

WESTERN RESERVE

Middle/High School



2017-2018

COURSE CATALOG

Revised 3/7/17

AGRICULTURE

010105 Agriculture, Food and Natural Resources (AFNR) One credit

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. **This is the foundational course and is the prerequisite to all other agriculture courses offered. Membership in the student organization FFA is required.**

010125 Animal and Plant Science One credit

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. Student 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. **Together with AFNR, this course satisfies students' third science requirement. Membership in the student organization FFA is required. Prerequisite: AFNR or instructor permission.**

010190 Agriculture and Environmental Systems Capstone One Credit

Students will 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 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. With proper paperwork and approval, students may be eligible for early release. This class is open only to seniors who have previously taken Agricultural Education courses. Membership in the student organization FFA is required. Students must attain 400 hours of placement to earn credit. **Prerequisites: AFNR, Employment/Internship, and instructor permission.**

011010 Science and Technology of Food One credit

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. **Together with AFNR, this course satisfies students' third science requirement. Membership in the**

student organization FFA is required. Prerequisite: AFNR or instructor permission.

010210 Agricultural and Industrial Power	One Credit
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In this course, students will learn the breadth of the Agricultural and Industrial Power Technology pathway. Students will learn the principles of power technology equipment systems which will include electronic and electrical systems, engines and fuels, hydraulic systems and power train components. Additionally, students will learn to safely operate and maintain machinery and equipment along with the principles of welding and metal fabrication. **Membership in the student organization FFA is required. Prerequisite: AFNR or instructor permission.**

010120 Mechanical Principles	One Credit
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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 identify, diagnose, and maintain small air-cooled engines. Throughout the course, students will learn critical components of site and personal safety as well as communication and leadership skills. **Membership in the student organization FFA is required. Prerequisite: AFNR or instructor permission.**

OR

010115 Business Mgmt for Agricultural and Environmental Systems	One credit
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Students will examine elements of business, identify organizational structures and apply management skills while developing business plans, financial reports and strategic goals for new ventures or existing businesses. Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Throughout the course students will apply concepts of ethics and professionalism while implications of business regulations will be identified. ~~This course satisfies students' financial literacy and economics requirements.~~ **Membership in the student organization FFA is required. Prerequisite: AFNR or instructor permission.**

ART

0814 8th Grade Art	Middle School	Fee
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This beginning art class is an introduction to the visual arts. Students will be introduced to the drawing process including drawing skills, color theory, painting techniques, design concepts, and craftsmanship through several projects. The emphasis will be for students to learn how to work with and control the media while learning how to express themselves creatively.

0900 Art I	1 credit	Fee
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This is a beginning level art class. The Art I level class is taught at a beginning level. In this class Students will learn how to look at, describe and discuss a work of art, giving the students a greater ability to understand and appreciate works of art. Students will be introduced to design, drawing and painting and will work on improving their skills and control over the media. Other media the students will be working with will be watercolor, pastel, and ceramics, along with the study of some art history. Students will also learn how to use technology to aid in the production of artwork.

0905 Art II	1 credit	Fee
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Art II students will continue to study and express their ideas with greater emphasis on design, color theory and drawing skills, providing further opportunity for growth and self-expression as an artist. Students will continue to improve their ability to discuss and analyze art through the study of other works of art. Students will continue to experience a variety of media including drawing, painting, a craft (batik, ceramics etc.), computer, and the study of some art history while developing their own ability to create a greater sense of 3D and their own art style. Students will continue to use technology to aid and create artwork and prepare artwork. **Prerequisite: Art I OR Drawing.**

0910 Art III	1 credit	Fee
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The Art III class is a continuation of the skills taught in Art II with a continued emphasis on design, drawing, and color theory. Students will explore the use of various media through landscape, still-life, portrait drawing, the computer, and a craft while developing their personal style. Students will continue to improve their appreciation and ability to discuss and analyze art through the study of other works of art. Art III students will be encouraged to continue to develop and express their ideas through a variety of media. Students will also learn how to use technology to aid in the production of artwork.

Prerequisite: Art II

0915 Art IV	1 credit	Fee
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Art IV content includes a review of the fundamentals covered in Art III with a greater emphasis on self-expression and self-evaluation. Students within the course will research a variety of artistic approaches and styles throughout history which will help them develop their own personal style through a variety of media within their projects. Students in this course should be working more independently, almost to the point of self-motivation, exploring and developing their own techniques, styles, and forms of expression. Students will continue to improve their appreciation and ability to discuss and analyze art through the study of other works of art. Students will continue to use technology to aid in the production of artwork. **Prerequisite: Art III**

0925 Ceramics I	1 credit	Fee
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This is a beginning level ceramic class. This is an introduction to working with clay focusing on the creation of well-designed three-dimensional functional forms such as pinch pots, mugs, vases, tea pots, whistles, wind chimes, mirrors, etc. We will learn how to do this through using pinch, slab and coil construction methods along with having the opportunity to experience working on the potter's wheel. Surface treatment, firing the

kiln, design concepts, color theory, and different methods of finishing projects will be covered.

0926 Ceramics II	1 credit	Fee
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This course will give the student further experience in working with clay through a sculptural approach. Construction methods of modeling (additive and subtractive sculpture) as well as pinch slab and coil construction will be used in the creation of their projects. Some of the projects may include relief sculptures, single and multiple life figure sculptural scenes, fountains, clocks, etc. Students will experience functional and sculptural projects as well as having further opportunities to work on the potter's wheel.

Prerequisite: Ceramics I

0935 Computer Graphics	1 credit	Fee
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What is the art tool of the future? The computer! Students will use this design tool in the projection of originally designed art work. Students become familiar with when and how to use Photoshop (image manipulating program (pixel)) and Illustrator (object oriented program (vector)) in the creation of works of art. Some of the projects may include designs, collages, t-shirt designs, airbrushing subjects, CD covers and more. Students will experience using a digital camera and scanner along with other computer software applications. The focus of this class will be to learn how to use the computer and its applications to express ideas and thoughts in the creation of artwork. Students will also learn how to use technology to aid in the production of artwork and how to prepare their work for a digital gallery. **Prerequisite: Grade of C or better in computers, Art I, Drawing, or Keyboarding.**

0930 Drawing	1 credit	Fee
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This is a beginning level drawing class. Students will learn a variety of drawing techniques and styles that will help increase perception, rendering skills, and improve hand-eye coordination while giving opportunities for self-expression. The subject matter for drawing will come from photographs, still-life, portraits, people, and imagination. Opportunity to work with various drawing media which may include: pencil, ink, charcoal, pastel, the computer, etc. The focus of this class will be for students to use the elements and principles of design while learning how to express themselves more effectively in the area of drawing through a variety of different subjects and media.

***Students having taken drawing will be able to skip Art I and advance to Art II.**

AP Studio Art: Drawing	1 Credit	Fee
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This college-level course is centered in observational drawing and is intended for those students who would like to possibly receive college credit. Students must be self-motivated to complete assignments, for the demands set by the College Board are high, but I am here to help you meet them. Students are expected to challenge themselves to develop mastery in their ideas, skills, and abilities in drawing. Course requires individual and group critiques, a sketchbook maintained, and may begin in the summer using the internet to communicate to alleviate class demands with the consensus of the class.

Sample portfolios may be found at <http://studioartportfolios.collegeboard.org>.

