



*Where Eagles Learn to
Soar*

Liberty-Benton High School

2026-2027 Course Descriptions

***The choices you make
today dictate the life you
lead tomorrow.***

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AGRICULTURAL & ENVIRONMENTAL SYSTEMS

Each student in the Agricultural Education program is required to have a plant, animal, research, or job placement, Supervised Agriculture Experience (SAE) project and community service project. Each student is also a member of the National FFA Organization.

Agriculture, Food and Natural Resources (381)

CCP credit through Rhodes State College (735-AGR 1000). See page 18.

Prerequisite: None

Credit: 1.25

Grades: 9

Length: 1-year

Cost: Class Fee + \$20 FFA Dues

This **first** course in the career field is an introduction to Agricultural and Environmental Systems. Students will be introduced to the scope of the Agricultural and Environmental Systems career field. They will examine principles of food science, natural resource management, animal science & management, plant & horticultural science, power technology and bioscience. Students will examine the FFA organization and Supervised Agricultural Experience programs. Throughout the course, students will develop communication, leadership and business skills essential to the agriculture industry.

Animal & Plant Science (382)

Prerequisite: Ag I

Credit: 1.25

Grades: 10

Length: 1-year

Cost: Class Fee + \$20 FFA Dues

Students will apply knowledge of animal and plant science to the agriculture industry. They will be introduced to the value of production animals relative to the agricultural marketplace. Students will engage in animal classification and selection, body systems, along with animal welfare and behavior in relation to the production of animals. Students will learn principles of plant anatomy and physiology, and the role of nutrition, deficiencies and growing environment on plant production. Throughout the course, business principles and professional skills will be examined.

Agricultural Business (383)

Prerequisite: Ag I & II

Credit: 1.25

Grades: 11, 12

Length: 1-year

Cost: Class Fee + \$20 FFA Dues

This class is for those students interested in owning, operating, or understanding the workings of different types of businesses. This course will focus on business as it relates to the agricultural industry, but what is learned in this class can very easily be applied to different types of industries. Some of the knowledge students can expect to take away from this class are: how to structure a business, how to/actually develop a business plan, engage in sales and marketing, examine bio-security, manage purchasing and inventory for a business, identify different career development and human resources techniques, and practice business leadership. Throughout the course, students will apply concepts of ethics and professionalism while implications of business regulations will be identified.

Mechanical Principles (384)

Prerequisite: Ag I & II

Credit: 1.25

Grades: 11, 12

Length: 1-year

Cost: Class Fee + \$20 FFA Dues

Students will engage in the mechanical principles utilized in animal and plant production systems. They will learn electrical theory, design, wiring, hydraulic and pneumatic theory, along with metallurgy in relation to hot and cold metals. Students will apply knowledge of sheet metal fabrication applicable to the agricultural industry along with identifying, diagnosing, and maintaining small air-cooled engines. Throughout the course, students will learn critical components of site and personal safety as well as communication and leadership skills.

Livestock Selection, Nutrition, and Management (387)

Prerequisite: Ag I & II

Credit: 1.25

Grades: 11, 12

Length: 1-year

Cost: Class Fee + \$20 FFA Dues

Students will identify and apply principles and routine husbandry practices to production animal populations. Topics will include principles of nutrition, feed utilization, animal welfare, selection and management of facilities, and herd populations. Students will apply knowledge of production animal care to enhance animal growth, selection of breeding stock, and management practices. Throughout the course, students will develop management plans reflecting practices for care and legal compliance.

Food Science and Technology (385)

Prerequisite: Ag I & II

Credit: 1.25

Grades: 11, 12

Length: 1-year

Cost: Class Fee + \$20 FFA Dues

Students will examine the research, marketing, processing and packaging techniques applied to the development of food products. Learners will examine nutrient content and their chemical makeup, while applying principles of chemistry to the development of food products. They will examine and implement food safety, sanitation, and quality assurance protocols. Government regulations and food legislation will be examined and the implications to food science and technology will be identified.

Agricultural Capstone (386)

Prerequisite: Three or more Agricultural & Environmental System courses

Credit: 1.25

Grades: 12

Length: 1-year

Cost: Class Fee + \$20 FFA Dues

Students apply Agricultural and Environmental Systems program knowledge and skills in a more comprehensive and authentic way. Capstones are project/problem-based learning opportunities that occur both in and away from school. Under the supervision of the school and through partnerships, students combine classroom learning with work experience to benefit themselves and others. These can take the form of mentorship employment, cooperative education, apprenticeships and internships.

Mixed Chorus (311)

Prerequisite: None (Students moving into the district must have previous choral experience at their former school to join chorus mid-year.)
Credit: 1 Grades: 9-12 Length: 1-year
Cost: Solo and ensemble fees for those participating

Mixed Chorus will offer the students participation in a variety of musical experiences. These may include singing classical, sacred, and contemporary literature. Maintain the line of one part within the framework of two-four part choral music, Develop good vocal technique with proper breath support, blend, balance, diction, and tone production, Identify musical terminology and concepts such as dynamics, tempo, phrasing, intonation, etc., Sing a variety of music of many styles, including classical, sacred, secular, popular, and contemporary, Encouraged to be involved in the Winter Musical as well as Solo and Ensemble Adjudicated Events, Perform for OMEA District and possibly State Adjudicated Events in the spring.

Take responsibility for being present and contributing to ALL classes, rehearsals, and performances.

Advanced Chorus (312)

Prerequisite: At least one year in Mixed Chorus or a comparable group from another district AND by audition. If a student has not been in Mixed Chorus for a year, they may still audition to be in this group if they are in grades 10-12.

