

INTRODUCTION

This course description is intended for students, parents, and others who seek information about the courses and educational opportunities offered at Arcadia High School. The information in this guide should help students and parents make thoughtful and purposeful decisions about which program best meets the student's individual educational needs and future goals.

Arcadia High School is a comprehensive high school that offers three basic preparatory programs. Each program is intended to develop the student skills and understandings that are needed for successful citizenship and future career endeavors. The school offers a variety of courses for students with different educational goals. However, students are urged to think of high school as a four-year program, not four one-year choices.

If projected enrollment for a course is low, that course may not be offered during the school year.

Comprehensive High School Program. The comprehensive course program is designed for those students not having a chosen vocation or career goal and wish to select courses from various academic or vocational departments. There should be a purposeful pattern to course selection so the student develops a solid basic educational background for entry level employment after graduation.

Vocational Preparatory Program. The vocational programs offered are designed for students who are preparing for careers in the business, technical and/or vocational areas.

College Preparatory Program. The courses of study in these programs are for students planning to attend a two-year or four-year college after graduation. Many occupations need post-secondary education; therefore, it will be necessary for students choosing this program to obtain the educational courses needed to meet the entry requirements of the college program. It will be important for the students to consult regularly with the guidance counselor to "keep up" on academic trends, updated career/occupational information, and college entry information (admissions deadlines, financial aid, etc.).

GRADUATION REQUIREMENTS

Class of:	English	Social Studies	Math	Science	Health/PE	Fine Arts	Electives	Total
2010	4	3^	3	3	1	1*	6	21
2011	4	3^	3	3	1	1*	6	21
2012	4	3^	3	3	1	1*	6	21
2013	4	3^	3	3	1	1*	6	21
2014	4	3^	4	3	1	1*	5	21
2015	4	3^	4	3	1	1*	5	21

^must include .5 unit of Government and .5 units of American History

*includes one unit (or two ½ units) of Business/Technology, Fine Arts, or Foreign Language

MILLSTREAM VOCATIONAL COOPERATIVE

The Vocational-Technical programs at the Millstream Vocational Cooperative are related classroom instruction and practical job experience. The students preparing to attend an offering at the Vocational-Technical Cooperative will need to plan their first two (2) years at Arcadia, then continue the last two (2) years at the Cooperative.

It will be important for the students and parents to consult with the guidance counselor to make the transition into these programs.

DROPPING AND ADDING CLASSES

In the spring, students select courses, which will determine their course of study for the following school year. These choices are considered to be binding upon the student following a verification of his/her choices in the selection of courses, and it must be understood that such courses should be chosen carefully and with genuine consideration of the students future schooling. Once such choices are made, every effort should be exercised by both the student and the parent to adhere to them.

It should be understood by parents and students that when registering for course work, a student places an obligation upon the school administration to accommodate the courses requested, to staff them with qualified and certified teachers, and to provide adequate textbooks and materials. It is impossible to maintain acceptable class size balances when many requests for schedule changes are honored. A practice of schedule adjustments undermines the effectiveness of the computer operations of the school and is a financially irresponsible use of certified and non-certified staff time. Students are encouraged to make realistic course selections based upon teacher recommendations and actual classroom performance.

In the rare circumstances where a student initiates withdrawal from a course and the schedule change committee approves the withdrawal, a mark of "F" will be mandated if the request falls after the first week in a semester course, the second week in a year long course, or the third week in an Advanced Placement course. The "F" is intended to indicate the lack of commitment, not necessarily the lack of achievement. The "F" will be calculated in the grade point average.

A student who is withdrawn from a course administratively for violation of course/behavioral contracts will receive a mandated grade of "F" in that particular course and no academic credit. The "F" will be calculated in the grade point average.

COURSE DESCRIPTIONS

AGRICULTURAL EDUCATION MISSION

The mission of Agricultural Education is to prepare and support individuals for careers, build awareness and develop leadership for the food, fiber and natural resources.

FFA Mission

FFA makes a positive difference in the lives of students by developing their potential for premier leadership, personal growth, and career success through agricultural education.

AG SCIENCE 1, 2

Grades 9-10

Credit: 1.25

AgScience is a comprehensive two-year course of study program designed for 9th and 10th grade students. Subject matter and learning activities include the basic principles and processes of Plant, Environmental, Mechanical and Animal Science, Research and Business Technology, Personal Development and Agricultural Safety. Students must be a member of the FFA and complete a Supervised Agricultural Experience. *Course fees and FFA dues.*

AG BUSINESS

An agribusiness program is a diversified cooperative education program designed to prepare students to successfully enter, compete, and advance in any agricultural occupation. The curriculum is based on industry-verified Environmental and Agricultural Career Cluster Integrated Technical and Academic Competencies (ITACs). The agribusiness program is a two-year program.

Agribusiness programs are conducted by an instructor who teaches the related classes and supervises the student cooperative education experience programs. All students must participate in FFA activities, an integral part of the instructional program.

