

Shady Spring High School

Course Catalog 2020 - 2021

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Note: The list of courses is subject to change based upon student course selections and number of students interested. For more detailed descriptions and information, please check with the school's guidance office.

The Career and Technical Education (CTE) classes give high school students the chance to get a head start on preparing for college and careers. The programs of study listed in this catalog are offered on our campus and offer the opportunity to earn nationally recognized certifications which one can use to get a job that will help pay for college or start off a career straight out of high school. In compliance with WV State Board of Education's simulated workplace classroom requirements, students who are taking the third and/or fourth class in a program of study for certification is subject to random drug testing.

Business

Career and Technical Education (CTE) Program of Study: BM1410 Accounting and Finance

Four Courses: 1401 Accounting Principles I
1403 Accounting Principles II
1451 Personal Finance
plus one Accounting and Finance Specialization from below:
1411 Business Computer Applications I Microsoft IT Word-PowerPoint
1413 Business Computer Applications II Microsoft IT Excel and Access
1417 Business Law
1439 Business and Marketing Essentials

Program of Study Description: The Accounting Program of Study focuses on careers that record, classify, summarize, analyze and communicate a business's financial information/business transactions for use in management decision making. Accounting includes such activities as bookkeeping, systems design, analysis and interpretation of accounting information.

CTE Program of Study: BM1465 Management and Administrative Support

Four Courses: 1411 Business Computer Applications I Microsoft IT Word-PowerPoint
1439 Business and Marketing Essentials
plus TWO Accounting and Finance Specialization from below:
1401 Accounting Principles I
1413 Business Computer Applications II Microsoft IT Excel and Access
1451 Personal Finance

Program of Study Description: The Administrative Support Program of Study focuses on careers that facilitate business operations through a variety of administrative and clerical duties including information and communication management, data processing and collection and project tracking.

CTE Program of Study: IT1450 Information Management/ Microsoft Computer Applications Specialist

Four Courses: 1411 Business Computer Applications I Microsoft IT Word-PowerPoint
1413 Business Computer Applications II Microsoft IT Excel and Access
plus TWO Information Management Specialization from below:
1431 Digital Imaging/Multimedia I
1432 Digital Imaging/Multimedia II
1455 Web Page Publishing

Program of Study Description: The Information Management Program of Study focuses on careers that produce images through hands-on activities and experiences which will include: operating a digital camera, using imaging software, using drawing software, creating simple animations and manipulating video images. Students will incorporate journalistic principles in design and layout of print and Web publications including integration of text and graphics and use of sophisticated hardware and software to develop and create quality materials for business-related tasks.

1401 Accounting Principles I – Prerequisite: None. Credit: One Unit. Grade Level: 10-12. One Semester

This area of study is designed to provide a learner with the opportunity to understand and apply integrated software to business applications. The students will achieve advanced proficiency in word processing and spreadsheets. Students have the opportunity to earn their MOS certifications for free in Microsoft Word and Excel in this course.

1403 Accounting Principles II – Prerequisite: Accounting Principles I. Credit: One Unit. Grade Level: 10-12. One Semester

This area of study is designed to provide a learner with the opportunity to understand and apply integrated software to business applications. The students will achieve advanced proficiency in presentation graphics and database management software. Students have the opportunity to earn their MOS certifications for free in Microsoft PowerPoint and Access in this course

1411 Business Computer Applications I – Prerequisite: None. Credit: One Unit. Grade Level: 9-12. One Semester

This course provides students the opportunity to master proficiency in Microsoft Word and PowerPoint. The students will be given the opportunity to earn their Microsoft Office Specialist (MOS) certifications in both programs during this course.

1413 Business Computer Applications II – Prerequisite: Business Computer Applications I. Credit: One Unit. Grade 10-12. One Semester

This course provides students the opportunity to master proficiency in Microsoft Excel and Access (database management software). The students will be given the opportunity to earn their Microsoft Office Specialist (MOS) certifications in both programs during this course

1451 Personal Finance – Prerequisites: Accounting Principles I. Credit: One Unit. Grade Level: 10 – 12. One Semester

Students will explore the interrelated roles of job seeker, wage earner and employee and analyze and interpret decisions that contribute to financial stability and personal satisfaction. Students will explore credit and plans for using credit in terms of present and future needs and income. Students will describe common economic problems and consumer responsibility in the marketplace

1431 Digital Imaging/Multimedia I – Prerequisite: None. Credit: One Unit. Grade Level: 10-12. One Semester

This course teaches students how to use the Adobe Creative Suite including Photoshop. Students will learn to enhance digital photography by using photo editing tools in order to produce professional quality digital photographs.

1432 Digital Imaging/Multimedia II – Prerequisite: Digital Imaging/Multimedia I. Credit: One Unit. Grade Level 10-12. One Semester

This course teaches students how to use the Adobe Creative Suite including Photoshop. Students will learn advanced features of working with graphics and editing digital photographs.

0422 Marketing Principles

This course is designed to develop student understanding and skills in such areas as channel management, marketing-information management, market planning, pricing, product/service management, promotion and selling. Through the use of projects, students acquire an understanding and appreciation of marketing activities. Current technology will be used to acquire information and to complete the projects. Formal reflection is an on-going component of the course. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, DECA. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools and skill sets.

0425 Marketing Applications

This course is designed to develop student understanding and skills in such areas as the various marketing functions. Students coordinate channel management with other marketing activities, discuss the nature of marketing plans, generate product ideas, coordinate activities in the promotional mix and demonstrate specialized sales processes and techniques. Economic and financial concepts are also stressed throughout the course. Current technology will be used to acquire information and to complete the projects. Formal reflection is an on-going component of the course along with four projects. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, DECA. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools and skill sets.

1439 Business and Marketing Essentials – Prerequisite: None. Credit: One Unit. Grade Level: 9-12. One Semester

This course is an introductory course that covers marketing and a broad overview of economics. Other topics covered are investments (stock market), management, entrepreneurship, banking, credit, budgeting and insurance.