Throughout the course students will be exploring drawing issues including line quality,

light and shade, rendering of form, composition, surface manipulation, the illusion of depth and mark-making through a variety of means, such as drawing, painting, printmaking or mixed media using a variety of subjects and media. Students will be drawing from observation and can only use pictures they have taken for reference. Students are encouraged to take many pictures of people, animals, and still-life that interest them in preparation for the class. Have an unusual point of view, rule of thirds, focal point, or meaning within your pictures taken from many angles. Use a consistent focused single light source to create good form definition. Students within the AP Studio Drawing course will produce a minimum of 24 works that satisfy the requirements of the quality, concentration, and breadth sections. 12 works created in the breadth section will come from the assignments given the first semester and 12 works from the concentration section which will come from the students' areas of focus during the second semester. **This class requires students to produce a project of art every 1 ½ to 2 weeks. Students need to be motivated. Students should expect to work 4 to 8 hours per week outside of class to complete assignments. Upon the completion of this course, students can submit a portfolio to be evaluated by the College Board. Evaluations can then be considered for possible credit by the college students choose to attend. Prerequisite: Art 1 or Drawing with at least a B average or teacher's recommendation; junior or senior status.**

BUSINESS EDUCATION, COMPUTER SCIENCE, & CAREERS

XXX Middle School Careers

Middle School

Careers introduces students to the world of work. Utilizing Ohio Means Jobs, this course gives students the opportunity to explore various career areas that exist and introduces them to the realities involved with the workplace. The students will be introduced to such topics as: Making Proper Choices, Career Clusters, How to Find a Job, Resumes, Interview Skills, Job Application Skills, Workplace Ethics, and Working With Others.

0719 7th Grade Computer Applications

Middle School

This course provides students the opportunity to review keyboarding skills and technique to improve accuracy and speed. Upon completion of the course, students will be able to use Google Docs and Slides to create documents and maintain data as well as basics in Google Sheets. Career exploration will be incorporated as well. **Rotation.**

0515 Accounting

1 credit

This course introduces students to the recording and interpretation of business transactions. Students will learn business vocabulary, keeping systematic records and accounting practices related to sole proprietorships and corporations organized as service and manufacturing businesses. Journals and ledgers are developed and financial statements are prepared. Leadership and employability skills will be an integrated part of this class. **Prerequisite: junior or senior status or permission of instructor.**

0520 Business Management

1 credit

Topics addressed in this course include the assessment of entrepreneurial skills, the importance of business ethics, and the role of entrepreneurs in a free enterprise system. Students will acquire the knowledge and develop the skills needed to effectively organize, develop, create, and manage their own business. There will be a focus on understanding management theories and processes that contribute to the achievement of organizational goals. Leadership and employability skills will be an integrated part of this class.

033450 Sales and Marketing 1 credit

An introductory course designed for students interested in exploring how products are developed, produced, promoted, and distributed. Topics covered include basic marketing and economic concepts, the free enterprise system, legal and ethical issues concerning marketers, selling, advertising and promotion. In addition, communication, interpersonal, leadership and technology skills will be developed, as well as employability and career development strategies.

0540 Web Site Development 1 credit

Course includes web site design, posting/removing web sites to/from web server, and web programming HTML, XML, etc. Course will cover Universal Design and other accessibility methods.

0542 Advanced Web Site Development 1 credit

Course includes advanced web programming and applications, Universal Design, and other accessibility methods. **Prerequisite: Web Design I.**

0555 Computer/Multimedia Literacy (Announcements) 1 credit

Students will learn to use multimedia features such as photo and video editing software, presentation software, and TV productions, and learn to integrate Internet features in those programs. This course will emphasize communication skills through the use of technology to create professional-looking multimedia presentations incorporating voice, music, video, pictures, graphics, and animation.

Prerequisite: junior or senior status.

0509 Advanced Computer/Multimedia Literacy 1 credit

Students will learn to use multimedia features such as photo and video editing software, presentation software, and TV productions, and learn to integrate Internet features in those programs. This course will emphasize communication skills through the use of technology to create professional-looking text documents and multimedia presentations incorporating voice, music, video, pictures, graphics, and animation.

Prerequisite: senior status or permission of instructor.

0512 Multimedia (Video Projects) 1 credit

Students will learn to use multimedia features such as photo and video editing software, presentation software, and TV productions, and learn to integrate Internet features in those programs. This course will emphasize communication skills through the use of technology to create professional-looking multimedia presentations incorporating voice,

0640 ACT Test Prep Class 1/2 credit

XXX Career Communications **½ Credit**

UNIV 1290 Career Planning Dual Enrollment Course [¼ or ½ credit]

College and Career Rotation	One Credit
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AP Seminar **One Credit**

AP Research	One Credit
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AP Seminar is a prerequisite for AP Research. If you earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of your choosing, you will receive the AP Capstone Diploma™. This signifies outstanding academic achievement and attainment of college-level academic and research skills. Alternatively, if you earn scores of 3 or higher in AP Seminar and AP Research only, you will receive the AP Seminar and Research Certificate™. **Prerequisite: AP Seminar.**

ENGLISH/LANGUAGE ARTS

0710 Language Arts 7 Middle School

The main focus of this course will be reading and writing skills. Students will be working on their reading comprehension skills using different strategies. They will be reading various novels as well as stories from their literature books. Some of the writing topics to be covered include editorials, friendly and business letters, narratives, and speeches. Students will also work on writing conventions required for extended responses.

0710A Advanced Language Arts 7 Middle School

This course is designed to focus on higher order thinking skills within the context of the language arts curriculum based on the academic content standards. Students are required to write critically each week and independently read a minimum of eight books throughout the school year in addition to assigned novels. Students in this class are either identified as gifted learners in language arts or reading, are creative thinkers, or are teacher referred based on previous language arts work. This course consistently requires students to examine the use of grammar, think abstractly, and evaluate literary works.

Prerequisite: teacher permission based upon application (see Appendix A) and STAR test scores.

0810 Language Arts 8 Middle School Fee

This course covers basic writing, grammar, and knowledge of our English language. All material is coordinated with Ohio's Learning Standards. In preparation for high school, students will be held accountable for completed homework and good study skills in which good organizational skills will be emphasized. Students will be responsible for reading a variety of novels and books and complete a list of requirements in the form of projects.

0810A Advanced Language Arts 8 Middle School Fee

This course is designed to focus on higher order thinking skills within the context of the language arts curriculum based on Ohio's Learning Standards. Students are required to write critically each week and independently read a minimum of eight books throughout the school year in addition to assigned novels. Students in this class are either identified as gifted learners in language arts or reading, are creative thinkers, or are teacher referred based on previous language arts work. This course consistently requires students to examine the use of grammar, think abstractly, and evaluate literary works. **Prerequisite: teacher permission based upon application (see Appendix A) and STAR test scores.**

0100 English Language Arts 9 1 credit

English Language Arts 9 is a genres-based literature course aligned to Ohio's Learning Standards. Students will study fiction, nonfiction, poetry, and drama literary forms. Writing instruction will emphasize literary analysis, creative writing such as narratives and poetry, in addition to essay writing, which will emphasize organization and structure

based on a thesis statement. Students will study vocabulary and be instructed in sentence structure. Students will read several novels independently throughout the year.

0104	Advanced English Language Arts 9	1 credit
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This course will cover the same topics as English Language Arts 9 but move at a faster pace. There will be less review and more application with a more in-depth study of topics. This course is designed for a self-motivated individual. Students may be expected to complete a summer reading assignment and will read several novels independently throughout the year. Honors LA 9 will be weighted when calculating grade point average. **Prerequisite: teacher permission based upon application (see Appendix A), STAR test scores, and end of course exams.**

0105	Language Arts 10	1 credit	Fee
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Language Arts 10 is a language arts course focusing on academic skills needed for successful passage of the end-of-course exam. Emphasis will be placed on reading, vocabulary, composition, and grammar. Students will write expository, persuasive, and narrative compositions and will receive intensive review in writing conventions. Students study vocabulary and grammar in the context of their writing and literature. Also included are literature (short story), novel, nonfiction, and drama.

0106	Advanced Language Arts 10	1 credit	Fee
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This course will cover the same topics as Language Arts 10, but students will study works at deeper levels of application and evaluation. Vocabulary studies will focus on Latin roots. This course is designed for the self-motivated individual. **Prerequisite: teacher permission based upon application (see Appendix A) and STAR test scores.**

0110	Language Arts 11	1 credit
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Language Arts 11 is a language arts course aligned to Ohio's Learning Standards with a concentration on American and British literature. Students will write frequent essays of an expository, persuasive, research, and reflective nature. Students will study vocabulary and receive intensive review of and instruction in sentence structure including simple, complex, compound, and compound-complex sentences as well as preparation for the ACT. Students are expected to read several novels independently throughout the year.