The objectives of the agribusiness program include the development of the:

1. occupational competencies necessary for entry into and advancement in agricultural occupations
2. employability competencies which are essential for employment in agricultural occupations
3. personal, interpersonal, and leadership competencies
4. career decision-making competencies

Classes will be limited in size; student attendance is a major factor in possible enrollment. Other student participation policies are located in the Agricultural Education office. If a job is terminated for any reason, the student will return to school and be placed in a voluntary work experience under the direction of the instructor until a new job is found. SAE - Supervised Agricultural Experience can be 1.) Work experience, 2.) Entrepreneurial, 3.) Exploratory, 4.) Research, 5.) Home or Community Service *NOTE: THERE ARE CLASS FEES.*

AG BUSINESS 1

Grades 11-12

Credit: 1.25

Ag Business 1 is designed to prepare students for job placement in an agriculturally based career. Students must be a member of the FFA and complete a Supervised Agricultural Experience. Classroom learning activities will be focused on business and operations management and employability skills necessary to compete in today's job market. *Course fees and FFA dues.*

AG BUSINESS 2

Grade 12

Prerequisite: Agribusiness Level 1

Credit: 1

Ag Business 2 is the continuation of the Ag Business 1 studies with an added focus of Agricultural Marketing and financial management. Students must be a member of the FFA and complete a Supervised Agricultural Experience. *Course fees and FFA dues.*

AGBUSINESS 2 RELATED

Grade 12

Corequisite: Enrolled in Ag Business 2

Credit: 3

The Ag Business 2 Related class is a diversified cooperative education program designed to prepare students to successfully enter, compete, and advance in any agricultural occupation. Students must complete 450 hours of paid cooperative placement in an agriculturally related occupation approved by the instructor. These hours may be obtained during the summer, after school, during school if certain educational requirements have been met, or any combination of work schedules necessary to meet the time requirement. This is a cooperative placement program between the students, parents, instructor, and employers. **Students must provide their own transportation.**

AG MECHANICS

Grade 12

Credit: 1

Students will be designing, planning and constructing wood and/or metal projects in the lab. Students also may be involved with engine mechanics and repairs. The class is designed to allow students time to construct large scale projects for their own use or for resale. *Course fee and material fee for this course.*

ENVIRONMENTAL, HORTICULTURE, AND AGRICULTURAL SCIENCE

Grade 10-12

Credit: 1

A foundation program for basic knowledge and skill across all disciplines and industries associated with agriculture, horticulture, mechanics and natural resources. Communications, business principles, and leadership skill development are essential to the program. Students will learn about greenhouse, landscaping, turf management and natural resource management. *Course fee and material fee for this course.*

ART

Art provides an opportunity for involvement in the creative process. Students will have an opportunity to create original works of art and to learn about and appreciate the visual arts of the past and present. Through their efforts, they will be able to appreciate styles reflected in a work of art correlative to their age and levels of development. Information about art careers will be provided to help those students needing and desiring it. **NOTE: THERE ARE FEES FOR EACH ART CLASS.**

ART 1

Grades: 9-12

Credit: 1

Students will work with portraits, expression, sculpture, acrylic painting, watercolor, calligraphy, design layout, pen and ink drawing, pastels and charcoal, two point perspective, and ceramics. Art appreciation will include study of "Scholastic Art" Magazine, a trip to a museum or gallery, and a study of early art history through the renaissance period.

ART 2

Grades: 10-12

Prerequisite: Art 1

Credit: 1

Students will work with figure and portrait drawing in a variety of media, still life, commercial design problems, hand lettering, oil painting, sculpture, ceramics, and collage. A comprehensive unit in art history will study baroque art through the most current trends. This class is designed for students who are considering taking Art 2, 3, and 4 in the future.

ART 3

Grades: 11-12

Prerequisite: Art 2

Credit: 1

Work will begin to be tailored to each individual's area of skill and interest. Students will begin work on a portfolio if they plan further study of art after high school. Work will also include a stone sculpture, work on a potter's wheel, oil painting, and air brush work. A unit of architectural design history will be included.

ART 4

Grade: 12

Prerequisite: Art 3

Credit: 1

Art 4 is a more individualized class for students. Further development in areas of personal skill and interest will be stressed. Those who will continue their study of art in post - secondary education will develop a portfolio of work.

Computer/Business

The Computer/Business curriculum is designed to introduce students to many different types of computer/business applications that are used in today's business offices. It is designed to make all students typing efficient as well as introduce and reinforce their knowledge in many application areas. Students who are preparing for entry-level employment in any field will find these courses very beneficial. Students who are preparing on a career in the fields of computer or business should definitely take these classes.