1455 Web Page Publishing – Prerequisite: None. Credit: One Unit. Grade Level: 10-12. One Semester

This course teaches web page development software utilizing the Adobe Creative Suite Dreamweaver software. Students will focus on creating page layouts, adding images and frames, and publishing to the Internet.

English/Language Arts

English 9, 10, 11, 12 – Prerequisite: Previous grade-level English class. Credit: One Unit. Full Year.

The purpose of these grade-level courses is to teach students basic English and literature skills. Grammar, literature, listening, speaking, and technology skills are covered to prepare students for either college or the workplace.

Self – contained English classes are available.

Honors English 9 and 10 – Recommended Prerequisites: Previous Honors English course, 90 percent or above on the language or reading sector of the standardized achievement test, or Teacher Recommendation. Credit: One Unit. Full Year

These are advanced level courses designed to help prepare students to continue advanced-level studies in English language in their junior or senior years. It is an accelerated course that involves extensive reading and writing using higher level thinking skills and critical analysis. The course also features intense preparation and practice for the statewide writing assessment and Advanced Placement exams students may wish to take as juniors and seniors.

AP English Language – Recommended prerequisites: 10th grade Honors English or Teacher Recommendation. Credit: One Unit. Grade Level: 11. Full Year

This is a college-level course designed to give students the opportunity to earn college credit and prepare students for the Advanced Placement English Language and Composition Exam. The course focuses on the analysis of language as used in various rhetorical modes and literature. Students who earn a 3, 4, or 5 on the AP exam can earn college credit.

AP English Literature – Recommended prerequisites: 11th grade AP English or Teacher Recommendation. Credit: One Unit. Grade Level: 12. Full Year

This is a college-level course designed to give students the opportunity to earn college credit and prepare students for the Advanced Placement English Literature and Composition Exam. The course focuses on the analysis of English and World Literature classics. Students who earn a 3, 4, or 5 on the AP exam can earn college credit.

Transitional English 12 – Recommended prerequisite: 11th grade English and students who score a 16 – 20 on ACT. Credit: One Unit

Transitional English is a rigorous course designed to increase the number of students who are college and/or career ready upon graduation from high school. Student placement in the course must be based upon the criteria set forth in the placement guidance document provided to counselors and administrators. This course serves as an English 12 credit and deems students eligible for graduation and the Promise scholarship. English 12 TR is not a remedial English course. Upon completion of the course, students will take the state mandated assessment to determine if they have attained the college and career benchmark score.

Literature – Credit: One Unit. Grade Level: 9 – 12. One Semester

Literature courses offer the opportunity for students to study and reflect upon the themes presented in the body or literature being presented. Students improve their critical thinking skills as they determine the underlying assumptions and values within the reading selection and as they understand how the work reflects society's problems and culture. Oral discussion is an integral part of literature courses and written compositions are sometimes required, often with an emphasis toward college preparation. Literature courses may survey representative works, reflect a particular genre or a specific theme, or survey works of a particular time or people. Written assignments, quizzes, tests and oral presentations are expectations of this course.

Public Speaking – Credit: One Unit. Grade Level: 9 – 12. One Semester

Students in this course explore the basics of effective personal and workplace communication. They will learn the art of nonverbal, group and public communication and conflict resolution.

Creative Writing – Credit: One Unit. Grade Level: 9-12. One Semester

This course emphasizes prose and poetic forms of writing that express the writer's thoughts and feelings. Metaphorical language and relational thought are evident in the writing. Writings are based more on fiction than factual and logical progression of ideas.

ACT Prep Test Strategies– Credit: One Unit. Grade Level: 10-12. One Semester

This course focuses on the most important skills for success on standardized tests, including the ACT and the SAT, specifically general reading comprehension and math skills, reading rate, vocabulary, and test taking strategies. The course can benefit students taking a test for the first time or students looking to improve on a previous score.

Theater I/II – Credit: One Unit. Grade Level: 9 – 12. One Semester

In this class, students will create scripts, dramatize small scenes, design and produce small plays, and may direct a project. Students will compare theatre to other art forms by analyzing, critiquing, and integrating concepts.

Yearbook I/II – Credit: One Unit. Grade Level: 11 – 12. Prerequisites: Teacher recommendation.

The yearbook course allows students to apply skills in teamwork, planning and production, writing and editing, photography, typography, page design, graphics, advertising campaigns, and yearbook finance and distribution to the production of the school yearbook, *The Spring*. The course is open to 11th and 12th graders who have demonstrated skills in the above areas and are recommended for the course by their Language Arts teacher.

Foreign Language

Spanish I – Recommended prerequisite: At least an 80% in English. Credit: One Unit (optional dual credit from Concord University) Grade Level: 9- 12. One Semester

In Spanish I, the learner acquires the necessary skills to achieve basic competence in comprehension, speaking, reading, and writing. Introductory levels of cultural material are provided as well as relevant current events. While traditional methods are used, the grammar/conversational method will predominate.

Spanish II – Prerequisite: Spanish I with a 75% average or teacher recommendation. Credit: One Unit (optional dual credit from Concord University) Grade Level: 9- 12. One Semester

Spanish II is a continuation of the development of the four basic skills: comprehension, speaking, reading, and writing. This course will emphasize grammar structure. A student project will also be required.

Spanish III – Prerequisite: Spanish II with a 75% average or teacher recommendation. Credit: One Unit. (Optional dual credit from Concord University). Grade Level: 10 - 12. One Semester

Spanish III is a continuation of the development of the four basic skills: comprehension, speaking, reading, and writing.

Spanish IV – Prerequisite: Spanish III with a 75% average or teacher recommendation. Credit: One Unit. Grade Level 10 – 12. One Semester

French I – Prerequisite: None. Credit: One Unit. Grade Level 9-12 One Semester.

In French I, the learner acquires the necessary skills to achieve basic competence in comprehension, speaking, reading, and writing. Introductory levels of cultural material are provided as well as relevant current events. While traditional methods are used, the grammar/conversational method will predominate.

French II – Prerequisite: French I. Credit: One Unit. Grade Level 9-12 One Semester.

