. This course will be offered every year.

Course Description (ISBE ID: 04051A000): This course begins with a study of world geography, including the 5 Themes of Geography and mapping skills. The first half of the course focuses on Prehistory, working through African, European and Asian history until the Roman Era. The second half of the course begins with early migration to the Americas and focuses back on European history including the Middle Ages, the Crusades and ending with the Scientific Revolution. The course will cover many different topics including governments, economics, religions, geography and culture.

PARTICULAR TOPICS IN U.S. HISTORY

COURSE LENGTH: One OR Two Semesters CREDIT: 0.5 or 1.0
COURSE LEVEL: 10, 11, 12 SEMESTER: 1 and/or 2
REMARKS: It must have 10 students enrolled.

Course Description (ISBE ID: 04109A000): This course examines the last half of the 20th Century, focusing on presidential administrations. It begins with President John Kennedy and moves through each president's administration until present day. It analyzes various events and challenges faced by the presidents during their time in office. Further, students will gain a knowledge of legislature passed in the from the 1960's to present day, working to understand the effect it has on our lives today.

U. S. HISTORY-COMPREHENSIVE

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 11 SEMESTER: 1 and 2
REMARKS: State guidelines require this course for graduation.

Course Description (ISBE ID: 04101A000): This CAN BE a dual credit course equal to 6 semester hours at Eastern Illinois University (Fall HIS 2010 History of U.S. to 1877 and Spring HIS 2020 History OF U.S. Since 1877 - 3 credit hours each semester CAN BE acquired). If choosing dual credit, the course fee is $433.50 for three credit hours to be paid to Eastern Illinois University. Payment plans are available. This course provides students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. This typically includes a historical overview of political, military, scientific, and social developments. The course will further examine American culture through a chronological survey of major issues, movements, people (individuals and groups), and events in the United States. This course also requires that students have a knowledge of the 50 states and their capitals.

PSYCHOLOGY

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 11, 12 SEMESTER: 1 and 2
REMARKS: This course will be offered in school years beginning with an even number.

Course Description (ISBE ID: 04254A000): This course is the study of psychology and attempts to answer the questions of why man and woman behave the way he/she does and what are the reasons for this behavior. This class is set up to introduce the student to the basic methods and principles of these behaviors. The course covers concepts and principles in: scientific method, history and systems, sensation, perception, learning, memory, and motivation/emotion. Additional content includes growth from conception to death focusing on cognitive, physical, and emotional development; psychological disorders; how the nervous system, brain, endocrine system and heredity affect behavior; how intelligence is defined and measured; and how people learn.

SOCIOLOGY

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 11, 12 SEMESTER: 1 and 2
REMARKS: This course will be offered in school years beginning with an odd number.

Course Description (ISBE ID: 04258A000): Sociology is the study of how society reacts to everyday social, economic, and cultural occurrences. Students are encouraged to apply life experiences, current events, and opinions to the major concepts and topics presented. Topics include social issues, such as abortion, norms, deviance, dating, family life, crime, ethnic relations, and age/gender.

SELF-MANAGEMENT/FAMILY AND CAREER RELATIONSHIPS

COURSE LENGTH: One Year CREDIT: 1.0
COURSE LEVEL: 11, 12 SEMESTER: 1 and 2
REMARKS: It must have 10 students enrolled. There is a dual credit fee associated with the class regardless if a student takes the class for dual credit or not (because the textbook is rented from LakeLand). The 2019-20 school year cost was $60.84, but this can change from year to year.

Course Description (ISBE ID: 22207A001): This is a dual credit class equivalent to two semester hours at Lake Land College (Strategies for Success - SFS 101). The course is designed to develop students into master learners throughout their academic and life settings by becoming more focused, productive individuals. Class focuses on necessary skills for constructive and efficient learning including: individual learning styles, improving memory, reading strategies and comprehension, note taking skills, testing strategies, communication skills, cultural diversity, money management, health and wellness, goal-setting, decision making, career planning and exploration, and researching available resources for academic and life settings.

CIVICS

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 12 SEMESTER: 1 or 2
REMARKS: State guidelines require this course for graduation.

Course Description (ISBE ID: 04161A000): This course is a study of the government system of the United States as well as the role of citizens within the system. It will examine the roles and responsibilities of citizens to participate in the political process, and the relationship of the individual to the law and legal system. Further, it will discuss each branch of government in order to determine the separation of powers and checks and balances found in the branches of government. A United States Constitution test must be passed.

ECONOMICS

COURSE LENGTH: One Semester CREDIT: 0.5
COURSE LEVEL: 12 SEMESTER: 1 or 2
REMARKS: State guidelines require this course for graduation.

Course Description (ISBE ID: 04201A000): Economics courses provide students with an overview of economics with primary emphasis on the principles of microeconomics and the U.S. economic system. These courses may also cover topics such as principles of macroeconomics, international economics, and comparative economics. Economic principles may be presented in formal theoretical contexts, applied contexts, or both. This course also includes personal finance foundations.

EXTERNAL COURSES

CONSTRUCTION TRADES EDUCATIONAL CURRICULUM (CTEC)

COURSE LENGTH: One Year CREDIT: 2.0
COURSE LEVEL: 12 SEMESTER: 1 and 2
REMARKS: Students must apply for the CTEC program in December/January of their junior year. Students who are selected will be notified by January/February of their junior year.