KEYBOARDING

Nine week class required for seventh grade students

No Prerequisite

Class Description: The objective of this class is to learn how to type the letter, number and symbol keys by memorizing the keys without looking at the keyboard. Drills to improve typing speed and accuracy will be the focus. The number keypad will also be learned. *Note: There is a fee for computer paper used.*

WORD PROCESSING

Grades: 8-12

Prerequisite: Keyboarding or equivalent/teacher permission

Credit: .5

Class Description: This class will review the basic skills of keyboarding. Speed and control drills will be used to increase typing productivity. More advanced features of the word processing software will be introduced and learned as students learn to type and format various documents. *Note: There is a fee for computer paper used.*

OFFICE APPLICATIONS

Grades: 9-12

Prerequisite: Word Processing/teacher permission

Credit: 1

Class Description: This class will cover computer terminology and many different applications that are used in the business office. Here are the areas that this class may cover: Computer Terminology, Advanced word processing applications (Documents will be typed and formatted using learned features. Some possible examples are: more in-depth letters, tables, reports, text columns, newsletters, brochures, forms, flyers, mail merge, templates, macros, table of contents, linked objects, etc.), Spreadsheet applications, Database applications, Power Point Presentation applications, Web Paging applications, Internet Research, and operating a scanner, a digital camera and possibly other computer equipment. *Note: There is a fee for computer paper used.*

MICROSOFT PUBLISHER

Grades: 10-12

Prerequisite: Word Processing & Office Applications

Credit: .5

Class Description: Student will learn how to use the software program Microsoft Publisher. Students will create many different documents using this software. Examples may include: advertisements, brochures, business cards, business forms, calendars, catalogs, certificates, flyers, greeting cards, newsletters, programs, resumes, etc.

NEWSLETTER/WEB PAGING I, II, & III

Grades: 10-12

Prerequisite: Word Processing and Office Applications/teacher permission

Credit: 1

Class Description: This class will produce a weekly newsletter and create and maintain the school's web page. Students will earn credit each year that they take this class. This class will be limited to (3) students.

ENGLISH

The English curriculum is designed to help all our students to explore all facets of English through experiences in reading, writing, listening, and speaking. The primary goals are to build an appreciation for literature in the study of English, American, and world authors, to teach students to express themselves with accuracy and poise in speaking, to develop clear and concise written communication skills, and to listen and evaluate intelligently.

A fundamental study of grammar will be considered a necessity to build both written and spoken communication skills. Whether the student is job, career, military or college bound, each student needs to gain a high level of competency. *NOTE: THERE IS A CLASS FEE FOR EVERY ENGLISH CLASS.*

College Bound Students: College preparatory English is generally a part of the "Core Curriculum" that is required for college admission. Students planning post-secondary education may wish to consult with the guidance counselor and the college admissions office before making their English course decisions.

ENGLISH 9

Grade: 9

Credit: 1

This course stresses the fundamentals of grammar, usage, composition, sentence structure, paragraph development, and vocabulary. The study of literature is comprehensive and systematic. The anthology is organized by themes, including all genres: short story, non-fiction, poetry, drama, epic, and the novel. Focus is on the specific literary terms, techniques, and elements represented by the anthology's selections. Oral communications is included.

COLLEGE PREP ENGLISH 9

Grade: 9

Prerequisite: Grade of B or better in Language Arts 8 or teacher recommendation.

Credit: 1

A faster, more intense, broader coverage and pace of English 9.

ENGLISH 10

Grade: 10

Prerequisite: English 9 or College Prep English 9

Credit: 1

This is a second level academic course that continues to stress the practice of grammar, usage and composition. The writing process is stressed and used throughout the study of grammar and literature. The latter is divided by theme, including all genres: short stories, non-fiction, poetry, epic, drama and the novel.

COLLEGE PREP ENGLISH 10

Grade: 10

Prerequisite: Pass College Prep English 9 with B or better or teacher recommendation

Credit: 1

A faster, more intense, broader coverage and pace of English 10.

ENGLISH 11

Grade: 11

Prerequisite: English 10 or College Prep English 10

Credit: 1

This course stresses the further development of communication skills through reading, writing, and discussion of issues and problems pertinent to life. Grammar essentials, writing styles and techniques, and an advancement of vocabulary study will all be taught as necessities for effective communication. General English 11 is offered to those students who have no thought of pursuing education beyond the high school level.

COLLEGE PREP ENGLISH 11

Grade: 11

Prerequisite: Pass College Prep English 10 with B or better or teacher recommendation

Credit: 1

This is a college preparatory course that covers a variety of topics. A survey study of American literature, to include the American short story, is studied in depth, and poetry from the colonial period to the contemporary poets is studied. An intensive study of composition with emphasis on the writing of paragraphs evolving into full-length themes and eventually, the writing of a research paper is a course requirement. A unit on speech is presented to help each student develop poise in any speaking situation.

ENGLISH 12

Grade: 12

Prerequisite: English 11 or College Prep English 11

Credit: 1

This course stresses the further development of communication skills through reading, writing, and discussion of issues and problems pertinent to life. Grammar essentials, writing styles and techniques, and an advancement of vocabulary study will all be taught as necessities for effective communication. English 12 is offered to those students who have no thought of pursuing education beyond the high school level.