French II is a continuation of the development of the four basic skills: comprehension, speaking, reading, and writing. This course will emphasize grammar structure. A student project will also be required.

French III – Prerequisite: French II. Credit: One Unit. Grade Level 10 -12 One Semester

Fine Arts

Art I– Introduction to Art/Art Appreciation - Prerequisites: None. Credit: One Unit. Grade Level: 9-12 One Semester

Art I is designed to reinforce and build on 21st Century Knowledge and Skills developed by the K-8 Visual Arts Content Standards and Objectives. Students produce two-dimensional and three-dimensional artworks using a variety of media, techniques, technology, and processes. They relate art skills and strategies to other disciplines, various cultures, major art movements, and historical periods. They practice responsible workplace skills and review career options which encompass 21st Century content, literacy, and life skills. This class focuses primarily on basic drawing skills as a foundation for advanced studies.

Art II – Prerequisite: Art I. Credit: One Unit. Grade Level: 9-12. One Semester

Students in Art II extend artistic skills, critical skills, and concept development through well-defined experiences in creating, reflecting, and discussing artworks. Students focus on compositional awareness through the proficient use of elements, principles, structures, and functions. Students explore various aspects of the arts in the context of global cultures and historical parameters as they examine connections between other disciplines, and technologies. Students practice responsible workplace skills and safety. They explore career opportunities. The teacher introduces the concept of portfolio development. All these concepts and processes reflect 21st century skills and content.

Art III – Prerequisites: Art I and II. Credit: One Unit. Grade Level: 10-12. One Semester

Art III builds on previous content standards with a more in-depth approach. Students analyze and respond to art from various global cultures visually, verbally, and in written form. Students examine and relate various themes and purposes of art forms to the total educational process. They study art history, criticism, and aesthetics in relation to individually selected artworks and develop a personal philosophy of art. The students develop portfolios that include products and critiques, and other reflective work as they develop a personal style. Skills in learning and thinking, literacy on a variety of levels and life skills for the 21st century are developed through in-depth core subject content in the arts.

Art IV– Prerequisites: Art I, II, and III. Credit: One Unit. Grade Level: 11-12. One Semester

In Art IV, students develop and clarify their philosophy of art and art making through in-depth explorations with media, techniques and processes. Students expand and refine a portfolio reflecting a broad base of global and personal knowledge in the arts. Students take part in planning and installing an exhibition. 21st century learning and thinking skills, literacy in a variety of forms, and life skills are applied to content and projects.

AP Studio Art – Prerequisite: Art I and Art II. Credit: One Unit Grade Level: 10-12. Full Year.

AP Studio Art is an advanced placement course that focuses on drawing, 2D and 3D art. Students will choose on area of focus to create their portfolio.

Ceramics/Pottery – Prerequisite: Art I Credit: One Unit Grade Level: 10-12. One Semester

Ceramics I provides an in-depth study of the clay medium, techniques and processes. Students are expected to become proficient in knowledge and skill using clay and glazes; gain an understanding of the vocabulary related to ceramics; incorporate modern technology in their study of the history of pottery and clay sculpture; study related 21st century ceramic careers; and practice the safe and responsible use of the clay studio equipment, tools and materials. Clay projects include multi-processes. Self-discipline and self-motivation are key to the ceramic student's success.

Crafts - Prerequisite: None. Credit: One Unit Grade Level: 09 -12. One Semester

Crafts courses teach the same lessons as creative comprehensive courses but do so with a focus on craft. A wide range of crafts may be surveyed, or the course may focus on only one type.

Textiles – Prerequisite: Art I. Credit: One Unit. Grade Level: 10 – 12. One Semester

Textiles courses teach the same lessons as creative comprehensive courses but do so with a focus on textiles. A wide range of textiles may be surveyed, or the course may focus on only one type.

Marching/Concert Band I/II/III/IV – Prerequisite: Advanced Band in the eighth and ninth grade or passing audition for the current band director at Shady Spring High School. Credit: One Unit. Grade Level: 9-12. One Semester

Students will explore a variety of musical genres and hone their technical and artistic aptitudes. They will learn the rudiments of music theory, explore the historical context of the repertoire they perform, and develop active listening abilities. In addition, students will develop skills using critical thinking, creativity, problem solving, global awareness, civic literacy, communication, self-direction, personal productivity, and leadership. The band performs at school football games, parades in the community, band festivals throughout the region, numerous concerts and other performances. Students will be expected to perform with the rest of the group during after school hours as part of their grade.

Chorus I/II/III/IV – Prerequisite: None. Credit: One Unit. Grade level: 9-12. One Semester

This course is designed to teach the basics of good vocal tone production, diction, intonation, and artistic interpretation. They will learn basic musicianship, explore the historical context of the repertoire they perform, and develop active listening abilities. In addition, students will develop skills using critical thinking, creativity, problem solving, global awareness, civic literacy, communication, self-direction, personal productivity, and leadership. The chorus performs around the community as well as at concerts throughout the school year. Students will be expected to perform with the group during after school hours as part of their grade.

Guitar I– Credit: One Unit Grade Level: 9-12. One Semester

Students enrolled in guitar class will learn basic musicianship on the guitar, including tone production, and single-note melodies and chording. Students will learn to read music and tablature and will listen to guitar music from a variety of styles and periods. Students will develop critical thinking skills, self-direction and global awareness. Each student must provide his/her own instrument.

Guitar II - Prerequisite: Guitar I. Credit: One Unit. Grade level: 10-12. One Semester

Music Appreciation/History – Prerequisite: None Credit: One Unit. Grade Level: 9-12. One Semester.

This course explores music in a wide variety of musical styles and time periods. Periods include but are not limited to Antiquity, Medieval, Renaissance, Baroque, Classical, and Romantic. Students learn about the relationship of music to art, architecture, and history as well as music technology and its use in today's musical compositions.

Math

Algebra I - Prerequisite: None. Credit: One Unit. Grade Level: 9. Full Year.

This is the first course in the progression of high school math courses. The branch of mathematics in which arithmetical operations and relationships are generalized by using alphabetic symbols to represent unknown numbers or members of specified sets of numbers

Algebra I Support – Prerequisite: Must be taken with Algebra I. Credit: One Unit. Grade level: 9. Full Year.