Credit: 1 Grades: 10-12 Length: 1-year
Cost: Solo and ensemble fees for those participating

Advanced Chorus will offer the students participation in a variety of musical experiences. These may include singing classical, sacred, and contemporary literature. This course is an advanced continuation of Mixed Chorus for participation of junior and senior students. Students in this course will be held to higher standards of excellence and will be expected to take responsibility for the quality of their performances. Maintain the line of one part within the framework of four-twelve part choral music, Continue to develop vocal technique with proper breath support, blend, balance, diction, & tone production, Identify musical terminology and concepts such as dynamics, tempo, phrasing, intonation, etc., Sing a variety of music of many styles, including classical, sacred, secular, popular, and contemporary, Strongly encouraged to be involved in the Winter Musical as well as Solo and Ensemble Adjudicated Events, Perform for OMEA District and possibly State Adjudicated Events in the spring.

Take responsibility for being present and contributing to ALL classes, rehearsals, and performances.

High School Band (310)

Prerequisite: Middle School Concert Band or previous experience playing a band instrument preferred
Credit: 1 Grades: 9-12 Length: 1-year
Cost: band camp, uniform dry cleaning, shoes, shirt, gloves, instrumental repair

Liberty-Benton High School Bands offer all students an opportunity to creatively express him/her through the combined efforts of instrumental ensemble playing. This is a performance-oriented group, which serves a multi-faceted purpose: Publicly, it provides music for football games, basketball games, as well as being showcased in public/school concerts throughout the year. Socially, it serves as a group where students of like interests can join to share their talents, as an opportunity to foster leadership, musicianship, friendship, and team building. Most importantly, educationally, the band serves as a class to learn about music, develop excellent musical skills, as well as experience accomplishments that derive from competitive and non-competitive teamwork.

The following subgroups comprise the Liberty-Benton High School Bands:

MARCHING BAND-Fall will: Performs at all football games, as well as several marching band competitions, It is required that ALL students involved in the Band Program are to participate in the MARCHING BAND in some capacity, It should be understood that there are additional after school rehearsals for the MARCHING BAND. All additional rehearsals are discussed with the coaches of athletic teams to avoid any conflicts with students who are involved in both.

CONCERT BAND-Winter and spring will: follow at the end of marching season, performing at several concerts as well as Large Group Adjudicated Events (as hosted by The Ohio Music Education Association), It is required that ALL students involved in the Band Program are to participate in CONCERT BAND.

GOALS OF THE CURRICULUM: To develop competent musicians, develop and foster an appreciation for music, To expose students to a wide variety of music and playing opportunities, To understand a wide musical vocabulary, Implementation of the Nine Standards set for the music by the Music Educators' National Conference.

It is to be understood that ALL rehearsals and performances are REQUIRED.

Music Theory & Appreciation (314)

Prerequisite(s): 1-year HS Band or Choir Co-Requisite: HS Band or Choir
Credit: 1 Grades: 11, 12 Length: 1Year Cost: Class Fee

This is an introduction to Music Theory through the learning of scale patterns, chords, melody, harmony, ear training, composition, and part writing. This course is also designed to introduce representative musical masterworks to high school students. Music Appreciation is a study of the materials of music, including basic elements, mediums, styles, and form is presented as an aid to understanding and enjoying music. The listening to and analysis of recordings is included. The topics studied will include basic music terms, musical time periods, the history of jazz, musicals, origins of today's pop music and discussing the aesthetic values of music.

BUSINESS, CAREER & TECHNOLOGY

Computer App. in the Workplace (500)

CCP credit through Rhodes State College (715–CPT 1250). See page 18.

Prerequisite(s): None

Credit: .5

Grades: 9, 10, 11, 12

Length: 1 semester

Cost: Lab Fee

Students will learn an overview of Microsoft Office 365 and G Suite applications. Using Windows 10, students will use Office and G Suite applications to work with word processing, presentation programs, spreadsheet programs, etc. Students will learn how to integrate various Office and G Suite applications; practice improving their typing skills, explore the etiquette and differences between various digital communications as well as online etiquette and safety; learn the computer organization skills that will save time and improve their workflow; and navigate, organize, and upload content using a PC to the LMS Schoology.

Beyond the Bell: Life & Career Readiness (505)

Prerequisite(s): None

Credit: .5

Grades: 11

Length: 1 semester Cost: None

Students will gain valuable, real life experiences and develop skills that will help them prepare to successfully meet the demands of the world of work and life. Through various explorations, projects, guest speakers, and case studies, students will explore their strengths, interests, and aptitudes in relationship to different careers that may be a good fit for their future. Students will also be engaged in a semester-long, real-world simulation that will measure classroom expectations and turn them into a classroom economy experience. This experience will build real-world skills such as budgeting / money principals, time management, organization strategies, and soft skills that are in high-demand by the workforce that will create strong employability potential. Students will also gain valuable training in how to market themselves as they prepare to enter the workforce.

Introduction to Business (510)

Prerequisite(s): None

Credit: 1

Grades: 10, 11, 12

Length: 1 Year

Cost: Lab Fee

This is a full-year course that introduces students to the world of business and sets a solid foundation for students. The learning aspects of the course covers organization, time management, improving reading for comprehension, note-taking skills, and more. The business units help students acquire sound values and acceptable attitudes regarding their personal lives and on-the-job success. Students will be engaged in computer-related activities, and current events while learning the following topics: today's economy, business ownership, career exploration, getting and keeping a job, how to be a wise consumer, managing money, understanding banking and credit, and types of insurance. The knowledge obtained in this class is practiced and reinforced throughout the course and is transferable to everyday life.

Introduction to Marketing (520)

Prerequisite(s): None

Credit: .5

Grades: 10, 11, 12

Length: 1 Semester

Cost: Lab Fee

This semester course is to open the student's eyes to the world of marketing that is all around and to become educated decision-makers. Students will study consumer behavior in order to understand and apply marketing, management, and entrepreneurial principles to make rational economic decisions and to exhibit social responsibility in a global economy. Marketing is a process that involves a variety of activities focused on customers and the profitable execution of those activities, including market segmentation, target marketing, market research, promotion, pricing, product/service management, distribution, and selling. Instructional activities include case studies, current event analysis, research and discussion, demonstrations, guided notes and guest speakers.