COLLEGE PREP ENGLISH 12

Grade: 12

Prerequisite: Pass College Prep English 11 with B or better or teacher recommendation

Credit: 1

This elective college preparatory course is a survey of English literature from Beowulf to the present time. Although an emphasis is placed on the great classics of English literature, the literature is presented in thematic units, incorporating literature not only from England but also from all around the world. To further prepare the college bound student, writing is emphasized. Various writing assignments are required, including the possibility of a major term paper.

APPLIED COMMUNICATIONS

Grades: 10-12

Credit: .5

This class is open to students in grades 10-12 who are interested in the field of communications. This course gives students practice in communication skills of reading, writing, listening, and speaking in their chosen vocations. Students learn to deliver presentations that effectively convey information and persuade or entertain audiences. Instruction centers on the Communication: Oral and Visual Standard in the English Language Arts Academic Content Standards.

CREATIVE WRITING

Grades: 10-12

Credit: .5

FIRST SEMESTER

This course stresses the writing process through creativity and imagination. The student enrolled in this class will create poetry, short stories, a play, and one essay. Individual work will be stressed and the submission of assignments is essential to student success.

NOVELS

Grades: 10-12

Credit: .5

SECOND SEMESTER

This course is open to grades 10-12 and is designed for those who take an avid pleasure in reading. This class can also give college-bound students a more enriched background in literature to help prepare them for post-high school

studies. A variety of activities will be included throughout the semester: projects, analysis, characterization games, and organized discussion. Novels may be themed or cover a variety of genres. *The teacher will choose one specific novel, while the other three will be decided upon among the class participants and teacher. The students will receive a list of possible choices. The decision of the novels will be made in the fall semester. The class will also participate in The Hancock County CommunityREAD project and author visitation if the book deem school appropriate.* The novels presented will change each year, so it is possible to take this course more than once. This course is limited to fifteen students.

Fees: Cost of four paperback novels

FAMILY AND CONSUMER SCIENCES

The Family and Consumer Sciences program fosters the development of a fully functioning individual who makes reasoned judgments and acts responsibly for self and others. Learning to interrelate and coordinate the worlds of work, family and home, and acts for the improvement of the family, work place, and society.

PERSONAL DEVELOPMENT

Grades: 9-12

Credit: .625

This semester course teaches responsibility for self and others, building self-esteem, relationships with family and peers, stress and conflict management, and career planning. Two action projects are required. *Note: students must also sign up for resource management*

RESOURCE MANAGEMENT

Grades: 9-12

Prerequisite: Personal Development

Credit: .625

This semester course covers managing resources to achieve goals; making consumer choices; housing, clothing, and feeding the family; and environmental responsibility. Two action projects are required. *NOTE: There is a fee for this class; sewing materials are an additional personal expense to the student.*

NUTRITION/WELLNESS

Grades: 10-12

Credit: .625

This semester course is designed to help students acquire knowledge and skills in the areas of nutrition, meal planning, and food preparation. Learn to create unique and fun meals and develop life long eating habits to keep you healthy for years to come. Two action projects will be required. *NOTE: A lab fee is required to cover the cost of food supplies.*

PARENTING

Grades: 10-12

Credit: .625

This semester course helps students answer questions such as, to parent or not to parent. Learn what it takes to raise a child. Study the reasons why to have or not to have a family. Discuss the role of parents, the responsibility of parenting, the pregnancy and childbirth process. Study the development of children of various ages. Two action projects will be required.

LIFE PLANNING

Grades: 10-12

Credit: .625

This semester course is the most practical class you can take to prepare for life after high school. This class is a real life simulation of what it will be like to be on your own. Get a job, open a bank account, buy a car, rent an apartment, get insurance, buy groceries, write checks and manage money. Two action projects will be required.

FAMILY RELATIONS

Grades: 10-12

Credit: .625

Explore the meaning and functions of the family, evaluate factors to consider when choosing a partner for marriage, evaluate your readiness to form your own family, explore different lifestyle choices, learn to build and maintain healthy family relations, manage stress and conflict, study family roles and work responsibilities. Two action projects will be required.

FOREIGN LANGUAGE

Providing foreign language offerings to students is three - fold: to make students more aware of other cultures in comparison to their own, to strengthen the understanding of one's own language through the intensive study of another, and to stress inter-communication through the learning of another language. *NOTE: ALL SPANISH CLASSES HAVE A CLASS FEE.*

College Bound Students: A foreign language requirement is generally a part of the "Core Curriculum" that is recommended for college admission. Students planning post-secondary education may wish to consult with the guidance counselor and the college admissions office before making any decision concerning the courses necessary for meeting basic admission requirements.

SPANISH 1 Grades 9-12
A grade of C or higher in English is required to take Spanish. Credit: 1
Spanish 1 focuses on the acquisition of a broad basis of vocabulary and basic grammar skills through oral and written work. A basic overview of culture is introduced to enhance the meaning, depth, and application of the language using various mediums.

SPANISH 2 Grades: 9-12
Prerequisite: C- or higher in Spanish 1 Credit: 1
Spanish 2 stresses the rejuvenation of old vocabulary and grammar skills along with the strengthening and building of more vocabulary and more advanced grammar through oral and written work. Further study of culture through various mediums will be pursued through current literature and the Spanish textbook.