Mathematics taught in the ninth grade year is often referred to as “gatekeeper” content to higher level mathematics. Struggling ninth grade students may benefit from Algebra 1 Support. Algebra 1 Support connects to the Algebra 1 content standards while including useful proficiencies such as applying ratio reasoning in real-world and mathematical problems, computing fluently with positive and negative fractions and decimals, and solving real-world and mathematical problems involving angle measure, area, surface area, and volume.

Algebra I – Honors Prerequisite: Qualifying standardized test scores, 8th Grade Math Performance
Credit: One Unit. Grade Level: 9. Full Year.

This is the accelerated course for 9th grade students as the first course in the progression of high school math courses.

Geometry - Prerequisites: Completion of Algebra I (Math I) or Co Requisite of Algebra I Honors.
Credit: One Unit. Grade Level: 9 - 10. Full Year.

The branch of mathematics concerned with the properties, relationships, and measurement of points, lines, curves, and surfaces.

Geometry – Honors. Prerequisites: Satisfactory completion of Algebra I (Math I) –Honors; Qualifying test scores and Algebra I performance; Qualifying standardized test scores and 8th Grade Math Performance; Co Requisite of Algebra I Honors. Credit: One Unit. Grade Level: 9 - 10. Full Year.

This is the accelerated course.

Algebra II - Prerequisites: Satisfactory completion of Algebra I (Math I) and Geometry (Math II); Co-Requisite: Geometry Honors. Credit: One Unit. Grade Level: 10 - 11 Full Year.

A thorough treatment of advanced algebraic concepts will be provided through the study of functions, “families of functions,” equations, inequalities, systems of equations and inequalities, polynomials, rational and radical equations, complex numbers, and sequences and series. Emphasis will be placed on practical applications and modeling throughout the course of study. Oral and written communication concerning the language of algebra, logic of procedures, and interpretation of results should also permeate the course.

Algebra II - Honors - Prerequisites: Satisfactory completion of Algebra I (Math I) Honors and Geometry (Math II) or Co-requisite with Geometry Honors. Credit: One Unit. Grade Level: 10 - 11 Full Year

This is the accelerated course

Trig/Pre-Calculus – Prerequisites: Satisfactory completion of Geometry (Math II) and Algebra II (Math III). Credit: One Unit. Grade Level: 11 – 12. Full Year

A year course combining the aspects of trigonometry, analytical geometry, and algebraic techniques needed in preparation for the study of calculus. A graphing calculator is used extensively in concept development.

Transitional Math - Prerequisites: Completion of Algebra II (Math III). – Credit: One Unit. Grade Level: 12 One Semester

This prepares students for entry-level credit-bearing liberal studies mathematics course at the post-secondary level. This course will solidify a student’s quantitative literacy and problem-solving skills using the fundamental concepts of algebra, geometry, and introductory trigonometry.

AP Calculus – AB Prerequisites: Successful completion of Trig/Pre-Calculus (Math III). Credit: One Unit. Grade Level: 12. Full Year

This is an advanced math course designed for those students who intend to proceed to a four-year college in which the student will be required to take at least one semester of calculus for the major of their choice. The course delves into the mathematical theory that develops and defines the topics of limits and derivation. Students will then develop the concepts of integration and advanced anti-differentiation techniques. The topics are fully studied and employed in the context of real-world applications.

AP Statistics Prerequisites: Successful Completion of Algebra I (Math I) Honors or Algebra II. Credit: One Unit. Grade Level: 10 – 12. Full Year

This course introduces students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes:

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

This is a rigorous course designed for college-bound students. Student who complete this course are prepared to take to the AP Statistics Test which, if passed with a 3 or higher, may entitle the student to college credit depending on the institution of choice.

AP Computer Science - Prerequisites: Algebra I and Co-Requisite: Geometry. Credit: One Unit. Grade Level: 10 – 12. Full Year

This is a one-year introductory course in computer science. Because the design and implementation of computer programs to solve problems involve skills that are fundamental to the study of computer science, a large part of the course is built around the development of computer programs that correctly solve a given problem. These programs should be understandable, adaptable, and, when appropriate, reusable. At the same time, the design and implementation of computer programs is used as a context for introducing other important aspects of computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, the study of standard algorithms and typical applications, and the use of logic and formal methods. Students who complete the course are prepared to take the AP Computer Science Test which may entitle them to college credit if a score of 3 or higher is attained.

Introduction to Personal Finances – Prerequisites: Math I. Credit: One Unit. Grade Level: 10 – 12. One Semester

This course is a semester elective designed to teach students skills essential to personal financial success. Topics such as personal credit, banking, loans, insurance, investment, personal taxes and budgeting are explored in an engaging manner utilizing a real-world approach. Any student can benefit from this exciting elective designed to make them successful debt-free citizens!

Robotics – Prerequisites: None. Credit: One Unit. Grade Level: 9 – 12. One Semester

This is a one-semester elective in which students will be introduced to the fundamental concepts of programming and robotics in a STEM context. Course will cover the fundamentals of program design, algorithms and the programming language necessary to instruct robot to complete given tasks. Students will utilize mathematics and scientific theory to develop solutions to problems. Students must be willing to be creative and engage in problem solving on their own with instructor guidance.

Robotics: STEM – Prerequisites: Robotics I. Credit: One Unit. Grade Level: 10 – 12. One Semester

Robotics will immerse students in activities that allow them to apply skills obtained in Robotics I. This is accomplished by providing problem-based learning lessons that expose students to real-world conditions. This learning approach creates a student-centered environment by providing a *learning by doing* setting which is the focal point of educational robotics. This program focuses on transferable skills and stresses understanding and demonstration of the science and mathematical knowledge, technological tools, machines, materials, processes and systems related to robotics.

Social Studies

World Studies to 1900 – Prerequisites: None. Credit: One Unit. Grade Level: 9. Full Year

The study of the world emphasizes the history, economic, geographic, political, and social structures of various cultural regions of the world from the dawn of civilization to 1900. Special attention is given to the formation and evolution of societies into complex political and economic systems. Geography/map skills are emphasized.