Sports and Entertainment Marketing (521)

Prerequisite(s): Intro to Marketing

Credit: .5

Grades: 10, 11, 12

Length: 1 Semester

Cost: Lab Fee

This course will serve as an extension of Intro to Marketing, focusing on marketing and management functions/tasks that can be applied to all levels of sports and entertainment industries. The impact that sports and entertainment marketing have on the economy, tourism, local business, national brands, and consumer behavior will be examined. There will be a focus on marketing management including, but not limited to: brand development, promotions, ticket sales, fan engagement, merchandising, events planning and community involvement. Throughout the course, students will gain an understanding of how sports and entertainment events and professionals are used to develop and sell merchandise and other services.

Excel: Applied Data Analysis (522)

Prerequisite(s): None

Credit: .5

Grades: 9, 10, 11, 12

Length: 1 semester

Cost: None

In today's data-driven world, Microsoft Excel is more than just a software program. It is a universal language of business, science, and finance. This one-semester course transforms students from basic data-entry users into proficient data analysts. Students will move beyond simple lists to master complex formulas, logical operators (IF statements), and advanced data organization techniques like sorting, filtering, and PivotTables. Through hands-on projects using real-world datasets, ranging from sports statistics to global demographics, participants will learn to visualize trends through dynamic charts and protect their data with professional formatting. Whether you are planning to manage a business, pursue a STEM career, or simply master your personal finances, this course provides the essential toolkit for success in the 21st-century workplace.

Computer Assisted Drafting I (570)

CCP credit through Rhodes State College (717 – MET 1000). See page 18.

Prerequisite(s): None

Credit: .5

Grades: 11, 12

Length: 1 semester

Cost: Lab Fee

This course will briefly explore basic board drawing techniques followed with an introduction to the fundamentals of drawing with AutoCAD software. Students will learn to set up drawings, use on screen tools to draw, reshape and manipulate objects in both two dimensional and three-dimensional worlds. Students will learn how to modify objects using both mouse and keyboard. A broad coverage of blueprints, symbols, views and dimensioning standards are just a few areas that will be explored through CAD applications. Students will reproduce drawings using peripherals such as plotters and printers. If you are interested in any type of design or engineering field, or graphics manipulation, this course is a must for your college prep electives.

Work-Based Learning (580)

Prerequisite: Junior or Senior Status and Principal/ Counselor Permission

Credit: 1 for class. Max of 2 for work

Grades: 12 (11 on case by case basis)

Length: 1 Year

Cost: None

Work-based learning experiences are conducted at a work site during or after school. Work-based learning is designed to provide authentic learning experiences for students that link academic, technical and professional skills. Students will have a one period class including activities for finding and maintaining employment, money management, understanding taxes, banking, job safety, vocabulary study, buying a used vehicle, and healthy living. Students who have met their academic requirements for graduation may be released from school, providing their own transportation, to go to a work site where they will gain valuable work or internship experience. Through this experience, students will build the knowledge, skills and self-confidence to be successful in higher education, in the workplace and in life. Students must maintain regular attendance and passing grades in academic classes or lose their afternoon work privileges. Business and education partners work together to evaluate and supervise the experiences. Juniors may earn up to two credits per academic year and seniors may earn up to four credits through Work Study/Internship. 120 hours are needed per credit. This program is not offered during the summer. Only hours completed during the academic year will count for credit.

JUNIOR RESERVE OFFICER TRAINING CORPS (JROTC)

The JROTC program and curriculum is designed to equip students with leadership skills and experiences that prepare students for success for their next steps in higher education and career pathways. The program also successfully prepares students to transition for officer selection at the collegiate level in ROTC programs. There is no obligation to join the military by participating in JROTC. The program outcomes include: Lead ethically and effectively in diverse environments, Engage in civic and social action at local and national levels, Graduate prepared for higher education or career pathways, Promote physical and emotional wellness through informed choices, and Recognize service through military and community organizations.

Leadership Education Training (LET) 1-The Emerging Leader (591)

Prerequisite(s): None

Credit: 1

Grade: 9, 10, 11, 12

Length: 1 Year

Cost: Lab Fee

Prepares students/Cadets for personal success with a focus on personal growth, team building, decision making systems for achieving goals, and effective strategies for handling internal and external conflict. Students will explore health and fitness, and examine ways to manage stress in life. Students will also explore cyber ethics, and cyber security careers and concepts.

FAMILY & CONSUMER SCIENCE

Foods I (411)

Prerequisite(s): None

Credit: .5

Grade: 9, 10, 11, 12

Length: 1 semester

Cost: Lab Fee

This practical course combines culinary skills with real-world budgeting knowledge. Students will learn how to plan and prepare nutritious meals while staying within a budget. Through cooking labs, cost comparisons, and budget-focused projects, students will gain essential skills for independent living and financial responsibility.

Foods II (412)

Prerequisite(s): Foods I

Credit: .5

Grade: 9, 10, 11, 12

Length: 1 semester

Cost: Lab Fee

Building on the skills and knowledge of Foods 1, this course will focus on more advanced baking and cooking skills. Students will take on the responsibility of modifying and creating their own recipes. They will learn to prepare meals using the various tools and appliances in the kitchen, while at the same time developing teamwork, problem-solving and time management skills.

LANGUAGE ARTS

English 9 (200)

Prerequisite(s): None
Grades: 9

Credit: 1
Length: 1-year

Cost: Novel Fee

English 9 focuses on the development of grammar, composition, and literature, as well as the study of vocabulary. Students will read, discuss, and evaluate short stories, nonfiction, poetry, drama, and novels. Students will broaden their vocabulary and expand their word choice. They will develop recognition of parts of speech and common conventions, such as sentence structure, capitalization, and punctuation. Composition skills will be enhanced through the study of various essay formats, including timed essays, personal narratives, literary analyses, reviews, compare-and-contrast essays, and persuasive essays.