SPANISH 3 Grades: 9-12
Prerequisite: C- or higher in Spanish 2 Credit: 1
In Spanish 3, much of the class is conducted in Spanish with a focus on advanced grammar skills and vocabulary. There is a focus on different aspects of the culture specifically in literature and in art through the reading of advanced literary works and excerpts and through advanced composition.

SPANISH 4 Grades: 10-12
Prerequisite: C- or higher in Spanish 3 Credit: 1
The entire class will be conducted in Spanish focusing further on advanced vocabulary and grammar. Culture will continue to be taught through literary works from outside sources. A large portion of the class will focus on advanced conversation and composition.

HEALTH AND PHYSICAL EDUCATION

HEALTH Grade: 9
Credit: .5
A required academic course includes information about physical, mental, and social health. Specific units of study are: personality, appearance, behavior, and emotions, drug dependency, control of the body, skeletal and muscular systems, supply systems, protection against diseases, safe guarding your body, sex education, personal health, fitness and nutrition.

PHYSICAL EDUCATION Grades: 9-10
Credit: .25
Students are required to complete the requirements of two semesters of Physical Education at the high school level. If there are personal physical reasons or conditions for any student to be excused from this required course, a statement from a physician is needed. The semester courses will cover physical fitness, weight training, individual and team activities such as badminton, whiffle-ball, flag football, track and field, floor hockey and pickle-ball (form of tennis), soccer, mat ball and steal the pin.

PHYSICAL EDUCATION II

Grades: 11-12

Credit: .25

First Semester

This semester course will cover concepts related to the benefits of maintaining a healthy lifestyle. Students will receive instruction in developing a healthy cardiovascular system, proper diet and nutrition, and the benefits of life long aerobic and anaerobic activity. Students will participate in physical fitness activities, weight training, basic first aid, lifetime sports and recreational activities.

INDUSTRIAL TECHNOLOGY

The Industrial Technology Program is part of the general high school curriculum. It is designed to be exploratory for the students and is therefore, pre-vocational. The general goals of industrial technology are to acquaint the students with processes of construction, to develop manipulative skills with respect to using tools and machines, to develop a cooperative attitude among students to work together, and to teach students some creative leisure time activities. For the students who are interested in a technical or engineering career, there is the opportunity to design, plan, and complete a manufactured product. All projects must have prior approval of the instructor. All materials that go into the construction of a project must be paid by the student. The projects then belong to the student for his/her own use. A shop fee is charged to cover bulk items used by all students. These products generally include glue, sandpaper, screws, finishing materials, etc. *There is a fee and additional material costs.*

INDUSTRIAL TECH 1

Grades: 9-12

Credit: 1

This is a beginning level course. It is designed to familiarize the student with the fundamentals of woodworking, i.e. the basic and safe use of power and hand tools, wood selection, plan reading, construction and finishing. The student is expected to select, construct and finish one or more simple projects in this course.

INDUSTRIAL TECH 2

Grades: 10-12

Prerequisite: Industrial Tech 1

Credit: 1

This second level course is designed to develop those skills learned in Industrial Tech 1. The project selected at this level should include simple case construction with emphasis on accuracy.

INDUSTRIAL TECH 3

Grades: 11-12

Prerequisite: Industrial Tech 2

Credit: 1

Industrial Tech 3 is designed to challenge the student who intends to become a serious vocational or avocational woodworker. This level is designed to develop problem-solving techniques such as complicated joint construction. The student is encouraged to solve problems by research and critical thinking. Advanced, challenging projects are expected at this level.

INDUSTRIAL TECH 4

Grade: 12

Prerequisite: Industrial Tech 3

Credit: 1

Emphasis will be on the subtleties of woodworking such as grain and figure configurations in design, period styles and design functions. Advanced level projects are required at this level.

CAD (COMPUTER AIDED DRAFTING)

Grades: 10-12

Prerequisite: C or better in Geometry

Credit: 1

CAD has been integrated into nearly all types of industries at some level. Students with an interest in technical, scientific, or engineering fields should be exposed to CAD. This course will introduce the components of a CAD system, fundamentals of engineering graphics, creating 2D and 3D drawings, detailing, dimensioning, printing, and plotting drawings.

CAD II (COMPUTER AIDED DRAFTING)

Grades: 10-12

Prerequisite: CAD I

Credit: 1

Students in CAD II will continue work with orthographic projections, dimensioning practices and three view drawings on the computer. Sectional drawings, pictorial drawings and auxiliary views will be explored in the class. In addition, models will be constructed from developments using geometric layout work.

MATHEMATICS

The mathematics curriculum offers the student a common sense knowledge of mathematical functions that is necessary for an informed citizen to function effectively. Advanced students will garner the specialized knowledge needed to pursue further study in college or employment.