Honor's World Studies to 1900 - Prerequisite: Strong 8th Grade Performance. Credit: One Unit. Grade Level: 9. Full Year.

U.S. Studies to 1900 – Prerequisites: None. Credit: One Unit. Grade Level: 10. Full Year

This course studies the U.S. from the formative years of the Pre-Columbian civilizations to its transformation as a dominant political and economic influence in the world. The program follows the evolution of the Constitution as a living document and the role of participatory democracy in a rapidly changing technological society.

U.S. Studies, 20th-21st Century – Prerequisites: None. Credit: One Unit. Grade Level: 11. Full Year

This course will be a study of American relationships with the world since 1900. Changes in government, government policies, society, and relations with the world will be discussed. The wars the United States has been involved in during the Twentieth Century also will be covered.

Civics and Government – Prerequisites: None. Credit: One Unit. Grade Level: 12. Full year

Emphasis is placed on responsible participatory citizenship, an understanding of the workings of our government, sound financial literacy, and geography. In this course, students develop the knowledge, skills and dispositions to engage in civic life, financial literacy, politics, government and geographical concepts. Students will analyze the personal, political, and geographical roles of responsible citizens in American democracy.

Psychology – Prerequisites: None. Credit: One Unit. Grade Level: 10- 12. One Semester

In this class, students learn about the relationship of the individual to different social groups. This study begins with the child and continues through adolescence, marriage, and old age. Students discuss the differences between culture and social groups. Students also look at ways to avoid or deal with social problems facing the individual all through life.

AP Psychology – Credit: One Unit. Grade Level: 11-12. Full Year (Optional dual credit).

The purpose of the Advanced Placement Psychology Course is to introduce students to the systematic and scientific study of behavior and mental processes. Students are exposed to the psychological facts, principles, and phenomena associated with the major sub fields within psychology. Learning extends to the methods psychologists use in their science and practice.

Sociology – Prerequisites: None. Credit: One Unit. Grade Level: 10 – 12. One Semester

This course is designed to develop an understanding of structure and functions of the social world. Certain emphasis will be placed on the study of human behavior in society, problems in our society and possible solutions, social organizations and social institutions. Research techniques of sociology will be used.

Economics – Prerequisites: None. Credit: One Unit. Grade Level: 10 – 12. One Semester

Understanding economics is essential for all students to enable them to reason logically about key economic issues that affect their lives as workers, consumers, and citizens. A better understanding of economics enables students to understand the forces that affect them every day and helps them identify and evaluate the consequences of personal decisions. As resources become scarce, as the economic environment changes, and as the economic impact of decisions becomes more immediate, students must make sense of the array of economic concepts, facts, events, observations and issues in everyday life and the ability to make effective decisions about economic issues.

AP Human Geography – Prerequisite: None. Credit: One Unit. Grade Level: 10 -12. Full Year

This college-level course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analyses to analyze human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice.

AP U.S. History – Prerequisite: None. Credit: Two Units. Level: 10-12. Full Year

AP United States History focuses on developing students' abilities to think conceptually about U.S. history from approximately 1491 to the present and apply historical thinking skills as they learn about the past. Seven themes of equal importance — identity; peopling; politics and power; work, exchange, and technology; America in the world; environment and geography; and ideas, beliefs, and culture — provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places

AP U.S. Government and Politics – Credit: One Unit. Grade Level: 10-12. Full Year

This is a college level course designed to prepare students for the Advanced Placement US Government and Politics Examination. The course is designed to give students an analytical perspective on government and politics (both formal and informal structures) and acquaints students with the variety of theoretical perspectives and explanations for various behaviors and outcomes.

Driver Education

Driver Education: Prerequisite: Must be 15 when entering the class. Credit: One Unit. Grade Level: 10 – 12. One Semester

This course meets state certification requirements, which include six hours of in-car instruction, ten hours of in-car observation and fifty hours of classroom instruction. In-car instruction includes driving skills: rural roadways, urban, interstate, and parking.

Classroom instruction includes topics such as signs, signals, and roadway markings; vehicle control; risk management; natural laws and car control; vehicle maneuvers; negotiating intersections; sharing the roadway with pedestrians, motorcycles, and other vehicles and trucks; driving on urban and rural roads and expressways; driving in adverse conditions; handling emergencies; effects of driver condition; alcohol and other drugs; buying and owning a vehicle, maintaining your vehicle; and planning travel. The goal of this course is to teach safe driving habits to beginners and to make a safer driver of those who already have obtained a license.

Physical Education/ Health

Physical Education – Prerequisites: None. Credit: One Unit. Grade Level: 9 – 12. One Semester

The course objectives for Physical Education are to provide students with an opportunity to fulfill their graduation requirements, to improve the students' general physical condition, to offer the students the necessary skills required to enjoy each activity, to promote a safety-conscious atmosphere during activities, and to provide student activities that will encourage lifetime physical conditioning. These students will be involved in individual, dual, and team sports during the school year.

Fitness and Conditioning – Prerequisite: Physical Education. Credit: One Unit. Grade Level: 10 – 12. One Semester

The emphasis in this course is on conditioning activities that develop muscular strength, flexibility, and cardiovascular fitness.

Weight Training - Prerequisite: Physical Education. Credit: One Unit. Grade Level: 10 – 12. One Semester

Weight training courses develop skills with free weights and universal stations; they may also include other components such as anatomy and conditioning.

Sports Physiology - Prerequisite: Physical Education. Credit: One Unit. Grade Level: 10 – 12. One Semester

Courses in sports physiology examine anatomy and physiology as they pertain to participation in sports activities; they may or may not emphasize the prevention and treatment of athletic injuries

Health – Prerequisites: None. Credit: One Unit. Grade Level: 9-12. One Semester

This class is designed to educate students on proper health practices and the hazards of drugs, alcohol, and tobacco to their health. Also, information on mental health, nutrition, anatomy, physiology, and safety are included.