English 10 (202)

Prerequisite(s): English 9
Grades: 10

Credit: 1
Length: 1-year

Cost: Novel Fee

English 10 concentrates on fiction and non-fiction texts, speaking and listening, viewing and visually representing, and composition. Student will analyze novels, historical documents, short stories, poetry, speeches, and themes across different media and texts. They will demonstrate their analytical ability through writing, projects (individual and group), presentations, speeches, and classroom discussion. Compositions will focus on college style writing exploring narrative, informative, and persuasive essays as well as literary analysis while adhering to proper formatting guidelines and including in-text citations and Works Cited pages when applicable. Students will continue to develop vocabulary and word usage skills as well as demonstrate appropriate use of the English language in spoken and written format.

English 11 (204)

Prerequisite(s): English 9 & 10
Grades: 11

Credit: 1
Length: 1-year

Cost: Novel Fee

English 11 explores the history and continuity of American literature and emphasizes the development of writing skills and vocabulary. The students will complete a term paper in the spring, along with a variety of reading assignments and written essays. Students will study the origin and development of American literature and major literary movements. Students will write paragraphs, essays, and reports on a variety of topics to demonstrate analytical and critical abilities. Students will continue to develop vocabulary and word usage skills. Students will study the characteristics and importance of style in both reading and writing.

English 12 (206)

Prerequisite(s): English 9, 10, & 11
Grades: 12

Credit: 1
Length: 1-year

Cost: None

English 12 encompasses a sampling of the British literature curriculum from the Anglo-Saxons through the 21st century while incorporating informative texts from present-day issues. There will be a variety of genres used to achieve this: short stories, poems, novels, plays, and articles. There will be essays assigned that are personal, informative, and narrative-based. At various times throughout the course, there will be projects assigned, both individual and group, and speaking and listening skills will be assessed. Most of the class is paperless, so students will be expected to use technology to access handouts, articles, books, and Google Drive.

English Composition (730)

Only offered for CCP through Rhodes State College COM 1110. See page 18.

Prerequisite(s): CCP requires a 3.0 GPA or 2.75GPA as well as a B in English 11 or 18 ACT English score or 22 ACT Reading or 241 Next Gen Reading Accuplacer score.

Credit: 1
Length: 1 semester

Grades: 12
Cost: None

This is a workshop class that provides practice in organization and effective expression of ideas through writing. The variety of writing includes narratives, abstracts, technical, persuasive, and creative writings. MLA8 citations will be used and an extensive persuasive essay is a culminating project of the class. Revision and peer feedback are used throughout the class. Most of the class is paperless, so students will be expected to use technology to edit, share, and access handouts and articles.

Technical Writing (731)

Only offered for CCP through Rhodes State College COM 1140. See page 18.

Prerequisite(s): CCP requires C or better in English Composition (COM 1110)

Credit: 1
Grades: 12
Length: 1 semester
Cost: None

Extensive application of the principles of good writing in industrial and academic reporting, with emphasis on the techniques of presenting information graphically as well as in clear, concise, written form.

Introduction to Literature (734)

Only offered for CCP through Rhodes State College LIT 2210. See page 18.

Prerequisite(s): CCP requires C or better in English Composition (COM 1110)

Credit: 1
Grades: 12
Length: 1 semester
Cost: None

Serves as an introduction to the three major areas of literature: poetry, drama, and prose. It provides an overview of the three genres and may focus on a central theme.

Public Speaking (209)

CCP credit through Rhodes State College (733 – COM 2100). See page 18.

Prerequisite(s): CCP requires a 2.75GPA as well as a B in English 11 or 18 ACT English, 22 ACT Reading or 250 Next Gen Reading Accuplacer score.
Credit: 1 Grades: 11, 12 Length: 1 semester Cost: None

Public Speaking covers the main types of speeches: informative, demonstrative, impromptu, and persuasive. Students will write their own speeches, present them to the class, and have a visual for each speech. There will also be a partner persuasive speech, and students will be expected to create a digital presentation for this. Peer evaluation is also used to help improve speaking skills.

World Mythology (222)

Prerequisite(s): None Credit: .5
Grades: 11, 12 Length: 1 semester Cost: Novel Fee

In World Mythology, students will explore myths, stories, and the hero's journeys from all around the globe through movies, literature, essays, and individual projects. Joseph Campbell's studies of The Hero's Journey as discussed in *The Power of Myth* will be utilized as a basis for comparison throughout the semester. *Students who enjoy reading, working independently, and developing cultural awareness would enjoy this new humanities class.*

Reading Survey (221)

Prerequisite(s): None Credit: .5
Grades: 9, 10, 11, 12 Length: 1 semester Cost: Novel Fee

Reading Survey is designed to strengthen students' critical reading and thinking skills, improve their academic literacy, and expand their literary foundation. Through a framework of meaningful content, on-going assessment, and focused, explicit instruction, students will evaluate literature of diverse formats (e.g. print media, web-based texts, literary and informational books, articles and speeches) and varied genres (including autobiography, mystery, fantasy, sci-fi, and nonfiction to name a few). Additionally, students will demonstrate competencies through purposeful applications based on individual and collective literacy goals. Students who enroll in this course should expect regular reading assignments and be prepared to engage in meaningful discussion on a daily basis.