TECHNICAL ALGEBRA

Grades: 9-12

Credit: 1

Technical Algebra is a non-college prep course that will use the basic skills of algebra to explore technical application in percent, ratio, proportion, area, surface area, volume, statistics, and direct, inverse and combined variations. Right triangle trigonometry will be explored and applied to real-life situations.

ALGEBRA I

Grades: 9-12

Prerequisite: C or higher in Connected Math 8 or teacher recommendation

Credit: 1

This is a college or technical preparatory course which includes: real number systems, linear equations and inequalities in one variable, linear equations and inequalities in two variables, polynomials, functions and quadratic equations in one variable.

TECHNICAL ALGEBRA II

Grades: 10-12

Prerequisite: Algebra I or Technical Algebra

Credit: 1

Technical Algebra II is a non-college prep course designed to allow the student to transition into the work force with a background in algebra and geometry. Mathematical concepts that can be applied to business situations will be emphasized.

TECHNICAL ALGEBRA III

Grades: 11-12

Prerequisite: Students who have earned two mathematics credits

Credit: 1

Technical Algebra III is a non-college prep course designed to extend the students' background in Algebra, Geometry, and statistics & probability. The course emphasizes problem solving and practical applications.

GEOMETRY

Grades: 9-12

Prerequisite: Algebra 1

Credit: 1

This is a course that deals with the measurement, properties, and relationships of points, lines, angles, surfaces, and solids. The class will apply the advanced concepts of deductive reasoning, polygons, constructions, circles, spheres, ratios and proportion, areas, volumes and basic trigonometric ratios.

ALGEBRA 2

Grades: 10-12

Prerequisite: Geometry

Credit: 1

In this course, the student will be introduced to the advanced concepts of algebra to include: equations and inequalities in one, two, three, or more variables of the first, second, third, or higher degree. Functions, logarithms, sequences, matrices, combinations, permutations, and probability will be instructed.

ADVANCED MATH

Grades: 11-12

Prerequisite: Algebra 2

Credit: 1

This fourth year of mathematics will be divided into two parts:

1. Trigonometry: the study of the properties of triangles, the functions and applications of trigonometric formulas.
2. Analytic Geometry: the methods of algebra and trigonometry as it applies to rectangular, polar coordinates, conics, linear equations, first degree equations relations and functions.

CALCULUS

Grade: 12

Prerequisite: Advanced Math

Credit: 1

The course covers an expansion on functions introduced in analytic geometry including composite and inverse functions, sequences and limits, algebraic functions, vectors in both two and three dimensions, and areas and volumes of integral.

MUSIC

The general purpose of the Music Program at Arcadia High School is to help the student develop into a well-rounded individual, knowledgeable in artistic areas outside the normal academic realm. Emphasis is placed upon individual and group responsibility, proper musical techniques, and the development of musical talents.

CHORUS

Grades: 9-12

Credit: 1

Various types of vocal music (from classical to popular, both secular and sacred) will be performed in the classroom setting as well as at concerts. Special ensembles and soloists will be selected from the chorus for performances, both at concerts and at community functions, throughout the school year. Co-curricular opportunities include solo and ensemble, large group contest and honor choirs. There are required performances that are outside regular school hours.

VOCAL ENHANCEMENT

Grades: 9-12

Credit: 1

Students will study their voice more in-depth and on a scientific level. Various types of vocal solo music will be studied, such as jazz, arias, recitatives, musical theater, opera, etc. Various languages often seen in choral music, (German, Italian, French, and Latin) will also be studied.

BAND (Marching and Concert)

Grades: 9-12

Credit: 1

Performance of appropriate classical, contemporary, and popular band music is included in the band performance/rehearsal schedule. The band functions in many ways toward the development of musical aptitude and perfection of musical playing (private/group lessons, rehearsals, solo and ensemble, etc.). The band marches at football games during the fall season and performs in concert from mid-November through the end of the school year. Co-curricular opportunities include pep band, solo-ensemble contest performances, honor bands, and the musical orchestra. There are required performances and practices that are outside regular school hours. NOTE: Students are able to join the band program at any grade level with permission of the instructor.

MUSIC THEORY

Grade: 10-12

Credit: .5

This class deals with learning the theories of music and some basic music composition. It is an excellent opportunity for musicians to improve their knowledge of the subject. Some basic music knowledge is beneficial, but not required for this class. This class satisfies one-half credit toward the fine arts requirement.

MUSIC APPRECIATION

Grade: 10-12

Credit: .5

This class deals with the history of music, how music came about, and how it has evolved over time. This class is open to all students. No previous musical knowledge is required. This class satisfies one-half credit toward the fine arts requirement.

