# GRADUATION REQUIREMENTS

**Language Arts** - 8 credits
**Math** - 6 credits
**Science** - 6 credits
**Personal & Career Readiness** - 1 credit

**Social Studies** - 6 credits, including:
*9th U.S. History (2 credits)*
*American Government (1 credit)*
**Physical Education** - must be taken every year;
*waivers are available*

A total of 50 credits are required to graduate from Shenandoah HS, with the remainder to be completed with electives.

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# COURSE DESCRIPTION INDE

# ADVANCED PLACEMENT (AP) COURSES

3231/32 **AP BIOLOGY** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: teacher approval & successful completion of HS Biology & HS Chemistry*

This is an online course. AP Biology is an introductory college-level biology course. This yearlong, college-level course is designed to prepare students for the Advanced Placement (AP) Biology exam. Units of study include biochemistry, cells, enzymes and metabolism, cell communication and cell cycle, gene expression, evolution and genetic diversity, and ecology. This course includes student guides and materials lists for required hands-on labs; these materials are not included in the course. Students are required to take the AP Biology exam in May. Seniors planning to graduate a semester early cannot enroll in yearlong AP classes.

3131/32 **AP CALCULUS AB** (1 year = 2 credits) GRADE 12 ELECTIVE

*PREREQUISITE: teacher approval & students should complete four years of secondary mathematics designed for college-bound students: courses in which they study algebra, geometry, trigonometry, analytic geometry, and elementary functions. These functions include linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric, and piecewise-defined functions. Before studying calculus, students must be familiar with the properties of functions, the algebra of functions, and the graphs of functions. Students must also understand the language of functions (domain and range, odd and even, periodic, symmetry, zeros, intercepts, and so on) and know the values of the trigonometric functions at the numbers 0, π/6, π/4, π/3, π/2, and their multiples.*

This is an online course. Major topics of study in this full-year course include a review of pre-calculus, limits, derivatives, definite integrals, mathematical modeling of differential equations, and the applications of these concepts. Emphasis is placed on the use of technology to solve problems and draw conclusions. The course utilizes a multi-representative approach to calculus with concepts and problems expressed numerically, graphically, verbally, and analytically. Students are required to take the AP Calculus AB exam in May. Seniors planning to graduate a semester early cannot enroll in yearlong AP classes.

3226/27 **AP CHEMISTRY** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: teacher approval & successful completion of HS Chemistry*
*MAXIMUM ENROLLMENT: 15 per section*

This course is offered at Shenandoah High School every year and online. AP Chemistry builds students' understanding of the nature and reactivity of matter. After studying chemical reactions and electrochemistry, students move on to understand how the chemical and physical properties of materials can be explained by the structure and arrangements of the molecules and the forces between those molecules. Students will examine the laws of thermodynamics, molecular collisions, and the reorganization of matter in order to understand how changes in matter take place. Finally, students will explore chemical equilibria, including acid-base equilibria. The equivalent of an introductory college-level chemistry course, AP Chemistry prepares students for the AP exam and for further study in science, health sciences, or engineering. The AP Chemistry course provides a learning experience focused on allowing students to develop their critical thinking skills and cognitive strategies. Frequent no- and low-stakes assessments allow students to measure their comprehension and improve their performance as they progress through each activity. Students regularly engage with primary source materials, allowing them to practice the critical reading and analysis skills that they will need in order to pass the AP exam and succeed in a college chemistry course. Students perform hands-on labs that give them insight into the nature of science and help them understand chemical concepts, as well as how evidence can be obtained to support those concepts. Students also complete several virtual lab studies in which they form hypotheses; collect, analyze, and manipulate data; and report their findings and conclusions. During both virtual and traditional lab investigations and research opportunities, students summarize their findings and analyze others' findings in summaries, using statistical and mathematical calculations when appropriate. Summative tests are offered at the end of each unit as well as at the end of each semester and contain objective and constructed response items. Robust scaffolding, rigorous instruction, relevant material, and regular active learning opportunities ensure that students can achieve mastery of the skills necessary to excel on the AP exam. Students

are required to take the AP Chemistry exam in May. Seniors planning to graduate a semester early cannot enroll in yearlong AP classes.

3867 **AP COMPUTER SCIENCE A (JAVA)** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: teacher approval & successful completion of Algebra 1; Algebra 2 is recommended*

This is an online course. This curriculum was designed to awaken and support students' problem-solving skills. AP Computer Science A will introduce the Java programming language while emphasizing universal language techniques like syntax, semantics and readability. Students will gain mastery in programming concepts by using a subset of Java features that are required for the AP Computer Science A exam, including abstraction, algorithms, data structures, and object-oriented programming. This allows the student to understand and master important concepts that will apply to programming problems in many additional languages. This curriculum will prepare students for advanced college coursework and careers in computer science. Students are required to take the AP Computer Science A exam in May. Seniors planning to graduate a semester early cannot enroll in yearlong AP classes.