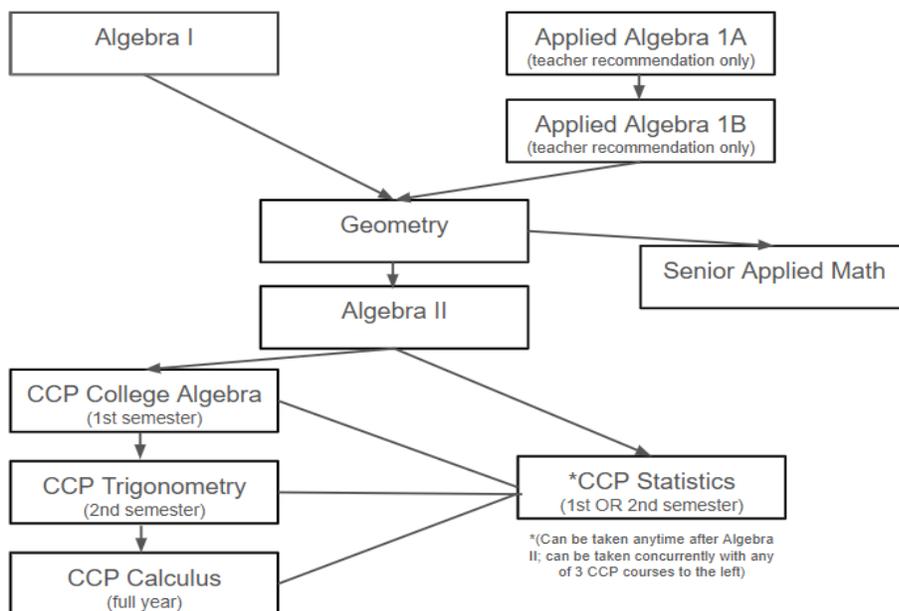
Yearbook I, II, III, and IV (360, 361, 362, 263)

Prerequisite: Application Credit: 1
Grades: 9, 10, 11, 12 Length: Full Year Cost: None

This course will be in charge of producing the high school annual. Basic concepts of running a business will be covered. Topics such as raising money through ad campaigns and patrons, cutting costs to maintain a positive balance, meeting your customer's needs and wants, and seeing a project from start to completion will be taught. When a student leaves this class, they will have experience in completing short and long-term goals and working as a team. They will also have samples of their work to show college recruiters and business professionals. The class is primarily project oriented, giving students a hands-on approach to learning. Evaluations will be based primarily on deadline completions and class contributions.

MATHEMATICS

Liberty-Benton Mathematics Sequence



Applied Algebra 1A (101)

Prerequisite(s): None
Grades: 9

Credit: 1
Length: 1 Year

Cost: None

Applied Algebra 1A is the first of two year-long courses taken to cover the concepts of the Algebra 1 curriculum. Taken during freshman year, the class starts by working through a solid review of Pre-Algebra foundational concepts. It then progresses into learning the first 60% of the Algebra 1 curriculum, which includes the concepts of Expressions, Equations in One-Variable, Relations & Functions, Linear & Non-Linear Functions, Creating Linear Equations, Solving Linear Inequalities, and Systems of Linear Equations and Inequalities. Pacing of the content will be such that students will have the opportunity to explore concepts and make deep mathematical connections to build solid foundations algebra skills.

Applied Algebra 1B (102)

Prerequisite(s): None
Grades: 10

Credit: 1
Length: 1 Year

Cost: None

Applied Algebra 1B is the second of two year-long courses taken to cover the concepts of the Algebra 1 curriculum. Taken during sophomore year, the class will start by working through a solid review of the beginning Algebra 1 foundational concepts taught in Algebra 1A. It then progresses into learning the remaining 40% of the Algebra 1 curriculum, which includes Exponents & Roots, Exponential Functions, Polynomials, Quadratic Functions, and Statistics. Upon completion of the curriculum portion of the class, an intense practice and spiral review process will occur to offer students a strong and thorough test preparation (both of content and strategies) for success on the Algebra 1 End of Course Exam, which is a graduation requirement.

Algebra I (103)

Prerequisite(s): Pre-Algebra
Length: 1-year
Cost: Students are encouraged to have a TI-83, TI 83 Plus, TI-84 or TI-84 Plus graphing calculator

Credit: 1
Grades: 9, 10

Algebra I is the first of the 'core' college-preparatory math courses, but is not restricted to those who intend to go to college. Topics from Pre-Algebra are reviewed, including arithmetic of signed numbers and solving simple linear equations. Also taught are factoring, solving linear inequalities and quadratic equations of 1 variable, and solving equations and simplifying expressions that involve algebraic fractions. Students will gain experience in setting up and solving systems of equations. The concept of a function is introduced and developed, and students are taught to evaluate and graph linear and quadratic functions.

Geometry (104)

Prerequisite(s): Algebra I
Length: 1-year
Cost: Students need to have a TI-83, TI 83 Plus, TI-84 or TI-84 Plus graphing calculator as well as a compass and straightedge.

Credit: 1
Grades: 9-11

Trigonometry (722)

Only offered for CCP through Rhodes State College (MTH 1430). See page 18.

Prerequisite(s): CCP requires a *2.75 GPA and a B or better in College Algebra (MTH1370)* or *24 ACT Math Score* or a *261 AAF Accuplacer score*.

Credit: 1 Grades: 11, 12

Length: 1-semester

Cost: Each student needs TI-83, TI 83 Plus, TI-84 or TI-84 Plus graphing calculator

This course covers equations and inequalities, complex numbers, graphs and equations of lines, functions including quadratic functions and composite functions, inverse functions, polynomial and rational functions, the Fundamental Theorem of Algebra, exponential and logarithmic functions, systems of equations and inequalities, conic sections, and sequences and series.

Calculus (109)

CCP credit through Rhodes State College (723 – MTH 1711). See page 18.

Prerequisite(s): CCP requires a *3.0 GPA and a B or better in College Algebra (MTH1370) and Trigonometry (MTH 1430)* or a *25 on the ACT Math* or a *271 AAF Accuplacer score*.