SCIENCE

It is the purpose of the Science Program to help our students understand, appreciate, and make use of their living and physical environment as ecologically versed citizens. Our purpose is to develop a foundation in historical and current scientific knowledge while stimulating further inquiry. Clinical observation, accurate recording, effective evaluation and interpretation of data, handling of scientific equipment, and use of scientific measurements are skill areas that will be addressed. Diverse career opportunities in the sciences will also be explored. *NOTE: ALL SCIENCE CLASSES HAVE CLASS/LAB FEES.*

PHYSICAL SCIENCE with EARTH SCIENCE

Grade: 9

Credit: 1

Physical Science is a required course with emphasis on scientific inquiry, laboratory investigation, critical thinking skills and scientific knowledge. The scientific method will be used to complete and analyze the data from all experiments performed. Laboratory work is required. Specific topics include: motion and acceleration, forces and Newton's Law, work and machines, energy and alternative forms, waves and the electromagnetic spectrum, electricity and magnetism, science occupations, periodic table and chemical properties, chemical equations and bonding, and consumer science. The course work includes use of textbook, class notes, experiments, enriching activities and simulations of scientific process. Safety and correct scientific processes will be emphasized. Academic progress is based on class work, homework, labs and lab reports, projects, quizzes and tests.

BIOLOGY

Prerequisite: Science 9

Grades: 10-12

Credit: 1

Biology is a laboratory course designed to prepare students for advanced classes in science. The study of life will emphasize scientific inquiry, laboratory investigations, critical thinking skills and scientific knowledge. Laboratory work incorporating the scientific method will be used to aid in the understanding of key concepts. Preparation for the OGT will focus on all life science indicators plus a review of the earth science and physical science indicators. Specific topics include ecology, biodiversity, population studies, cells and cellular processes, photosynthesis and respiration, genetics, DNA, and genetic engineering, change of organisms over time, fossil history, classification of organisms, bacteria, fungi, protists, plants and animals. Academic progress is based on class work, homework, experiments, projects, quizzes and tests.

INTEGRATED SCIENCE I

Grade: 11-12

Credit: 1

Core science course that contributes to the OGT competencies. Integrated high school core course to develop standards based knowledge and skills: including atoms, chemical reactions, physical properties, mixtures and solutions, laws of motion, forces, energy, waves, historical perspectives and emerging issues, processes within and on the Earth, Earth's history through geologic evidence, resources, relationship between technology and science, diversity of scientific theories, scientific literacy, scientific conclusions, and modeling investigations.

ANATOMY AND PHYSIOLOGY

Grades: 10-12

Prerequisite: Biology or Zoology

Credit: 1

Anatomy and Physiology is a laboratory course that builds and extends many concepts learned in Biology and Zoology. It is an in-depth study of human anatomy and physiology. The structure and functions of the body systems are studied in detail with emphasis on disease state and disease prevention. The major systems covered are as follows: skeletal, muscular, nervous, digestive, respiratory, circulatory, excretory, endocrine, and reproductive. Current scientific events and discoveries are included in the course. Teacher may require a laboratory practical exam.

Lab work will include cat dissection, blood typing, blood pressure determination, and microscopic study of issues. Information is presented with classroom lecture, videotapes, laboratory experiments, dissections, in-class and homework assignments, and field trips. Evaluation is based on quizzes, tests, outside projects, class work, and formal examinations.

APPLIED BIOLOGY

Grades: 11-12

Prerequisite: Biology or Zoology

Credit: 1

Applied Biology focuses on the inter-relationships of organisms to their environment. Ecology, successions, pollution, biomes, sustainability, conservation and preservation are the core topics of the course. Laboratory work is required. Students will work in the greenhouse and help take care of the arboretum. Students may have to spend time beyond the school day to finish some of the class projects. Students will demonstrate their proficiency in growing and taking care of plants. Academic progress is based on class work, homework, experiments, projects, quizzes and tests.

CHEMISTRY

Grades: 10-12

Prerequisite: Algebra 1 with a C or higher and Science 9

Credit: 1

Chemistry is designed to provide an introduction to the chemical facts and principles that will help a person better understand and participate in making decisions on: environmental, health, consumer, social, and occupational issues. The student who does well in this course will also be well prepared for college or university study in chemistry.

Topics include but are not limited to: chemical symbols, and formulas; composition, structure and bonding; reactions and their representations; the interaction of energy and matter; states of matter; solutions; and the interpretation of these in the context of kinetic-molecular theory. Frequently, chemicals chosen in the illustration of the course topics are those of major environmental, industrial, health, and energy concerns.

Laboratory work is required. The emphasis in this component of the course is the safe and effective manipulation of chemicals and chemical equipment; accurate observations and interpretation, often in quantitative terms; and effective communication of results in written reports. Grading is based on class participation including completion of homework, laboratory, and quizzes and comprehensive exams.

ZOOLOGY

Grades: 10-12

Prerequisite: Science 9

Credit: 1

Zoology is the study of animals and their environment. The emphasis of the course is on animals and their relationship to areas of animal ecology, aquatic ecology, behavior, anatomy/physiology, biodiversity, wildlife conservation, and general zoology—including cell biology, genetics, developmental biology, and evolution. Students will learn various ways to classify animals in the world as well as develop ways of gathering and collecting various species.