XXX AP English Language and Composition	1 Credit	Fee
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This course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. The Advanced Placement Examination of the College Board will be required; colleges and universities establish their own policies for accounting the results of the Advanced Placement Test. Fee is for the AP test in May and a Career Portfolio. **Prerequisite: junior status and permission of instructor. Alternating years.**

0115 Language Arts 12**1 credit****Fee**

Language Arts 12 is a challenging course designed to prepare students for post-secondary college and career. A Senior Project with a career shadowing component is required. Students will write extensively, prepare a career portfolio, prepare for the ACT, and learn vocabulary words recommended for entering college freshmen. Students are expected to read several novels independently throughout the year.

0133 AP English Literature and Composition**1 credit****Fee**

This course aligns to an introductory college-level literary analysis course and engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students will consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. The Advanced Placement Examination of the College Board will be required; colleges and universities establish their own policies for accounting the results of the Advanced Placement Test. Fee is for the AP test in May. **Prerequisite: senior status and permission of instructor. Alternating years.**

BGSU GSW**Dual Credit – high school and college**

General Studies Writing is a college-level course taught through Bowling Green State University and designed to prepare students for the types of academic writing they will be expected to do in college. Therefore, the emphasis in GSW is on the development of critical and analytical skills that are used in both writing and reading. In order to help students develop these valuable skills, the course assists students through the process of writing critiques of academic articles, argument essays which synthesize multiple sources, and academic research papers. As students work on their various assignments, they acquire practice with choosing and narrowing topics, navigating libraries, selecting and evaluating appropriate sources, writing to a variety of academic audiences, considering the role visual rhetoric and other technologies play in their papers, writing several necessary drafts to arrive at a polished and coherent final draft, citing sources appropriately, and using acceptable documentation format.

0135 Journalism I**1 credit**

This course is responsible for the publication of the school newspaper and the *Carhesian* yearbook. It is a study of the basic fundamentals of news writing with emphasis on correct style procedures in writing articles, headlines and captions. Articles are assigned for publication in the district newspaper. Introduction to yearbook layout and design using online software is provided. All students are required to participate in fundraising as well as the sale of yearbooks and advertising. Students must be well-organized and self-motivated with the ability to work independently to meet deadlines. This course is not open to current freshmen. **Prerequisite: Teacher recommendation.**

0140 Journalism II, III **1 credit**

This course is a continuation of Journalism I. Students will take on the added responsibilities of page editors for the school newspaper and section editors for the yearbook. Students will also be responsible for organization and implementation of newspaper sales, yearbook sales and distribution, advertising sales, and fund raising. If involved in independent study while holding editor position, student will be placed on a semester-long trial period prior to adding title of editor to final transcript.

Prerequisite: Teacher recommendation.

059999 Media/Film Studies **1 credit**

Students in this class will study the rhetoric of various media including, film, literature, poetry, music and speeches. Students will learn how to use literary criticisms to support their theories on themes and will learn to develop their own arguments. In addition, students will complete their own short work of fiction and participate in round-table critiques to explore the effects of their own personal rhetoric on an audience of peers. Instruction in this supplemental English/Language Arts course will be centered on the benchmarks of the English/Language Arts Content Standards.

FAMILY AND CONSUMER SCIENCES

091201 Introduction to Family and Consumer Sciences **Middle School** **Fee**

This first course will provide students with an overview of the four major content areas of FCS. Students will be introduced to child development, family relationships concepts and how they relate to family dynamics. Additionally, students will identify financial literacy and consumer economic principles. Students will understand the concepts of design through textiles for personal and home use. Throughout the course, students will develop communication, leadership, and career investigation skills. Grades 7-8 with high school credit possible.

091410 Transitions and Careers **Middle School**

In this course, students will analyze interests, aptitudes and skills to prepare for careers and transition through life. An emphasis will be placed on work ethics, team building, communication and leadership skills. Additional topics will include technology etiquette and career planning. Grades 7-8.

091052 Personal Financial Management **½ credit**

In this course students will develop personal financial plans for individual personal well-being. Throughout the course, students will develop financial literacy skills to provide a basis for responsible citizenship and career success. Additional topics will include analyzing services from financial institutions, consumer protection, investing, and risk management. Grades 9-12.

091210 Global Foods **fee**

In this course, students will compare cuisines, ingredients and preferred cooking methods of various cultures. The influence of traditions and regional and cultural perspectives on

food choices and culinary practices will be emphasized. Students will examine the issues and conditions that affect the availability and quality of food in the global market, and apply advanced cooking techniques, including the use of specialty and advanced equipment in the preparation of food dishes.

091201 Introduction to Family and Consumer Sciences Fee

This first course will provide students with an overview of the four major content areas of FCS. Students will be introduced to child development, family relationships concepts and how they relate to family dynamics. Additionally, students will identify financial literacy and consumer economic principles. Students will understand the concepts of design through textiles for personal and home use. Throughout the course, students will develop communication, leadership, and career investigation skills. Grades 9-12.

091215 Food Science ½ credit Fee

In this course, students will apply basic culinary practices and understand how flavor, texture, and appearance are affected during food preparation. Students will evaluate chemical reactions as they occur in cooking methods and assess how to control high-risk food safety situations. Food safety and sanitation techniques will align to industry-recognized certifications. Grades 9-12.

091025 Child Development ½ credit Fee

In this course, students will study the principles of child growth, development, and behavior. An emphasis will be placed on the cognitive development of the child and sensory and motor skills. Additional topics will include childhood diseases, immunizations, theories of development, learning styles, and evaluating childcare services. Grades 9-12.

093015 Human Growth and Development ½ credit

In this course, students will analyze human growth and development throughout the lifespan. An emphasis will be placed on physical, cognitive, social, and emotional growth and development. Additional topics will include human characteristics and traits, genetic defects, parenting styles and responsibilities and cultural differences within a family unit and community. **May count as health credit with BOE approval.** Grades 9-12.

091403 Leadership and Community Engagement ½ credit

In this course, students will learn how to become an active community member and citizen. An emphasis will be placed on in-service learning, leadership training and teambuilding opportunities. Additional topics will include public policy issues, community and global engagement. Grades 9-12.

HEALTH AND PHYSICAL EDUCATION

0790 Middle School Physical Fitness **Middle School**

Physical education will provide at least 20 minutes' worth of cardio activities daily. Hygiene and appropriate dress for activity will be included. Team sports and activities as well as individual skill development for basic sports such as throwing, catching, moving, and balance will be emphasized. Good sportsmanship and effort will be expected at all times. Students are expected to follow the rules of game play at all times.

0891 Middle School Health **Middle School**

This course is (12 week/18 week) designed to provide students with a comprehensive approach to a health education program incorporating the most current educational research in health literacy. Health and wellness behaviors will be introduced, researched and mastered through the use of reading comprehension, presentations, role plays, discussions and writing activities. Understanding health vocabulary will be a key component as well as collaborative and group interactions to provide for student engagement. Specific topics covered include understanding health and wellness; responsible decision making and goal setting; physical activity and fitness; nutrition; managing stress; building healthy relationships; resolving conflicts and preventing violence; tobacco, alcohol and drugs; suicide prevention; changes during adolescence; and prescription opioid abuse prevention. Health current events will be presented on a weekly basis.

0410 High School Health **½ credit**

This is an 18 week (semester) course designed to provide students with a comprehensive approach to health education, incorporating the most current educational research in health literacy. We will review topics introduced in the middle grades as well as provide in-depth information needed to fully understand the major concepts related to a comprehensive health and wellness curriculum. Health vocabulary will be expanded and students will be expected to participate in individual, partner and group activities and presentations throughout the semester, including research projects, role playing, peer teaching and hands-on activities. Specific topics addressed will include teenage health issues, safety of energy drinks, obesity, addiction, impact of alcoholism on families, the role of media, suicide, medications and drugs, STD's, mental illnesses and disorders, dealing with conflict, violence and abuse, body image, becoming a health literate consumer, the heroin epidemic, and prescription opioid abuse prevention. Current events in the world of Health will be presented weekly, and health career professionals will serve as guest speakers.