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Special Education

The program includes all academic classes required for graduation. Students in the special programs may attend the Academy of Careers and Technology.

Science

Anatomy and Physiology– Prerequisite: Biology. Credit: 1 Unit. Grade Level: 11-12. Full Year

This course focuses on in-depth understanding of the structures and functions of the human body. It is appropriate for college-bound students as well as those choosing a health services career cluster

AP Biology – Prerequisites: Chemistry or currently taking chemistry. Credit: One Unit. Grade Level: 11 – 12. Full Year.

In this yearlong course students will explore in lab and discuss advanced topics in cell biology, genetics, plant and animal physiology, ecology and evolution. The topics are geared both toward the interests of students going into a career in medicine or biology. College credit may be obtained by the successful writing of the AP Biology Exam.

AP Chemistry – Prerequisites: Chemistry. Preferred Prerequisite: Chemistry II Credit: One Unit. Grade Level: 12. Double Block for a Full Year

Students will develop through lecture and laboratory analysis a strong academic base concerning the concepts found in the introductory level college chemistry course. The course is geared to those individuals that may be pursuing degrees in which chemistry is a fundamental part such as pre-med, pharmacy, or engineering. College credit may be obtained by the successful writing of the AP Chemistry Exam.

AP Physics I – Prerequisites: Algebra I, Geometry, Algebra II, Trigonometry or Math I, Math II, Math III: Grade Level 11-12. Full Year

This is a college preparatory course that is lab driven covering the topics of Newton's Laws of Motion and Mechanics using Algebra based format. Course is designed for students to take AP Physics I College Board Exam.

Biology – Prerequisite: Earth Science. Credit: One Unit. Grade level: 10. Full year

This course is a general biology course. It will explore biology as science, the chemical basis of life, cell structure and function, patterns of heredity, taxonomy and ecology.

Honors Biology – Prerequisite: Ninth Grade Earth and Space Science, Honors preferred. Credit: One Unit. Grade Level: 10. Full Year

This course is an advanced level general biology course. It will explore biology as a science, the chemical basis of life, cell structure and function, patterns of heredity, taxonomy, and ecology. This course is an accelerated course and will provide preparation for both upper level science courses and Advanced Placement courses.

Biology II – Prerequisite: Biology. Credit: One Unit. Grade Level: 11-12. One Semester

Students will build upon the biology concepts from the 10th Grade Biology program of study. Areas covered include the structural basis of life, biochemical and genetic similarities and differences, laws of heredity, and ecology.

Chemistry – Prerequisites: Biology. Credit: One Unit. Grade Level: 11 - 12. Full Year

This course is designed to prepare a student for college chemistry requiring a strong mathematical base. The relationship between chemistry concepts such as matter, its composition and changes it undergoes will be emphasized. The quantitative mathematical relationships of various chemical and physical properties with atomic structure will be stressed.

Chemistry II – Prerequisites: Chemistry. Credit: One Unit. Grade Level: 11-12. One Semester This course further develops the concepts introduced in Chemistry. Equilibrium, acid-base chemistry, electrochemistry, kinetics, solubility, thermodynamics, gases, organic chemistry and nuclear chemistry are studied.

Earth and Space Science – Prerequisites: None. Credit: One Unit. Grade Level: 9. Full Year.

Students will explore Earth through the study of geology, meteorology, astronomy, and oceanography. All will be viewed as to environmental effects on the Earth.

Honor's Earth and Space Science - Prerequisites: Mastery or higher on state assessment in science if given and strong 8th grade performance. Credit: One Unit. Grade Level: 9. Full Year

Students will explore Earth through the study of geology, meteorology, astronomy, and oceanography. All will be viewed as to environmental effects on the Earth.

Environmental Science – Prerequisite: Biology or currently taking Biology. Credit: One Unit. Grade Level: 10 -12. One Semester

Students will explore the interdependence of earth's systems, human populations, renewable and nonrenewable resources, and environmental quality of air, water, soil, and waste.

Physical Science – Prerequisite: Biology. Credit: One Unit. Grade: 11 - 12. One Semester

This course continues the development of the foundational knowledge of chemistry, physics, earth, and space science. This is an advanced level course designed to help prepare students to continue in advanced-level science classes and those that are interested in attending college.

Human Genetics – Prerequisite: Biology. Credit: One Unit. Grade Level 11-12. One Semester

Mendelian genetics is expanded upon in coverage of key topics such as gene chemistry, replication, recombination, transcription, translation, mutations, cloning and manipulation, in relation to humans. Conditions and diseases of humans are examined.

Zoology – Prerequisites: Biology. Credit: One Unit. Grade Level 11-12. One Semester

This course covers animal diversity and adaptations with comparative anatomy among the various phyla, as well as the intricate workings of ecosystems and the delicate balances of nature.

Forensic Science – Prerequisites: None. Credit: One Unit. Grade Level 10 – 12. One Semester

Forensic Science is an advanced, high school elective course designed to provide students with hands-on experiences in various aspects of a criminal investigation. Students will learn how to process a crime scene, including looking for fingerprints, blood typing, hair and fiber analysis, foot and tire impressions, etc. Students will also learn the vital link that the researcher provides to crime scene investigation, including photography, sketching, and maintaining a proper chain of evidence.

STEM Lab I – Prerequisites: None. Credit: One Unit. Grade Level: 9 – 12. One Semester

This one credit course will introduce students to the basic principles of materials, mechanisms, structures, electricity, electronic control, fluidics, computer control and graphic communication and how they can be integrated and used to solve a variety of complex technical challenges.

STEM Lab II – Prerequisites: STEM Lab I. Credit: One Unit. Grade Level: 10 – 12. One Semester

STEM Lab II will immerse students in activities that allow them to apply skills obtained in STEM Lab I. Students work in engineering teams to develop work process skills, such as researching, writing, organizing, modeling, calculating, and communicating with others.

Family and Consumer Science

CTE Program of Study: HO1015 Baking and Pastry

Four Courses - 1980 Restaurant and Culinary Foundations
1024 Baking and Pastry I
1025 Baking and Pastry II
1026 Baking and Pastry Advanced

Program of Study Description: This program will help prepare students for either going into a baking and pastry program at a culinary school or work in a bakery right after graduation.