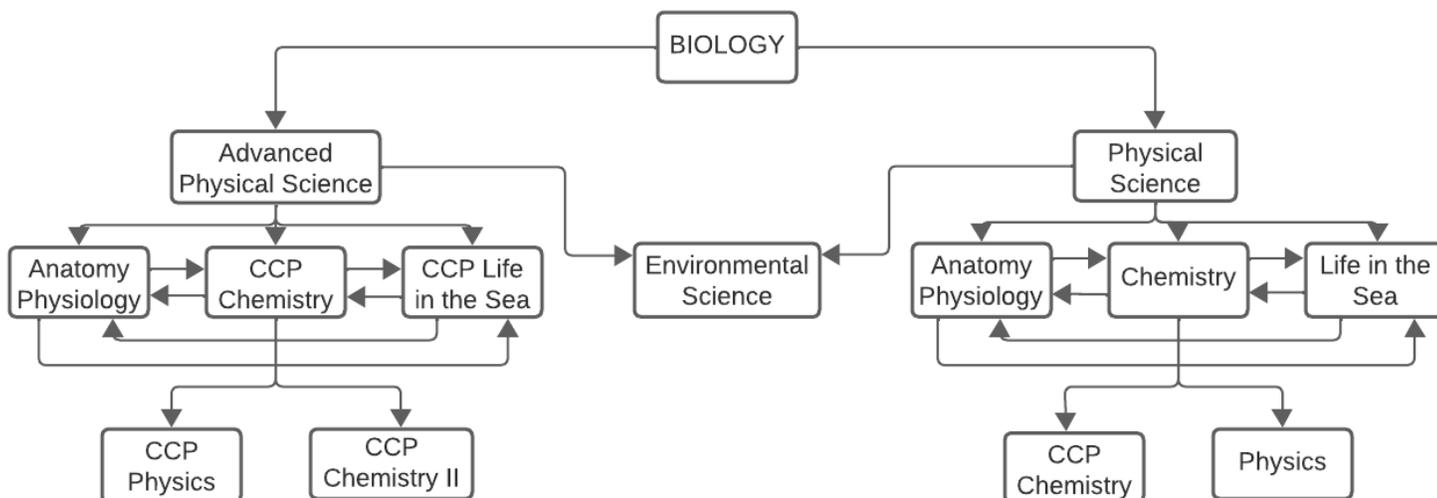
Credit: 1 Grades: 12

Length: 1-year Cost: None

Calculus is for the student who plans to have a college major in sciences, engineering, economics, and/or business, and has completed all other college preparatory math courses offered at Liberty-Benton. Taught are the topics Functions, Limits and Continuity, Extrema, Mean Value Theorem, Curve Plotting the Derivative and its applications, and the Integral and its applications.

SCIENCE

Liberty-Benton Science Sequence



Biology (151)

Prerequisite(s): None

Grades: 9

Credit: 1

Length: 1-year

Cost: Lab Fee

Biology is the study of all forms of life. In depth emphasis will be placed on the following areas: Properties and processes necessary for life. This includes the study of the cell, DNA, principles of heredity, and the history and evolution of life as it pertains to biological sciences, the diversity and interdependence of all life including various ecosystems and the interaction of living and non-living things, Historical perspectives, scientific approaches, and emerging scientific issues associated with the life sciences.

Physical Science (152)

Prerequisite(s): Biology

Grades: 10

Credit: 1

Length: 1-year

Cost: Lab Fee

This course introduces the general physical and chemical factors that will prepare students to be successful in subsequent science courses. An inquiry-based approach will be used to emphasize the following area: Graphical Analysis and Measurements, Significant Digits, Dimension Analysis, Energy, Constant Velocity, and Density.

Advanced Physical Science (153)

Prerequisite(s): Biology

Grades: 10

Credit: 1

Length: 1-year

Cost: Lab Fee

This course introduces advanced physical and chemical factors that will prepare students to be successful in the CCP Chemistry and Physics classes. An inquiry-based approach will be used to emphasize the following areas: Graphical Analysis and Measurements, Significant Digits, Dimension Analysis, Constant Velocity, Density, Atomic Structure, Nuclear Chemistry and the Periodic Table.

Environmental Science (158)

This is not a college prep course or NCAA core course.

Prerequisites: Biology

Grades: 11, 12

Credit: 1

Length: 1-year

Cost: Lab Fee

Environmental Science is an introductory course designed to apply basic geology, chemistry, and biology to understanding the environmental impacts of human activities. Topics covered include water resources, conservation and pollution; soils and geological processes; energy resources and conservation; atmospheric processes and air pollution; solid and hazardous waste management; population dynamics; and biodiversity. The political, economic, social, and moral aspects of resource use and environmental impacts are also explored. This is a lab course and will expose students to a variety of lab and field techniques.

High School Chemistry (154)

Prerequisite(s): Recommended: Algebra II and Physical Science with a minimum grade of a "C"

Credit: 1

Grades 11, 12

Length: 1-year

Cost: Lab Fee

Students will explore the fundamental principles of chemistry which characterize the properties of matter and how it reacts. Chemistry is a laboratory-based class which encourages small group learning and will utilize both computer-based and traditional laboratory techniques to obtain, organize and analyze data. Conclusions are developed using both qualitative and quantitative procedures. Topics include but are not limited to: measurement, dimensional analysis, physical properties of matter, atomic structure, electron configuration, periodic properties, chemical bonding,

chemical reactions, the mole & stoichiometry, gasses, acids & bases. The main goal of this course is to provide a solid foundation in the study of matter and its changes. All students will develop methods of problem solving and proper laboratory technique.

CCP Chemistry (725)

Only offered CCP through Rhodes State College (725 – CHM 1110). See page 18.

Prerequisite(s): *Algebra I with a minimum grade of a “C” or a 221 QAS Accuplacer score or 200 AAF Accuplacer score.*

Credit: 1 Grades: 11, 12 Length: 1-year Cost: Lab Fee

Students will explore the fundamental principles of chemistry which characterize the properties of matter and how it reacts. Chemistry is a laboratory-based class which encourages small group learning and will utilize both computer-based and traditional laboratory techniques to obtain, organize and analyze data. Conclusions are developed using both qualitative and quantitative procedures. Topics include but are not limited to: measurement, dimensional analysis, physical properties of matter, atomic structure, electron configuration, periodic properties, chemical bonding, chemical reactions, the mole, stoichiometry, gasses and acids and bases. The main goal of this course is to provide a solid foundation in the study of matter and its changes. All students will develop methods of problem solving and proper laboratory technique. Students who take this class will be eligible to take Chemistry 1110 for College Credit Plus through Rhodes State College. This course will move at a faster pace and include additional topics than College Prep Chemistry and will require time spent outside of class to complete assignments, projects and study for exams.