INTEGRATED SCIENCE II: Biological Sciences

Grade: 12

Credit: 1

A core science course that contributes to OGT competencies. Integrated core course to develop standards based knowledge skills: including cells, genetics and DNA, diversity of life, ecology, biological evolution, historical perspectives; processes with in and on the Earth, Earth's history through geologic evidence, resources scientific advances, and emerging technologies. (Microbiology, botany, bio and organic chemistry, paleontology)

PHYSICS

Grade: 12

Prerequisite/Co requisite: Geometry

Credit: 1

Physics investigates the relationship between mass and energy in the physical world. Students will be very active in the laboratory. The purpose of this course is to prepare students for post secondary work in sciences and related fields as well as prepare students in physics related issues of everyday life. Core topics include motion, acceleration, force, vectors and components, projectile motion, heat, waves, electromagnetic spectrum, light, electricity, and nuclear physics. There will be several projects during the school year. Academic progress is based on class work, homework, experiments, projects, quizzes and tests.

SOCIAL STUDIES

The Social Studies curriculum offers classes and instruction that are designed to help students understand the physical and cultural geography of the world, the chronological development of the United States of America as a nation, and the principles and practices of our democratic government. The course work emphasizes the development of the groups and institutions within society, the economic responsibilities and decisions that all citizens must consider, and theories of human behavior that help us understand ourselves as well as others.

INTEGRATED HISTORY

Grade: 9

Credit: .5

Students in the ninth grade study more recent historical events. The historical development of the United States and its role in world affairs are central to the course. The course will look at the expansion of government, increases in democracy, the influence of immigrants, our increased role in the world, other influences from around the world, the Civil War, and events leading to WW I. The students also develop a deeper understanding of their role as citizens and continue to expand their command of social studies skills and methods.

HUMANITIES I

Grade: 9

Credit: .5

The emphasis of this course is based on the study of cultural achievement and the geographic themes which, influence cultural development. Culture regions are studied around the world to create a manageable approach to allow students to analyze and appreciate diversity in literature, arts, religion, history, philosophy, and languages. Cultural diffusion in world cultures is also addressed.

AMERICAN HISTORY

Grade: 10

Credit: .5

The tenth grade students study the United States with focus on the twentieth century. The course includes the study of World War II, empire building, expansion of the U.S., the Cold War, growing world interdependence and the role of alliances. As students study historic events, they consider geographic setting, the cultural perspectives, the economic implications and the role of government.

WORLD HISTORY

Grades 10

Credit: .5

World History is a record of the adventures of human kind, of the famous and the ordinary and covers thousands of years. By studying World History and by gazing across time, one can understand the past and recognize its contribution to the present and the future. World History tells of significant people and events. It also encompasses broad historical concepts and geographical themes that happen repeatedly providing meaning for events in the past and showing how they affect contemporary life.

HIGH SCHOOL OHIO HISTORY (REGIONAL)

Grades 9-12

Credit: .5

This course reflects an in depth study of Ohio from Native Americans through the present day. Students will learn about various immigrant groups and their shaping of our state. Discussions will also involve centering on issues relating to economics, politics, our state's impact on the nation, and the future challenges for Ohio in the Twenty-First Century. The course will also look at significant Ohioans who have impacted the state in various cultural, military, medical, and political capacities.

HUMANITIES II

Grade 11-12

Credit: .5

The emphasis of this course is based on the study of cultural achievement with emphasis on individual human interactions. The course addresses diversity in literature, arts, religion, history, philosophy, and languages. Human interactions are central to the understanding of how events are shaped by human interactions and relationships.

HUMANITIES III

Grades: 11-12

Credit: .5

The emphasis of this course is on the study of cultural achievement and diversity between various groups in literature, arts, religion, history, philosophy, and languages. Cultural diffusion in world cultures is also addressed. Cultural achievements and societal values are addressed in an attempt to understand how societies affect human relationships.

GOVERNMENT

Grade: 12

Credit: .5

This course provides knowledge of the political environment of the United States from a global perspective. Also studied is the heritage of the United States government and the institutions and political activities of the government at the national, state, and local levels. The course encourages young adults to become effective participating citizens in a democratic society. Students also study the interdependence of nations and issues that are a part of international politics.

AP GOVERNMENT & POLITICS

Grade: 12

Credit: 1

The purpose of this course is to provide students with the analytic skills, principles, and factual knowledge necessary to deal critically with problems and materials in the American Political system. This course is designed to develop the student skills necessary to arrive at conclusions on the basis of informed judgment and to present ideas clearly and persuasively in an essay format. The course is conducted as an introductory college course and provides the student with the opportunity to receive college course credit upon successful completion of the Advanced Placement Test. Follows the current Advanced Placement syllabus.

HUMANITIES IV

Grade: 12

Credit .5

This course is designed to provide a flexible approach to study cultural achievement by looking at the events of the present and drawing on a variety of disciplines in the social studies. Students will apply concepts including literature, arts, religion, history, philosophy, and languages to better understand today's social environment. The ability to conduct research, determine cause and effect relationships, and predict future events will also be important in the course. How citizens can influence issues and the global implications of current issues will be addressed.