1024 Baking and Pastry I – Prerequisites: None. Credit: One Unit. Grade Level: 9 – 12. One Semester, Two Period

This course will educate students on the basics of the industry. This course starts with teaching students about the various ingredients used for baking and pastry arts and how these ingredients react to each other to make products. It will also instruct students on various breads such as quick breads, artisan and yeast breads, and laminated doughs. Students utilize 4 problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction.

1025 Baking and Pastry II - Prerequisites: Baking and Pastry I. Credit: One Unit. Grade Level: 10 – 12. One Semester, Two Periods

This course will instruct students on how to make cookies, pies, and cakes. It educates students about the various types of icings and frostings and introduces them to custards, sauces, and creams. This course also teaches students how to make ice cream and gives them some knowledge of how to adapt recipes to meet special dietary needs. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.

1980 Baking and Pastry Advanced - Prerequisites: Baking and Pastry II. Credit: One Unit. Grade Level: 10 – 12. One Semester, Two Periods

This course will educate students on how to make some of the more intricate products of the industry. It will introduce students to tortes and specialty cakes, petit fours, and plated desserts. This course also will give students some experience with chocolate and sugar work. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.

“Stand Alone” Family and Consumer Science Courses

Fundamentals of Human Services - Prerequisites: None. Credit: One Unit. Grade Level: 9 - 12. One Semester

This course is designed to describe fundamental principles of the helping professions within the Human Services career cluster. Students will synthesize the knowledge, skills, attitudes and practices required for careers addressing the social issues and concerns of individuals, families and communities. Topics include: the roles and functions of Human Service professionals; professional, legal, ethical and safety

issues and policies; Human Services interventions such as effective communication skills, problem-solving techniques and wellness initiatives; issues relating to disadvantaging conditions experienced by recipients of Human Services; and diversity. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.

1071 Seminar in Human Services

This course is designed to provide students with fundamental principles in the community behavioral health field including: the modern delivery of behavioral health care services; service populations in behavioral health; symptoms and treatments of various mental disorders; biopsychosocial assessment; development of interpersonal communication skills; recording of critical events; crisis intervention skills; ethics and confidentiality; and safety techniques. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students are encouraged to become active members of the student organization FCCLA or HOSA. Teachers should provide each student with real world learning opportunities and instruction. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

1070 Practical Applications of Human Services

This course is designed to give students the opportunity to connect theory and practice by interacting with Social Services professionals. Students will study various requirements for employability in the Social Services field including ethics, teamwork, and professionalism. Students may participate in activities associated with Social Services agencies in various settings for hands-on or work-based experiences. Preparation includes construction of a portfolio that can be utilized in obtaining employment upon completion of the student's program. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students are encouraged to become active members of the student organization FCCLA or HOSA. Teachers should provide each student with real world learning opportunities and instruction. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

Parenting and Strong Families: Prerequisites: None. Credit: One Unit. Grade Level: 10 - 12. One Semester.

This course is designed to help students evaluate readiness for parenting while examining appropriate Parenting and Strong Families practices. Students will develop an awareness of societal issues affecting families and explore support systems. Students will use reasoning processes, individually and collaboratively, to take responsible action in families, workplaces, and communities. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.

Agriculture Education

CTE Program of Study: AG0120 Agribusiness Systems.

Four Courses – 0101 Introduction to Agriculture, Food, and Natural Resources
0102 The Science of Agriculture
0134 Agricultural Experience Program (Embedded)
Plus one Agribusiness Specialization from below:
0183 Forest Management
0140 Animal Production and Management
0112 Fundamentals of Agriculture Mechanics (2 periods long)
0139 Fundamentals of Animal Processing (2 periods long)
0200 Natural Resource Management
0212 Horticulture

Program of Study Description: This program focuses on entrepreneurial and technical skills and careers in the broad spectrum of Agriculture, Food, and Natural Resources.

CTE Program of Study: AG0220 Animal Systems.

Four Courses - 0101 Introduction to Agriculture, Food and Natural Resources
0140 Animal Production and Management
0134 Agricultural Experience Program (Embedded)
0141 Aquaculture

Program of Study Description: The Animal Systems Program of Study focuses on entrepreneurial and technical skills and careers in the areas of animal production and management, animal science, livestock production, aquaculture.

CTE Program of Study: AG0230 Animal Processing.

Four Courses - 0101 Introduction to Agriculture, Food and Natural Resources
0139 Fundamentals of Animal Processing (2 periods long)
0134 Agricultural Experience Program (Embedded)
0151 Animal processing—Retail (2 periods long)

Program of Study Description: The Animal Processing Systems pathway focuses on entrepreneurial and technical skills and careers in the animal processing industry. Specializations for this Program of Study prepare students for the retail industry and the commercial plant industry.

CTE Program of Study: AG0170 Natural Resources Management

Four Courses - 0101 Introduction to Agriculture, Food and Natural Resources
0200 Natural Resources Management
0134 Agricultural Experience Program (Embedded)
0183 Forest Management

Program of Study Description: This program focuses on entrepreneurial and technical skills and careers in the areas natural resources management – Specialization: forestry.

CTE Program of Study: AG0110 Power, Structural and Technical Systems

Four Courses: 0101 Introduction to Agriculture, Food, and Natural Resources
0112 Fundamentals of Agriculture Mechanics
0134 Agricultural Experience Program (Embedded)
Plus One Agribusiness Specialization from below:
0113 Agriculture Structures (2 periods long)
0114 Agriculture Equipment and Repair (2 periods long)

CTE Program of Study: AG0215 CASE Plant Science

Four Courses: 0101 Introduction to Agriculture, Food, and Natural Resources
0212 Horticulture
0213 Floriculture
0134 Agricultural Experience Program (Embedded)

0101 Introduction to Agriculture, Food, and Natural Resources - Prerequisites: None. Credit: One Unit. Grade Level: 9-12. One Semester

This course builds a knowledge base and technical skills in all aspects of the industry. Learners will be exposed to a broad range of agriculture, food and natural resources careers. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students are encouraged to become active members of the student organization, FFA. Supervised Agriculture Experience (0134) component required.