Chemistry II (726)

Only offered CCP through Rhodes State College (CHM 1200). See page 18.

Prerequisite(s): *2.75 GPA and C or better in high school Chemistry and a B or better in Algebra II or a C or better in CHM 1110 or a 200 AAF Accuplacer Score.*

Credit: 1 Grades: 12 Length: 1 Semester Cost: Lab Fee

Introduces the fundamental principles of chemistry, including measurement and calculation; chemical stoichiometry; the properties of gasses; atomic and molecular structure; bonding; thermochemistry; and periodic properties.

Physics (156)

CCP credit through Rhodes State College (727 – PHY 1120). See page 18.

Prerequisite(s): *2.75 GPA, Chemistry with a minimum grade of “C”; Algebra II with a minimum of a “C”.*

Credit: 1 Grade: 12 Length: 1-year Cost: Lab Fee

This course of physics is designed to introduce physics to students with a wide range of backgrounds and abilities. The class will show students how physics relates to their lives and the world around them. There is emphasis on mechanics, specifically motion and the forces that cause the motion. We also cover a variety of other topics including: momentum, energy, work, power, waves, fluids, and thermodynamics. The course uses the modeling format of learning which is a hands-on approach. Students develop a thorough understanding of the key concepts and how to apply them to real life situations. Key methods of learning include: interpretation and analysis of data, graphical analysis, vector analysis, and development of the mathematical model. The class emphasizes a deeper, qualitative understanding of the key concepts. Projects during the year include building a trebuchet and several practicals. The trebuchet involves some work at home, with time in class to perfect and problem-solve.

Anatomy and Physiology (157)

Prerequisite(s): *Biology with a minimum grade of “C”.*

Credit: 1 Grades: 11, 12 Length: 1-year Cost: Lab Fee

This course will focus on the study of human anatomy, identification and naming of body structures, and a study of human physiology- functions of body structures as well as the interrelatedness of body structure and function. The course will include lecture, discussion and laboratory sessions.

Emphasis will be placed on the following:

1. Studying the relationship of structure and function of the major organ systems of the human body.
2. Studying the effects of diseases and disorders on the body structures.
3. Laboratory study including extensive dissections and related physiology experiments.

Life in the Sea (600)

CCP credit through Bowling Green State University (600 – BIOL 1080). See page 18.

Prerequisite(s): *Biology with a minimum grade of “C”*

Credit: 1 Grades: 11, 12 Length: 1-year Cost: Lab Fee

Life in the Sea is a course that explores the many dimensions of our oceans, including seafloor geology, the chemical and physical properties of ocean water, the diverse plant and animal life found in marine environments, and the complex relationships between humans and the sea. Emphasis is placed on developing a respectful, caring attitude toward the oceans and their inhabitants.

Designed for students with a strong interest in science, this course requires maturity, independence, initiative, and self-motivation. Students will engage in a wide range of learning experiences from dissections and hands-on projects to lectures and discussions.

After completing the course, students have the opportunity to participate in an optional field trip to the Florida Keys, typically held during the first week of June. This experience allows students to apply and deepen their classroom learning through real-world exploration.

SOCIAL SCIENCE

America and the World I (250)

Prerequisites: None
Grade: 9

Credit: 1
Length: 1-year

Cost: None

These two courses are designed to provide a basic background in American History with reference to major developments in the world from 1877 to 1930. They will include a general overview of history during this time period, study of specific topics, analysis of historical events and study changes that have shaped our culture and nation's history. Topics will include reconstruction, urbanization, and immigration, U.S. Imperialism, Spanish-American War, World War I and the Jazz Age. Students will be expected to complete regular classroom and homework assignments. This work will include reading, taking class notes, Google site and doc information, writing, and analytical thought. Evaluation will be based on a combination of test and quiz scores, homework, and occasional class work and projects.

America and the World II (251)

Prerequisites: America and the World I
Grade: 10

Credit: 1
Length: 1-year

Cost: None

These two courses are designed to provide a basic background in American history with references to major developments in the world from 1920 to the present. They will include a general overview of history during this time period, study of changes that have shaped our culture and nation's history. Topics will include the Roaring Twenties, Great Depression, the New Deal, World War II, the Cold War, the Korean War, the Civil Rights Movement, the Counterculture Movements, the Cuban Missile Crisis, the Vietnam War, Watergate, the 1980s Conservative Era and the War on Terrorism. Students will be expected to complete regular classroom and homework assignments. This work will include reading, taking class notes, Google site and doc information, writing, and analytical thought. Evaluation will be based on a combination of test and quiz scores, homework, and class work and projects.

United States Government (252)

Prerequisite: America and the World I and II
Grade: 11

Credit: 1
Length: 1-year

Cost: None

United States government is a full year course intended to teach students about the basic functions of our government. A strong emphasis will be placed on applying principles learned in class to current issues. The primary objective of the class is to help students develop critical thinking skills as they become more actively aware of the government policies and practices that affect every aspect of life in the United States. This becomes increasingly important as the students realize that they either are, or soon will be 18 years old. Consequently, they become adults in the eyes of the law. **The best citizen is an informed one!!!!!!** In this course students will learn about the work of Congress through class simulations. Topics of study include, but are not limited to: The political party system, Civil liberties, Executive power, Congressional power, and Judicial power. At the conclusion of this course students will be able to: 1. acquire a solid understanding of the constitutional foundation of American democracy as well as the major forces and events, influences and ideas that shaped the evolution of the American political system, 2. articulate course materials acquired through listening, reading, and internet and library research, 3. articulate and analyze political issues from different political perspectives, and 4. analyze social institutions and human behavior using political frameworks.