Note: A student who, while in high school, has participated in interscholastic athletics, marching band, or cheerleading for at least two full seasons, may have his or her physical education requirement waived via application. Students electing this waiver shall complete ½ unit in another course of study.

0415 Physical Education 9 **¼ credit**

This course provides students the opportunity to develop their knowledge and skills while accepting responsibility for personal fitness that can lead to an active healthy lifestyle. Students are expected to enhance higher levels of basic fitness and physical competence

as needed for many work situations and active leisure participation. Health related fitness components covered will include cardio-respiratory endurance, muscular strength and endurance, flexibility and body composition. Expectations for improvements of students' fitness levels will be established on a personal basis: results of pre and post fitness assessment will be used to measure progress. Students will also be expected to demonstrate the ability to design and develop an appropriate personal fitness program that enables them to achieve a health- enhancing level of fitness. Students will participate in fitness activities for at least 20 minutes daily, develop and master movement and skills related to lifetime sports/activities, demonstrate self-initiated behaviors that promote personal and group success in activity settings, including safe practices, adherence to rules and procedures, cooperation and teamwork.

0420 Physical Education 10 **¼ credit**

Physical education 10 is designed to provide students with the opportunity to develop and master related skills, strategies, tactics and applications of rules used in lifetime sports and activities. Students will participate in strength training during the second 9 weeks of the semester and complete a fitness profile including individual pre and post fitness test results, height, age, and weight. Students will develop a 4 week individual fitness plan. Health related fitness components covered will include cardio-respiratory endurance, muscular strength and endurance, flexibility and body composition. This course is a continuation of the same activities and expectations provided in Physical Education 9.

0430 Advanced Phys. Ed. **½ credit**

Using periodic self-evaluations, goal setting, and fitness planning, students will learn the value of lifelong wellness and develop skills necessary to be physically active for life. Strength training and conditioning will be incorporated daily, application of the F.I.T.T. and training principles along with emphasis placed on cardiovascular endurance and muscular strength and endurance components of fitness. Students will design, implement, and evaluate personal fitness plans throughout the course. Game type activities will occur one day a week. **Prerequisite: PE 9 and PE 10.**

MATHEMATICS

0730 Math 7 **Middle School** **Fee**

The seventh grade math course is designed to refine and build upon the skills previously taught in the 6th grade mathematics course. This math course emphasizes computational skills, reading, and problem solving. Students will acquire skills in order of operations, understanding integers and rational numbers, scientific notation, proportions, measurement, geometry, probability, and beginning algebra concepts such as simplifying algebraic equations and graphing equations and inequalities.

0730A Advanced Mathematics 7 **Middle School** **Fee**

This course will prepare students to move into Algebra I as eighth graders. Emphasis is placed on higher order thinking skills, creative problem solving, and math investigations in addition to simplifying algebraic expressions, solving and graphing equations and

inequalities, ratios, proportions and probability. Students will build upon foundations in integers and rational numbers; review geometric concepts; and apply math formulas to perimeter, area, surface area, and volume. This course accelerates students through pre-algebra concepts in a rigorous curriculum. Students in this class are either identified as gifted learners in mathematics, creative thinkers, or teacher referred based on previous math performance.

0830 Pre-Algebra-8th Grade	Middle School	Fee
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The Pre-Algebra Curriculum is based on the eighth-grade standards and is designed to prepare students for Algebra 1. The standards contain both content that reviews and/or extends concepts and skills learned in previous grades and new content that prepares students for more abstract concepts in algebra. The students will learn the following concepts: simplifying algebraic expressions, solving and graphing equations and inequalities, solving problems involving ratios, proportions and probability. Students also receive a solid foundation in integers and rational numbers; review geometric concepts; apply math formulas to perimeter, area, surface area, and volume; and make predictions using data analysis and probability.

0832 Algebra I-8th Grade	1 credit
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This honors-level 8th grade math course explores math beyond traditional arithmetic. This course prepares students for the Ohio State Tests. Positive and negative numbers will be studied along with equations and inequalities. Students who take this class will also graph extensively. Further studies will include: multiplying polynomials, factoring polynomials, and simplifying algebraic expressions. Students will explore real-life applications. A scientific calculator is required. Students may purchase a TI-84 plus calculator in lieu of a scientific calculator as the TI-84 plus will be required in Algebra II. Successful completion of this middle school course will earn high school credit.

Prerequisite: teacher recommendation.

0210 Algebra I	1 credit
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Algebra I explores math beyond traditional arithmetic. This course prepares students for the Ohio State Tests. Positive and negative numbers will be studied along with equations and inequalities. Students who take this class will also graph extensively. Further studies will include: multiplying polynomials, factoring polynomials, and simplifying algebraic expressions. Students will explore real-life applications. A scientific calculator is required. Students may purchase a TI-84 plus calculator in lieu of a scientific calculator as the TI-84 plus will be required in Algebra II.

11019 Math Fundamentals	1 credit
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Course designed specifically as intervention for students who struggle in Pre-Algebra and Algebra I. Students will review concepts needed to pass the Ohio State Tests as well as learn the foundations needed for successful completion of Algebra II and Geometry. Concepts covered will be number sense; solving and graphing equations; defining geometric figures; various measurement techniques including area, surface area, and volume; and using data analysis and probability to make predictions. A scientific calculator is required. Students may purchase a TI-84 plus calculator in lieu of a

scientific calculator as the TI-84 plus will be required in Algebra II.

Prerequisite: recommendation of teacher.

0215 Geometry**1 credit**

This course will include theory and application of plane geometry and solid geometry. From the simplest figure studied in geometry (a point) to the more complicated solid figures, this class will challenge students to THINK. Topics covered will include points, lines, planes, angles, congruent triangles, similar polygons, circles, and much more. Algebraic skills are reviewed and strengthened throughout the course as they are used for solving problems in geometry. A scientific calculator is required. Students may purchase a TI-84 plus calculator in lieu of a scientific calculator as the TI-84 plus will be required in Algebra II.

0217 Honors Geometry**1 credit**

This college preparatory mathematics course will include a deep understanding of theory and application of plane geometry and solid geometry. From the simplest figure studied in geometry (a point) to the more complicated solid figures, this class will challenge students to THINK. Topics covered will include points, lines, planes, angles, congruent triangles, similar polygons, circles, and much more. Algebraic skills are reviewed and strengthened throughout the course as they are used for solving problems in geometry. This will be a more in-depth, higher-level thinking geometry class. This class will be taught at a faster pace and weighted. A scientific calculator is required. Students may purchase a TI-84 plus calculator in lieu of a scientific calculator as the TI-84 plus will be required in Algebra II. **Prerequisite: A B in Algebra I or teacher recommendation.**

0225 Algebra II**1 credit**

Algebra II provides an in-depth analysis of linear, quadratic, polynomial, radical, rational, logarithmic, exponential, and some trigonometric expressions, equations and inequalities. Some discrete concepts, such as matrices, sequences, series and probability will also be introduced and applied. Topics in statistics will be covered throughout the course. After completion of Algebra II, students will be prepared to take the college entrance tests such as the ACT and the SAT. **A graphing calculator TI 84 plus is required.**

0249 Probability and Statistics**1 credit**

In-depth study of probability, data analysis, and statistics including applying the concept of random variables to generate and interpret probability distributions, transforming data to aid in interpretation and prediction, and testing hypotheses using appropriate statistics. This class has less rigor than Pre-Calculus. **Prerequisite: senior status and recommendation by teacher.**

0230 Pre-Calculus/Intro to Calculus**1 credit**

This course is designed for the student who is proficient in mathematics and who desires a strong mathematics background for college. Successful completion of this course will give the student a good understanding of the mathematics to be encountered in his or her freshman year of college. Pre calculus topics such as trigonometry, analytic geometry, probability and statistics, and some calculus and computer language theory will be

discussed. **A graphing calculator TI 84 plus is required.** One will be provided, if the student does not purchase one, and a fee may be charged for its use.

Prerequisite: recommendation by teacher.