0102 The Science of Agriculture - Prerequisites: None. Credit: One Unit. Grade Level: 10-12. One Semester

This course focuses on the basic scientific principles and processes related to the production of plants and animals for the food and fiber systems. Topics of instruction include basic understanding of the livestock/poultry industry and its various components, career opportunities, soil science, crop science/agronomy, weed science, basic agricultural mechanics and related industry careers, environmental stewardship, entrepreneurship, and leadership/personal development. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students are encouraged to become active members of the student organization, FFA. Supervised Agriculture Experience (0134) component required.

0112 Fundamentals of Agriculture Mechanics - Prerequisites: Introduction to Agriculture, Food, and Natural Resources OR the Science of Agriculture. Credit: One Unit. Grade Level: 10- 12. One Semester.

This course introduces the knowledge and skills for applying the physical science principles and principles of operation and maintenance to mechanical equipment, welding and fabrication, structures, plumbing, electrical wiring, power utilization, entrepreneurship. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students are encouraged to become active members of the student organization, FFA. Supervised Agriculture Experience (0134) component required.

0113 Agriculture Structures - Prerequisites: Introduction to Agriculture, Food, and Natural Resources OR the Science of Agriculture AND Fundamentals of Agriculture Mechanics. Credit: One Unit. Grades 10 – 12 Two periods, One Semester – offer first semester only

Students will use computer skills to develop simple sketches and plans, read and relate structural plans to specifications and building codes, estimate project costs, use construction/fabrication equipment and tools, and plan and design machinery, equipment, buildings and facilities. Students are encouraged to become active members of the student organization, FFA. Supervised Agriculture Experience (0134) component required.

0114 Agriculture Equipment and Repair - Prerequisites: Introduction to Agriculture, Food, and Natural Resources OR the Science of Agriculture AND Fundamentals of Agriculture Mechanics. Credit: One Unit. Grade Level: 10-12. Two periods, One Semester – offered second semester only

This course builds on the principles of the previous course and provides more in-depth knowledge and skills as they relate to energy sources, lubricants, service and maintenance of machinery and equipment, and equipment operation. Students will apply principles of service and repair by troubleshooting problems and evaluating engine performance, follow guidelines to service and repair power transmission systems, hydraulic systems, and entrepreneurship. Tools used with these procedures will allow students to demonstrate proper skills and safety. Students are encouraged to become active members of the student organization, FFA. Supervised Agriculture Experience (0134) component required.

0134 Agricultural Experience Program (Embedded) - Prerequisites: Enrollment in another agriculture class. Credit: 1/2 Unit per year. Grade level: 9 -12

Supervised agriculture experience (SAE) is a required component of agriculture classes. Students can explore agriculture careers, complete research projects, obtain a career placement position, or complete an entrepreneurship project. Credit requires completing and submitting individual records. Students are encouraged to become active members of the student organization, FFA

0139 Fundamentals of Animal Processing - Prerequisites: None. Credit: One Unit. Grade Level: 11- 12. One Semester

This course introduces students to the principles and applications of animal processing. Students will learn carcass grading, primal and retail cuts, workplace safety, how to process primal and retail cuts, and entrepreneurship. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students are encouraged to become active members of the student organization, FFA. Supervised Agriculture Experience (0134) component required.

0140 Animal Production and Management - Prerequisites: None. Credit: One Unit. One Semester. Grades: 10 – 12.

The course will cover topics on animal restraint, animal management techniques, animal health and welfare, balancing rations, pedigree analysis, and entrepreneurship. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students are encouraged to become active members of the student organization, FFA. Supervised Agriculture Experience (0134) component required.

0141 Aquaculture - Prerequisites: None. Credit: One Unit. Grade Level: 09 - 12 One Semester

This specialization course focuses on the basic scientific principles and processes related to the aquaculture industry. Topics covered will be developing feed rations, business planning, developing marketing plans aquaculture facilities, water quality, breeding and management. Students are encouraged to become active members of the student organization, FFA. Supervised Agriculture Experience (0134) component required.

0151 Animal Processing—Retail - Pre - Requisite: Fundamentals of Animal Processing. Credit: One Unit. Grade Level: 11-12. Two periods, One Semester

This course is designed to give students the skills and knowledge needed to enter a career in the retail industry of animal processing. This course will build upon the concepts learned in Fundamentals of Animal Processing and emphasize retail cut processing, creating value added products, working with the public, and entrepreneurship. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students are encouraged to become active members of the student organization, FFA. Supervised Agriculture Experience (0134) component required.

0200 Natural Resource Management Prerequisites: None. Credit: One Unit. One Semester. Grades: 9 – 12.

This specialization course covers topics on soil and water conservation, basic wildlife management, environmental law and regulations, basic forestry, and land management. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students are encouraged to become active members of the student organization, FFA. This class is now considered a science credit. Supervised Agriculture Experience (0134) component required.

0212 Horticulture: Prerequisites: None. Credit: One Unit. One Semester. Grades: 9 – 12.

This course provides instruction on the broad field of horticulture with emphasis on the scientific and technical knowledge for a career in horticulture. Topics in this course include plant growth and development, plant nutrition, media selection, basic plant identification, pest management, chemical disposal, customer relations, career opportunities, leadership development and entrepreneurial skills. Supervised Agriculture Experience (0134) component required.

0213 Floriculture: Prerequisites: None. Credit: One Unit. One Semester. Grades: 9 – 12.

This specialization course set in a floral shop setting covers topics on floral design (wreaths, centerpieces, corsages, etc.), business planning, market plan development, and entrepreneurship. Supervised Agriculture Experience (0134) component required.

2498 Arboriculture and Urban Forestry

The Arboriculture and Urban Forestry course is a specialization course designed for students to gain understanding of the management of trees in urban forest environments. The performance skill sets are written so students will identify, select, plant, prune and maintain trees and monitor tree health.