Financial Literacy (254)

Prerequisite: None
Grade: 12

Credit: .5
Length: 1 semester

Cost: None

The semester course will focus on the skills students will need in order to compete in a globalized economy. The course will begin with a look at the budget process with regards to spending and saving. An in-depth look at debt will include, but not be limited to the following: Credit Cards, Credit Score, Credit Report, and Loans. Students will also learn about the economic impact/need for insurance and the various forms it comes in. The course will also spend considerable time introducing the idea of investing and how it relates to retirement and income. Finally, students will analyze the various methods of taxation, including the process of filing an income tax return.

World History I (260)

Prerequisite(s): None
Grades: 9, 10, 11, 12

Credit: .5
Length: 1 semester

Cost: None

This course is designed to provide education in World History. The first semester will emphasize ancient river civilizations through the rise of the classical civilizations. Topics will include: Stone Age development, the Rise of River Valley Civilizations, the Rise of World Religions – Judaism, Hinduism, Buddhism, Islam, and Christianity.

World History II (261)

Prerequisite(s): None
Grades: 9, 10, 11, 12

Credit: .5
Length: 1 semester

Cost: None

The course will cover the Classical Civilizations of Ancient Greece and Rome through the advent of the Modern World. Topics will include: Classical civilizations: Ancient Greece and Rome, the Middle Ages, the Renaissance and Reformation, Age of Exploration. And the Age of Enlightenment. Evaluation will be based on daily assignments, quiz scores, projects.

Sociology (256)

Prerequisite: None

Credit: .5

Grades: 11, 12

Length: 1 semester

Cost: None

Sociology studies groups and how groups interact with each other. It may include culture, socialization, conformity, crime, poverty, and minority groups, inequalities of gender and age, and social control. Grading will be based on daily assignments and projects.

American History in Film (257)

Prerequisite: None

Credit: .5

Grades: 10, 11, 12

Length: 1 semester

Cost: None

Can films and movies be used as a source of historical information? Students will examine that question as they learn American History through the lens of film and movie. Students will view a variety of films throughout the semester and will analyze them as historical evidence. Among the eras that will be covered are: The American Revolution, American Civil War, Reconstruction, World War II, and the Vietnam War.

Issues that Shaped America (258)

Prerequisite: None

Credit: .5

Grades: 10, 11, 12

Length: 1 semester

Cost: None

This course is designed to dive deeper into major events that shaped our country. Issues that have created controversy within our country that still exist today will be covered. Regular classroom works include reading, researching via google and other sources. Analytical thought and discussion will be a major portion of the class. Major topics that will be covered include: European discovery of America, and the effect on Native Americans - Introduction to slavery in North America - Founding documents and the division it created - Immigrants and the expansion west - Holocaust - Civil Rights in America - The JFK assassination - Rise of subcultures in America - American involvement in the Middle East.

College Credit Plus Courses taught at Liberty-Benton High School

Students may apply to take the following courses for high school and college credit through the universities indicated. In order to receive college credit, students must apply to and be accepted by the university. The colleges have specific prior course grades and test scores required for individual courses. These courses will be taught by our LBHS staff or university professor during the regular scheduled school day.

TAG - Transfer Assurance Guides - guarantee transfer for specific pre-major and beginning major coursework.

OTM - Ohio Transfer Module - general education courses that are guaranteed to transfer from one Ohio public institution to another.

Bowling Green State University

<u>LBHS</u>	<u>Bowling Green State University</u>	<u>College Credit</u>	<u>TAG / OTM</u>
Life in the Sea	BIOL1080- Life in the Sea	3 semester hours	OTM

Rhodes State College

<u>LBHS</u>	<u>Rhodes State College</u>	<u>College Credit</u>	<u>TAG / OTM</u>
American History to 1877	HIST 1610 – American History to 1877	3 semester hours	TAG / OTM
American History Since 1877	HIST 1620 – American History Since 1877	3 semester hours	TAG / OTM
American Sign Language I	ASL 1010 – American Sign Language I	4 semester hours	TAG
American Sign Language II	ASL 1020 – American Sign Language II	3 semester hours	TAG
American Sign Language III	ASL 2010 – American Sign Language III	3 semester hours	TAG
American Sign Language IV	ASL 2020 – American Sign Language IV	3 semester hours	TAG
Spanish I (starting 24-25)	SPN 1010 - Beginning Spanish I	3 semester hours	TAG
Spanish II (starting 25-26)	SPN 1020 – Beginning Spanish I	3 semester hours	TAG
Spanish III	SPN 1020 – Beginning Spanish II	3 semester hours	TAG
Spanish IV	SPN 2010 – Intermediate Spanish I	3 semester hours	TAG
Spanish V	SPN 2020 – Intermediate Spanish II	3 semester hours	TAG
Personal Computing	CPT 1250 – Computer Applications in Workplace	3 semester hours	
C.A.D I	MET 1000 – Eng. Graphics w/AutoCAD	3 semester hours	TAG
Into. to Manufacturing	SMC 1200 – Introduction to Manufacturing	3 semester hours	
Semiconductors 101	SMC 1000 – Semiconductors 101	3 semester hours	
Statistics	MTH 1260 – Statistics	3 semester hours	OTM
College Algebra	MTH 1370 – College Algebra	4 semester hours	OTM
Trigonometry	MTH 1430 – Trigonometry	3 semester hours	OTM
Calculus	MTH 1711 – Calculus	5 semester hours	OTM
Advanced Chemistry	CHM 1110 – Intro. To General Chemistry	4 semester hours	OTM
Chemistry II	CHM 1200 - General Chemistry	4 semester hours	OTM
Physics	PHY 1120 – Physics I	4 semester hours	TAG / OTM
Introduction to Literature	LIT 2210 - Intro to Literature	3 semester hours	
English Composition	COM 1110 – English Composition	3 semester hours	OTM
Technical Writing	COM 1140 – Technical Writing	3 semester hours	OTM
Public Speaking	COM 2110 – Public Speaking	3 semester hours	OTM
Ag., Food & Nat. Resources	AGR 1000 – Introduction to Agriculture	3 semester hours	