AP Statistics	One Credit	Fee
<p>The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes:</p> <ol style="list-style-type: none"> 1. Exploring Data: Describing patterns and departures from patterns 2. Sampling and Experimentation: Planning and conducting a study 3. Anticipating Patterns: Exploring random phenomena using probability and simulation 4. Statistical Inference: Estimating population parameters and testing hypotheses <p>Students who successfully complete the course and exam may receive credit, advanced placement or both for a one-semester introductory college statistics course. A graphing calculator TI 84 plus is required. One will be provided if the student does not purchase one, and a fee may be charged for its use. Students may benefit from a course in AP Statistics if they intend to major in the following career fields: criminal justice, education, economics, foods/nutrition, insurance, management, psychology, physician's assistant, nursing, social work, public administration, or exercise science. The Advanced Placement Examination of the College Board will be required; colleges and universities establish their own policies for accounting the results of the Advanced Placement Test. Fee is for the AP test in May. Prerequisite: permission of instructor.</p>		

AP Calculus	One credit	Fee
<p>AP Calculus is primarily concerned with developing students' understanding of the concepts of calculus and providing experience with its methods and applications. The courses emphasize a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The connections among these representations also are important. Students may benefit from a course in AP Calculus if they intend to major in the field of mathematics or science including engineering, architecture, accounting, economics, or pre-medicine. The Advanced Placement Examination of the College Board will be required; colleges and universities establish their own policies for accounting the results of the Advanced Placement Test. Fee is for the AP test in May. Prerequisite: permission of instructor.</p>		

MUSIC - Instrumental

0880 Middle School Concert Band	Middle School
<p>Year-long course designed to provide middle school students with previous instrumental music experience the opportunity to continue the study of basic ensemble playing and instrumental technique. Attendance at performances is required. Prerequisite: Minimum one year ensemble playing experience/instrumental training or</p>	

permission from director.

0800	Marching/Concert Band	1 credit	Fee
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Year-long course designed to provide students with the opportunity to continue the study and performance of instrumental music. Marching band emphasizes being a concert band “in motion” and utilizes corps marching style and performance elements recognized by the Ohio Music Educators Association. Concert Band focuses on the musical elements of balance, blend, intonation, and technique through the use of traditional wind band literature and select orchestral transcriptions. Individual practice, sectionals, after-school rehearsals, and performances are required. Fee covers the cost of maintenance and dry-cleaning of the marching band uniform. **Prerequisite: Minimum two years ensemble playing experience or permission from director.**

0805	Jazz Band	½ credit
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Three quarter course designed to provide experienced instrumental music students with exposure to various styles, performance techniques, theory, and history of jazz and stage band music. Students perform in a small ensemble setting three times yearly. Ensemble needs include piano, guitar, bass guitar (or double bass), drum set, trumpet, trombone, alto saxophone, tenor saxophone, and baritone saxophone. Individual practice and after-school rehearsals are required. **Prerequisite: By director permission only. Offered to high school students and select middle school students.**

MUSIC - Vocal

0880	Mixed Choir	1 credit
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The Mixed Choir is a mixed ensemble of men and women singing three- and four-part choral literature. This performing organization is open to any high school student who is interested in gaining singing experience through small and large group work. Students will gain vocal strength, musicality, poise, and confidence through performance preparation and execution. Competitions and solo opportunities will be made available to all members of the group. Fundraising is required throughout the year. Performances are mandatory.

0885	Barbershop Choir	1 credit
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The Barbershop Choir is a mixed choir singing part choral literature with an emphasis on the Barbershop Style. This performing organization is open to any high school student interested in gaining singing experience through small and large group work. Students will gain vocal strength, musicality, poise and confidence through performance preparation and execution. Competitions and solo opportunities will be made available to all members of the group. Fundraising is required throughout the year. Performances are mandatory.

After Hours	¼ to ½ credit
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This course is a mixed ensemble of men and women singing multiple-part harmonies without instrumental accompaniment. Students will gain vocal strength, musicality,

poise, microphone etiquette and technique, use of sound equipment, and confidence through performance preparation and execution. Competitions and solo opportunities will be available. This class requires extracurricular time outside of the school day/year.

Prerequisite: permission of instructor.

XXX Drama Class	1/2 credit
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Drama is open to any high school student interested in gaining experience in solo, small group and large group acting skills. Students will gain acting independence, poise and confidence through performance preparation and execution. Students will also learn the backstage mechanics of the theatre, including set design, props, costume, make-up, lighting and sound.

XXX Music Tech	1/2 credit
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Music Tech is open to any high school student interested in the aspects of sound and music theory. Students will learn basic piano skills and music theory in order to effectively create their own compositions. Students will also learn how to sequence their own works, record and manipulate music.

SCIENCE

0740 Science 7	Middle School	Fee
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Science 7 is an integrated science course that encompasses Earth and Space Science (ESS) including Earth's hydrologic cycle, patterns that exist in atmospheric and oceanic currents, the relationship between thermal energy and the currents, and the relative position and movement of the Earth, sun and moon. Physical Science (PS) includes Conservation of Mass and Energy focusing on the empirical evidence for the arrangements of atoms on the Periodic Table of Elements, conservation of mass and energy, transformation and transfer of energy. Life Science (LS) focuses on the impact of matter and energy transfer within the biotic component of ecosystems. In each unit we will incorporate the scientific method, the scientific way of knowing, and technology. Inquiry-based laboratory experiments are an integral part of this science curriculum.

0840 Science 8	Middle School	Fee
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Science 8 is an integrated science course that covers Earth and Space Science (ESS) including the physical features of Earth and how they formed. Physical Science (PS) encompasses Forces and Motion, particularly the forces and motion within, on and around the Earth and within the universe. Life Science (LS) covers Species and Reproduction; specifically, continuation of the species. Inquiry-based laboratory experiments are an integral part of this science curriculum.

0330 Physical Science	1 credit	Fee
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Physical science is a freshmen-level course which satisfies the graduation requirements of ORC § 3313.603. This section of Ohio law requires a three-unit course with inquiry-based laboratory experience that engages students in asking valid scientific questions and

gathering and analyzing information. Physical science comprises the systematic study of the physical world as it relates to fundamental concepts about matter, energy, and motion. A unified understanding of phenomena in physical, living, Earth, and space systems is the culmination of all previously learned concepts related to chemistry, physics, and Earth and space science, along with historical perspectives and mathematical reasoning.

0305 Biology

1 credit

Fee

Biology is a sophomore-level course which satisfies the graduation requirements of ORC § 3313.603. This section of Ohio law requires a three-unit course with inquiry-based laboratory experience that engages students in asking valid scientific questions and gathering and analyzing information. This course investigates the composition, diversity, complexity, and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment, and the interactions within and between them. Students engage in investigations to understand and explain the behavior of living things in a variety of scenarios that incorporate scientific reasoning, analysis, communication skills, and real-world applications.

College Biology

Dual Credit – North Central State College

BIOL 1050 - Principles of Biology 3 Credits; 2 Lecture Hours; 2 Lab

Hours This course is designed as an introduction to biology for non-majors. The course will provide the fundamentals of biology for students as an introduction to further college biology courses. The course will introduce students to the diversity, structure, and interdependence of living organisms with one another and the environment. Students will meet two lecture hours and two lab hours per week. *Required Concurrent Course(s): Take BIOL-1050!* [Availability](#) | [Similar](#) | [Syllabus](#)

BIOL 1070 - Lifetime Wellness 3 Credits; 3 Lecture Hours This course examines the application of the components that contribute to the concepts of total body wellness, physical fitness, cardiovascular disease, cancer, disease prevention, addictive behaviors, and sexually transmitted infections. The course provides a comprehensive review of variables that affect our health and explores topics faced daily from fad diets to environmental health to relationships. The student will have an understanding of processes that move toward optimal health and vitality. The course emphasizes individual responsibility for well-being through the practice of self-assessment of the cardio-respiratory system, weight control, physical fitness, personal stress, and the adoption of health-promotion of lifestyle behaviors. [Availability](#) | [Similar](#) | [Syllabus](#)

BIOL 1101 - Nutrition 2 Credits; 2 Lecture Hours BIOL 1101 is an introductory course to the principles of nutrition and its relationship to health. Included are practical applications in daily life as well as nutritional assessments of individuals. Emphasis is on essential nutrients, their supply and function, as related to an individual's well-being. Health promotion and chronic disease are explored in relation to today's society. (TAG# OHL016) [Availability](#) | [Similar](#) | [Syllabus](#)