Course Description (ISBE ID:): The CTEC program exposes students to the various skills required by the construction trades. This course provides fundamental instruction in trades areas such as plumbing, electrical, framing, roofing, masonry, carpentry, and HVAC. The course is taught in Effingham by licensed and active trades people and business owners. Students involved in this program must pass OSHA 10 certification prior to participating in the class. OSHA 10 training will be scheduled during the summer and students must attend. There is a recommended tax deductible donation to participate in the class and students are expected to provide their own transportation to and from class.

CREATING ENTREPRENEURIAL OPPORTUNITIES (CEO)

COURSE LENGTH: One Year CREDIT: 2.0
COURSE LEVEL: 12 SEMESTER: 1 and 2
REMARKS: Students must apply for the CEO program in the second semester of their junior year. Students who are selected will be notified by the end of their junior year.

Course Description (ISBE ID: 12053A000): The CEO program acquaints students with the knowledge and skills necessary to own and operate their own businesses. Topics from several fields typically form the course content: economics, marketing principles, human relations and psychology, business and labor law, legal rights and responsibilities of ownership, business and financial planning, finance and accounting, and communication. Several topics surveyed in Business Management courses may also be included. During the class, students will create a class business as well as a personal business. Students are expected to provide their own transportation to and from class.

MANUFACTURING SKILLS

COURSE LENGTH: Year long CREDIT: 2.0
COURSE LEVEL: 12 SEMESTER: 1 & 2
REMARKS: This class will be offered at Effingham High School from 7:00 am until 8:41 am.
PREREQUISITE: Must be a senior and have 2.0 grade point average or better to qualify for dual credit.

Course Description (ISBE ID: 13102A001): This course offers students the ability to gain experience in the manufacturing field. Students will be exposed to Robotics, Plastics Technology, Mechanical Drive Systems, Fluid Power, Mechanical Fabrication, Milling, and Metrology. They will work both hands on with these systems as well as through computer simulations. Students will also learn about OSHA regulations in the workplace and general shop safety. Students will visit and learn about manufacturers in the area and the opportunities available within the community. Upon successful completion of the course a student may earn a 16 hour certificate from Lake Land College. Dual Credit status is forfeited if the student misses more than ten days in one semester, with the exception of school-sponsored activities. Dual credit courses include: TEC 043–1 sem. hour, TEC 046– 2 sem. hours, TEC 047 – 2 sem. hours, TEC 048– 3 sem. Hours, TEC 049– 2 sem. hours, TEC 051– 2 sem. hours, TEC 055– 1 sem. hour, TEC 090– 3 sem. Hours. Cost: $223.00 (dual credit fee).

PRODUCTION METAL I (WELDING I)

COURSE LENGTH: Semester CREDIT: 1.0
COURSE LEVEL: 12 SEMESTER: 1
REMARKS: This class will be offered at Effingham High School from 8:46 am until 9:32 am.
PREREQUISITE: Must be a senior and have 2.0 grade point average or better to qualify for dual credit.

Course Description (ISBE ID: 13207A001): This course offers a learning experience which provides students with opportunities to develop competencies needed for employment in metalworking/welding occupations. Course content will emphasize: safety practices; selecting materials; performing bench work operations; performing measurements; layouts; performing oxy-fuel welding; thermal cutting; and MIG, TIG, and ARC welding. Students will use a variety of processes in separating, combining, and forming metal materials to prepare them for occupations in the welding industry. Dual credit status is forfeited if the student misses more than ten days in one semester, with the exception of school-sponsored activities. College course info: WEL 042 (Introduction to Welding) – 3 sem. hours. Course fee: $56.85 ($41.85 dual credit fee, $15.00 class fee).

PRODUCTION METAL II (WELDING II)

COURSE LENGTH: Semester CREDIT: 1.0
COURSE LEVEL: 12 SEMESTER: 2
REMARKS: This class will be offered at Effingham High School from 8:46 am until 9:32 am.
PREREQUISITE: Must be a junior or senior student and have 2.0 grade point average or better to qualify for dual credit.

Course Description (ISBE ID: 13207A002): This course will progress with skills learned in Production Metal I. Course content will emphasize: safety practices; selecting materials; performing bench work operations; performing measurements; layouts; performing oxy-fuel welding; thermal cutting; and MIG, TIG, and ARC welding. Students will use a variety of processes in separating, combining, and forming metal materials to prepare them for occupations in the welding industry. In addition, the CNC machine and plasma torch will be explored. Dual credit status is forfeited if the student misses more than ten days in one semester, with the exception of school-sponsored activities. College course info: WEL-047 (Shielding Metal Arc Welding I)-3 sem. hours. Course fee: $56.85 ($41.85 dual credit fee, $15.00 class fee).

OKAW VOCATIONAL SCHOOL

COURSE LENGTH: One Year CREDIT: 2.0
COURSE LEVEL: 11, 12 SEMESTER: 1 & 2
REMARKS: A fee is required for these classes and payment will be included in student registration. Students can take OKAW their junior, senior year, or both.

Courses are offered at the OKAW Area Vocational Center in Vandalia and are available to Altamont students. Each course has its own prerequisites; however, junior status in high school and at least age sixteen are requirements for all programs. Refer to the OKAW course catalog or contact the high school counselor for further information. The following vocational areas are offered at OKAW:

Auto Body	Auto Mechanics
Building Trades	Computer Aided Drafting (CAD)
Computer Technology and Networking	Culinary Arts/Food Service
Foundations of Education	Health Occupations
Office Technology/Business Entrepreneur	Power Mechanics
Power Sports	Welding/Metal Fabrication