BIOL 1230 - Biology I 4 Credits; 3 Lecture Hours; 3 Lab Hours This course is an introduction to biology for bioscience majors and students planning to

transfer to four year institutions. The course will introduce fundamental concepts of biology including the scientific method, structure and chemical properties of cells. The course will introduce students to biochemical pathways, bioenergetics, and basic concepts of genetics, heredity and homeostasis. Historical contributions and application of biological principles to biotechnology will be discussed. Students will meet three lecture hours and three lab hours per week. *Required Prerequisite(s):* Compass reading score of 80 & writing of 81; or successful completion of READ0080 & WRIT0090. MATH0074 minimum grade of C required or Compass score of 61 or higher & an Algebra score 31 or higher. [Availability](#) | [Similar](#) | [Syllabus](#)

BIOL 1231 - Biology II 4 Credits; 3 Lecture Hours; 3 Lab Hours; 2 Lab Hours This course is continuation of BIOL 1230 Biology I. The course will introduce fundamental concepts of biology including evolution, classification, ecosystems, similarities and differences, among plants, animals and microorganisms in form and function. Historical contributions and application of biological principles to biotechnology will be discussed. Students will meet three lecture hours and three lab hours per week. *Required Prerequisite(s):* Take BIOL-1230 [Availability](#) | [Similar](#) | [Syllabus](#)

College Anatomy and Physiology Dual Credit – North Central State College

BIOL 1710 - Introduction to Anatomy and Physiology 3 Credits; 2 Lecture Hours; 2 Lab Hours; 2 Lab Hours This course is an introductory study of life processes and biological principles. Special reference to the human organism is used in describing the nature of life-sustaining functions. Cellular function and the structure and function of the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems are introduced. Laboratory experiences are designed to supplement the lecture topics and include microscopy, the study of models, specimen dissection, cadaver study and physiological experiments. (OTM approved course in Natural Sciences TMNS) [Availability](#) | [Similar](#) | [Syllabus](#)

BIOL 1730 - Basic Anatomy and Physiology 4 Credits; 3 Lecture Hours; 3 Lab Hours This course presents the basic terms and concepts that deal with the structure and processes of the human body. It involves examination of the body as a whole, the cell, and tissues. The basic structure and physiology of the integumentary, skeletal, muscular, nervous, cardiovascular, lymphatic, respiratory, digestive, urinary, reproductive, and endocrine systems are presented. Laboratory exercises enhance and support the lecture topics and include microscopy, the study of models, specimen dissection, cadaver study, and physiological experiments. *Required Prerequisite(s):* Successful completion of all required remedial coursework in reading (READ0080 or minimum COMPASS Reading score of 80), writing (WRIT0090 or a minimum ACT English sub-score of 18 or minimum COMPASS Writing score of 69 and a minimum eWrite score of 6). *Required Concurrent Course(s):* Take BIOL-1730 [Availability](#) | [Similar](#) | [Syllabus](#)

BIOL 2751 - Human Anatomy and Physiology I 4 Credits; 3 Lecture Hours; 3 Lab Hours This course is an in-depth study of the principles of human anatomy and physiology. It includes the study of structure and function of the body as a whole and study of cell biology, histology, the integumentary, skeletal, muscular,

endocrine, and nervous systems plus the special senses. Laboratory exercises are designed to supplement lecture topics and include microscopy, the study of models, cat and specimen dissection, cadaver study, and physiological experiments. (OTM approved course in Natural Sciences TMNS)*Required Prerequisite(s): High school chemistry with minimum C minus (C-) grade or CHEM1010 with minimum C minus (C-) grade; and successful completion of all required remedial coursework in reading (READ0080 or minimum COMPASS Reading score of 80), writing (WRIT0090 or a minimum ACT English sub-score of 18 or minimum COMPASS Writing score of 69 and a minimum eWrite score of 6), and math (MATH0074 or a minimum ACT Math sub-score of 21 or minimum COMPASS Algebra score of 31) If the student has completed BIO121 and BIO122 OR BIOL1730 with a minimum C grade then the student is not required to have high school Chemistry or CHEM 1010.**Required Concurrent Course(s): Take BIOL-2751L*[Availability](#) | [Similar](#) | [Syllabus](#)

BIOL 2752 - Anatomy and Physiology II 4 Credits; 3 Lecture Hours; 3 Lab

Hours This course is a continuation of BIOL 2751. It includes the study of structure and function of blood and the cardiovascular, lymphatic/immunity, digestive, respiratory, urinary, and reproductive systems. Laboratory exercises are designed to supplement lecture topics and include microscopy, the study of models, cat and specimen dissection, cadaver study, and physiological experiments. (OTM approved course in Natural Sciences TMNS)*Required Prerequisite(s): Take BIOL-2751; Minimum Grade C-Required Concurrent Course(s): Take BIOL-2752L*[Availability](#) | [Similar](#) | [Syllabus](#)

AP Biology	1 credit	Fee
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AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes — energy and communication, genetics, information transfer, ecology, and interactions. The Advanced Placement Examination of the College Board will be required; colleges and universities establish their own policies for accounting the results of the Advanced Placement Test. Fee is for the AP test in May. **Prerequisites: instructor approval.**

0320 Chemistry	1 credit	Fee
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Chemistry is a high-school level course which satisfies the Ohio Core science graduation requirements of ORC § 3313.603. This section of Ohio law requires a three-unit course with inquiry-based laboratory experience that engages students in asking valid scientific questions and gathering and analyzing information. This course introduces students to key concepts and theories that provide a foundation for further study in other sciences as well as advanced science disciplines. Chemistry comprises a systematic study of the predictive physical interactions of matter and subsequent events that occur in the natural world. The study of matter through the exploration of classification, its structure, and its interactions is how this course is organized. Investigations are used to understand and explain the behavior of matter in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills, and real-world applications. An understanding of leading theories and how they have informed current

knowledge prepares students with higher order cognitive capabilities of evaluation, predication, and application.

Prerequisites: Algebra I and Biology.

132230	Environmental Science	1 credit	Fee
<p>Environmental science is a high school level course, which satisfies the graduation requirements of Ohio Revised Code Section 3313.603. Environmental science incorporates biology, chemistry, physics and physical geology and introduces students to key concepts, principles and theories within environmental science. Investigations are used to understand and explain the behavior of nature in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. Activities will include engaging in collaborative and individual learning, participating in video chat sessions with an expert within each study, examining the current state of events in each subject, and being able to discuss and show students' understanding of selected topics through various medium. Outside speakers and field trips will also enhance the student's understanding and provide application to real-world situations. This course will be technology dependent both in and out of school situations. Arrangements will be made for those who do not have regular access to technology and this need should be communicated directly to the instructor. Year-long course offered during alternating years opposite Astronomy/Meteorology and Geology/Oceanography. Prerequisite: biology and physical science.</p>			

XXX Astronomy/Metereology	1/2 credit	Fee
<p>High school level courses satisfying the graduation requirements of ORC 3313.603 which requires 3 unit course with inquiry based laboratory experience that engages students in asking valid scientific questions and gathering and analyzing information. This course offering is designed for students to gain insight into Earth Sciences (Astronomy and Meterology) while practicing 21st Century Skills with introductory level information for Astronomy and Meteorology courses offered at the university/college level. Because of time constraints and the enormity of the subject, areas of the content will be introduced with limited depth. The emphasis of this class while introducing the topics within the content will be current events and the impact on local to global levels. Students will gain insight into the study of astronomy and meteorology and have a basic understanding of the mechanisms that govern space and events as well as an understanding of the forces that drive the Earth's weather and climate. Students will develop a basic understanding of space and weather systems, evaluate control research and how technology has enhanced our understanding within each subject, be able to discuss the current and future plans of space travel and weather predictions, and describe the impacts of life here on Earth as a result of both astronomical and meteorological events. Activities will include engaging in collaborative and individual learning, participating in video chat sessions with an expert within each study, examining the current state of events in each subject, and being able to discuss and show students' understanding of selected topics through various medium. Outside speakers and field trips will also enhance the student's understanding and provide application to real world situations. This course will be technology dependent both in and out of school situations. Arrangements will be made</p>		

for those who do not have regular access to technology and this need should be communicated directly to the instructor. **First semester. Offered every other year – with Geology/Oceanography – opposite Environmental Science. Prerequisites: physical science and biology.**

XXX Geology/Oceanography	½ credit	Fee
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High school level courses satisfying the graduation requirements of ORC 3313.603 which requires 3 unit course with inquiry based laboratory experience that engages students in asking valid scientific questions and gathering and analyzing information. This course offering is designed for students to gain insight into Earth Sciences (Geology and Oceanography) while practicing 21st Century Skills with introductory level information for Geology and Oceanography courses offered at the university/college level. Because of time constraints and the enormity of the subject, areas of the content will be introduced with limited depth. The emphasis of this class while introducing the topics within the content will be current events and the impact on local to global levels. Students will gain insight into the study of geology and oceanography and have a basic understanding of the mechanisms that govern Earth's geological as well as understanding the forces and makeup of the world's oceans. Students will develop a basic understanding of mineral and rock classification, Earth's history, plate tectonics, Earth's resources, map interpretation skills, and both deformation and land building processes and describe the impacts of life here on Earth as a result of both geological and oceanic events. Activities will include engaging in collaborative and individual learning, participating in video chat sessions with an expert within each study, examining the current state of events in each subject, and being able to discuss and show students' understanding of selected topics through various medium. Outside speakers and field trips will also enhance the student's understanding and provide application to real world situations. This course will be technology dependent both in and out of school situations. Arrangements will be made for those who do not have regular access to technology and this need should be communicated directly to the instructor. **Second semester. Offered every other year – with Astronomy/Metereology – opposite Environmental Science. Prerequisites: physical science and biology.**

AP Environment Science	1 credit	Fee
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The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental Science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. The Advanced Placement Examination of the College Board will be required; colleges and universities establish their own policies for accounting the results of the Advanced Placement Test. Fee is for the AP test in May. **Prerequisites: instructor approval.**

0315 Anatomy and Physiology	1 credit	Fee
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This course advances the understanding of the human body and all of its systems. This study will be from a molecular, cellular, genetic approach. A study of how the body is organized, its protection, support, and movement, as well as its control, communication, and coordination will be addressed. Topics will include cells, metabolism, DNA, tissues, nervous system, endocrine system, reproduction, etc.

0325 Physics	1 credit	Fee
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Physics is a high-school level course which satisfies the graduation requirements of ORC § 3313.603. This section of Ohio law requires a three-unit course with inquiry-based laboratory experience that engages students in asking valid scientific questions and gathering and analyzing information. Physics elaborates on the study of the key concepts of motion, forces, and energy as they relate to increasingly complex systems and applications that will provide a foundation for further study in science and scientific literacy. Students engage in investigations to understand and explain motion, forces, and energy in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills, and real-world applications.

Prerequisite: Algebra I and II and Geometry.

SOCIAL STUDIES

0720 Social Studies 7	Middle School
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This course covers world history between 750 B.C. and 1600 A.D.: Ancient Greece to the First Global Age. Topics include historical thinking, early civilizations, feudalism and transitions, the first global age, spatial thinking (relationships among people, places, and environments), human systems, civic participation and skills, roles and systems of governments, economic decision making and skills, scarcity, and markets.

0820 Social Studies 8	Middle School
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This course covers American history between 1492 and 1877: Exploration through Reconstruction. Topics include historical thinking and skills, colonization to independence, a new nation, expansion, Civil War and Reconstruction, geography, human systems, civic participation and skills, roles and systems of government, economic decision making and skills, production and consumption, markets, and financial literacy.

0615 American History	1 credit
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This course examines the history of the United States of America from 1877 to the present. The federal republic has withstood challenges to its national security and expanded the rights and roles of its citizens. The episodes of its past have shaped the nature of the country today and prepared it to attend to the challenges of tomorrow. Understanding how these events came to pass and their meaning for today's citizens is the purpose of this course. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions. Topics include industrialization and progressivism, foreign affairs from Imperialism to post-WWI, prosperity, Depression, the New Deal, from Isolation to WWII, the Cold War, social transformations

in the United States, the post-Cold War world.

0600 Modern World History**1 credit**

This course examines world events from 1600 to the present. It explores the impact of the democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that led to independence movements and the effects of global interdependence. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions. Topics include Age of Enlightenment, Age of Revolutions, Imperialism, achievements and crises, the Cold War, and Globalization.

0625 Sociology**½ credit**

Sociology involves the study of group behavior and human relationships. This course provides excellent preparation for college-bound students as it covers significant terms and concepts relating to cultural diversity and development, social institutions, interpersonal relationships, and social stratification; while at the same time providing an in-depth look into social issues which affect all of us. Candid discussions of crime, poverty, adolescent problems, and institutional racism are just a few of the topics covered in this course. It is an ideal opportunity for students to express their own ideas and develop their own opinions about the society in which they live and the world around them. **This is a college-preparatory class that covers topics that may be not be suitable for all students.**

0630 Psychology**½ credit**

Psychology is the science that deals with the behavior and thinking of organisms. The main emphasis is on human behavior and various items that stimulate individual thinking. Students will learn different methods for conducting psychological research and distinguish a variety of approaches associated with behaviorism, psychoanalysis, humanistic, and Gestalt psychology. Students will create several experiments and partake in the experiments of others and use interactive simulation software. Students will examine biological influences, environmental influence, social relationships, and the effect of drug and alcohol abuse on human behavior. **This is a college-preparatory class that covers topics that may be not be suitable for all students.**

0635 American Government ½ credit

How the American people govern themselves at national, state and local levels of government is the basis for this course. Topics include civic involvement, civic participation and skills, basic principles of the U. S. Constitution, structure and functions of the federal government, role of the people, Ohio's state and local governments, public policy, and government and the economy. This course will challenge students in facilitating a greater understanding of the American Governmental system. A main emphasis will be given to the development and rationale behind the United State's Constitution. This process will include discussions on federalism, checks and balances, and a separation of power. Students will realize that good government demands individual responsibilities so that our government

serves the needs of its people. □

0636 Economics and Financial Literacy ½ credit

This course explores the fundamentals that guide individuals and nations as they make choices about how to use limited resources to satisfy their wants. More specifically, it examines the ability of individuals to use knowledge and skills to manage limited financial resources effectively for a lifetime of financial security. Topics include economic decision making and skills(*calculating accrued interest*), fundamentals of economics, government and the economy, global economy, working and earning, financial responsibility (credit score components) and money management, saving and investing, credit and debt, and risk management. The objective of the course is to introduce students to basic economic principles they can apply to their every day lives. Concepts such as supply and demand, factors of production, specialization, economic interdependence, and the Federal Reserve will be thoroughly discussed. Students will be required to complete projects and papers both in and out of the classroom as well as “shop” for groceries, cars, and housing.

Advanced Placement Government and Politics 1 Credit Fee

In this college-level course, students will gain an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students will become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes. The Advanced Placement Examination of the College Board will be required; colleges and universities establish their own policies for accounting the results of the Advanced Placement Test. Fee is for the AP test in May. **Prerequisite: permission of instructor.**

SPANISH

Beginning Spanish Emerging to Novice Low Spanish 1 credit Fee

This class is for those who are truly beginning learners of the Spanish language, who enter with little to no prior experience with the language. This course will utilize the method of Comprehensible Input via TPRS (Total Proficiency through Reading and Storytelling). This method utilizes high frequency and popular vocabulary to invent, read and tell stories that are created by the class. The teacher will make it comprehensible to students via gestures and repetition. We will use the language in context in order to learn it. Culture and history will be taught via readings (in Spanish), songs and movie clips. Students will read a minimum of one beginner level novel in Spanish. Students and parents must be aware that attendance is paramount to a World Language Class. In accordance with state requirements, this class will use Spanish 90% of the time. Students will be required to demonstrate communicative tasks as established by the state in order to receive a passing grade.

Novice Low-Novice Intermediate (formerly Spanish 2): 1 credit

This class is for those students who can demonstrate proficiency in the state required tasks of the Emerging to Novice Low World Language Student and who want to increase their communicative abilities. The teaching method will be the same as the above Emerging to Novice Low class, but the vocabulary and cultural topics will be more advanced and more extensive. Class time will focus on acquiring the vocabulary. We will use Spanish 95% of the time in class. The teacher will make it comprehensible to students via gestures and repetition. Student data will drive story writing and creating. Students will be required to demonstrate achievement of state mandated communicative tasks in order to move toward the next level. Students at this level will read a minimum of two (2) level appropriate novels in Spanish. Students and parents must be aware that attendance is paramount to a World Language Class.

Novice High to Intermediate (formerly Spanish 3): 1 credit

In continuation from the above two classes, this class will be taught using the Comprehensible Input Method founded on the work of Blaine Ray and James Asher, two World Language Specialists. Vocabulary will be acquired via in class stories, music, videos and authentic resources. 95% of this class will be in Spanish. The teacher will make it comprehensible to students via gestures and repetition. Students will be required to read novels both independently and as a class. Students and parents must be aware that attendance is paramount to a World Language Class. Students will be required to read novels outside of class time independently.

AP Spanish Language and Culture One Credit Fee

The AP Spanish Language and Culture course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP Spanish Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The AP Spanish Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). The Advanced Placement Examination of the College Board will be required; colleges and universities establish their own policies for accounting the results of the Advanced Placement Test. Fee is for the AP test in May. **Prerequisite: permission of instructor.**

SPECIAL EDUCATION

Sarah Callahan	scallahan@western-reserve.org
Lisa Muenz	lmuenz@western-reserve.org
Jennifer Nolan	jnolan@western-reserve.org
Shane Pierson	spierson@western-reserve.org

3300 Study SKILLS 1/4 credit

Students assigned to Study Skills will spend the class period in a small group setting supervised by a teacher. The focus is to reinforce and/or re-teach academic skills, including those addressed in a student's Individualized Education Plan, if applicable, with an emphasis on the student becoming a successful independent learner. A 1/4 credit may be earned each year by a student who exhibits a documented effort to achieve his or her IEP goals and objectives.

STAFF ASSIGNED STUDENT OPTIONS

0450 High School Library Aide

0451 High School Library Aide

0455 High School Office Aide

0456 High School Office Aide

Directions for the student: Complete sections I and II. Return to your current Language Arts teacher.

I. Student Information

_____ Name	_____ Course Applying For
_____ Current Language Arts Class	_____ Current Language Arts Teacher

II. Student Input: Why do you wish to be a member of this class?

Your paragraph response to this prompt should display Honors quality writing skills. Include evidence of the abilities and skills you possess that will make you successful in this course. Attach your response to this application. It should be typed or neatly written in blue or black ink.

III. Writing Prompt: Given at a later date to assess your reading, thinking, and writing ability.

IV. State Test Scores	<u>Score</u>	<u>Basic, Proficient, Accelerated, or Advanced</u>
Grade 6 ELA	_____	_____
Grade 7 ELA	_____	_____
Grade 8 ELA	_____	_____
Grade 9 ELA	_____	_____

V. Identified Gifted

_____ Yes:	Reading	Writing	Superior Cognitive
_____ No			

VI. Teacher Recommendation (Completed by current Language Arts teacher.)

Student _____

Teacher _____

Class _____

Grades: Q1 _____ Q2 _____ Q3 _____

Student Assessment: Please Rate Student's Personal Qualities

0 = Lacking 5 = Excellent

0 1 2 3 4 5 Desire to learn

0 1 2 3 4 5 Desire to be challenged

0 1 2 3 4 5 Ability to make connections

0 1 2 3 4 5 Ability to extract figurative meaning

0 1 2 3 4 5 Ability to express and support thoughtful ideas verbally

0 1 2 3 4 5 Ability to express and support thoughtful ideas in writing

0 1 2 3 4 5 Ability to accept constructive criticism

0 1 2 3 4 5 Initiative to seek help when struggling

0 1 2 3 4 5 Other _____

0 1 2 3 4 5 Other _____

Current Language Arts Teacher Recommendation:

Comments/Explanation

_____ Yes _____

_____ No _____

_____ Conditional _____

VII. Honors Status _____ Approved _____ Denied

VIII. Appeals Process: The appeals process will require the critical reading of and written response to a reading passage. Final determination of appeal by a panel vote of three teachers.

_____ Yes, student wishes to appeal.

_____ No, student will not appeal.

Appendix B

Western Reserve College Credit Plus-BGSU General Education CCP Pathway

9 th . GRADE	H S C R E D	10 th . GRADE	H S C R E D	11 th . GRADE	H S C R E D	12 th . GRADE	H S C R E D
Honors or English 9	1	Honors or English 10	1	BGSU GSW 1110- Intro To Academic Writing (3) *F BGSU ENG 1500- Response To Literature(3)*S AP English	2	GSU GSW 1120-Academic Writing (3) *F BGSU ENG 2010- Introduction to Literature (3) *S AP English	2
Algebra I or Geometry	1	Algebra II, Geometry	1	Algebra II, Pre-Calc- AP Stats- Prob/Stats	1	BGSU MATH 1150- Statistics (3) *F or *S AP Stats/Prob Stats/Pre-Calc	1
Biology	1	Physical Science, Chemistry BGSU CHEM 1000- Introduction to Chemistry (3) *S	1	AP Biology/AP Chemistry, Environmental Science, Anatomy & Physiology @ WR	1	AP Physics OR Physics BGSU ASTR 2010- Modern Astronomy (3) *S	1
Spanish 1	1	Spanish 1, 2	1	Spanish 1, 2, 3 --Only Two Years Are Required For College Admission in Ohio-Public Univ)	1	Spanish 1, 2, 3, 4 AP Spanish BGSU SPAN 2010- Intermediate Spanish I (3) *F BGSU SPAN 2020- Intermediate Spanish II (3) *S	1
World History	1	American History BGSU HIST 2050- Early America (3) *F BGSU HIST 2060- Modern America (3) *S	2	Gov/Econ BGSU POLS 1100- American Government: Processes and Structure (3) *F BGSU ECON 2000- Introduction to Economics (3) *S--	2	AP Gov/Psych/Soc BGSU SOC 1010- Principles of Sociology (3) *F BGSU PSYC 1010-General Psychology (4) *S	2
Electives: Health/PE BGSU ART 1010- Introduction To Art(3) *F Other BGSU Humanities in Theater, Music, or a public-speaking course COMM 1020 (3)	1	See WR Course Registration Book Elective: Health/PE BGSU UNIV 1290- Career Planning (1) *S	2 5	See WR Course Registration Book BGSU FN 2070- Intro to Human Nutrition (3) *F	1	See WR Course Registration Book BGSU ETHN 1010-Intro to Ethnic Studies (3) *F or *SP	1

<p>General Education Academy University Admissions Requirements:</p> <ol style="list-style-type: none"> 1. Completed application (available on BGSU Firelands website: www.firelands.bgsu.edu (Go to Programs/Offerings-College Access) 2. High School Counselor form that indicates a parent and student have attended the high school College Credit Plus meeting 3. Copy of most recent transcripts to verify overall grades <p>Total amount of credit hours or hours listed in (parentheses) above=59 if student begins taking courses offered in the 9th grade. Total number of credit hours needed for BGSU Firelands Associate of Arts or Science degree = 62</p>	<p>All students will take the COMPASS Placement Tests in Mathematics, Reading and Writing before they begin the program. All students must score college-ready in Reading at a minimum going into the 9th grade year. ACT tests results can be used within a year of when the test was taken. Retesting will be done if student doesn't initially place college-ready in English or Math before taking those courses in the 11th and 12th grade year.</p> <p>* F OR S- Denotes when course is offered on the Firelands Campus or Web-based, either in Fall or Spring. The number listed in parentheses is the amount of BGSU college credits the student will earn on a BGSU college transcript.</p>
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