**AP COMPUTER SCIENCE PRINCIPLES** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: teacher approval & successful completion of Computer Science Fundamentals & Algebra 1; Algebra 2 is recommended*
*MAXIMUM ENROLLMENT: 18 per section*

This course is offered at Shenandoah High School and online. This course continues the learning offered in Computer Science Fundamentals (CSF). Students will learn binary code, debugging, computer programming with java and Scratch, advanced problem solving, and practical code application. The course is designed with the goal of creating leaders in computer science fields and attracting and engaging those who are traditionally underrepresented with computing tools and multidisciplinary opportunities. Students are required to take the AP Computer Science Principles exam in May. Seniors planning to graduate a semester early cannot enroll in yearlong AP classes.

4045/46 **AP ENVIRONMENTAL SCIENCE** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: teacher approval & successful completion of Biology, Chemistry, & Algebra 1*

This is an online course. Environmental Science is a laboratory- and field-based course designed to provide students with the content and skills needed to understand the various interrelationships in the natural world, to identify and analyze environmental problems, and to propose and examine solutions to these problems. Since this is an online course, the laboratory- and field-based activities will be completed virtually and via experiments that students can easily perform at home with common materials. The course is intended to be the equivalent of a one-semester, college-level ecology course, which is taught over a full year in high school. The course encompasses human population dynamics, interrelationships in nature, energy flow, resources, environmental quality, human impact on environmental systems, and environmental law. Students are required to take the AP Environmental Science exam in May. Seniors planning to graduate a semester early cannot enroll in yearlong AP classes.

**AP HUMAN GEOGRAPHY** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: teacher approval & ability to read a college-level textbook and write grammatically correct, complete sentences*

This is an online course. The goal of the course is to provide students with a geographic perspective through which to view the world. Through a combination of direct instruction, documentary videos, and online readings, students will explore geographic concepts, theories, and models; human-environment interactions; and interactions among human systems. Topics covered include population, culture, political organization of space, agricultural land use, industrialization, and urban land use. Students will demonstrate their understanding and acquisition of skills through essays, document-based questions, student collaborative activities, and practice AP exams. Students are required to take the AP Human Geography exam in May. Seniors planning to graduate a semester early cannot enroll in yearlong AP classes.

3883/84 **AP LANGUAGE & COMPOSITION** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: teacher approval & successful completion of Advanced Language Arts*
*MAXIMUM ENROLLMENT: 15 per section*

This course is offered at Shenandoah High School and online. The AP English Language and Composition 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. Students are required to take the AP English Language and Composition exam in May. Seniors planning to graduate a semester early cannot enroll in yearlong AP classes.

3307/3876 **AP LITERATURE & COMPOSITION** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: teacher approval & successful completion of Advanced Language Arts*
*MAXIMUM ENROLLMENT: 15 per section*

This course is offered at Shenandoah High School and online. The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the way writers use language to provide both meaning and pleasure. As they read, students 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. Students are required to take the AP English Literature and Composition exam in May. Seniors planning to graduate a semester early cannot enroll in yearlong AP classes.

3835 **AP MACROECONOMICS** (1 semester = 1 credit) GRADES 11-12 ELECTIVE

*PREREQUISITE: teacher approval & successful completion of Algebra 2*

This is an online course. AP Macroeconomics students learn why and how the world economy can change from month to month, how to identify trends in our economy, and how to use those trends to develop performance measures and predictors of economic growth or decline. They'll also examine how individuals, institutions, and influences affect people, and how those factors can impact everyone's life through employment rates, government spending, inflation, taxes, and production. The equivalent of a 100-level college-level class, this course prepares students for the AP exam and for further study in business, political science and history. Students are required to take the AP Macroeconomics exam in May.

3834 **AP MICROECONOMICS** (1 semester = 1 credit) GRADES 11-12 ELECTIVE

*PREREQUISITE: teacher approval & successful completion of Algebra 1*

This is an online course. AP Microeconomics studies the behavior of individuals and businesses as they exchange goods and services in the marketplace. Students will learn why the same product costs different amounts at different stores, in different cities, at different times. They'll also learn to spot patterns in economic behavior and how to use those patterns to explain buyer and seller behavior under various conditions. Microeconomics studies the economic way of thinking, understanding the nature and function of markets, the role of scarcity and competition, the influence of factors such as interest rates on business decisions, and the role of government in promoting a healthy economy. The equivalent of a 100-level college course, AP Microeconomics prepares students for the AP exam and for further study in business, history, and political science. Students are required to take the AP Microeconomics exam in May.

3414 **AP PSYCHOLOGY** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: teacher approval & ability to read a college-level textbook and write grammatically correct, complete sentences*

This is an online course. Psychology will introduce students to the systematic study of the behavior and mental processes of human means and animals. Students are exposed to the psychological facts, principles, and phenomena associated with the major fields within psychology. Students also learn about the methods psychologists use in their science and practice. The major aim of this course is to provide each student with a learning experience equivalent to that obtained in most introductory college psychology courses. In addition, this course has been designed to help students successfully achieve a passing score on the AP® Psychology exam. Students are required to take the AP Psychology exam in May. Seniors planning to graduate a semester early cannot enroll in yearlong AP classes.

**AP SPANISH LANGUAGE & CULTURE** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: teacher approval & recommended student be currently enrolled in 4th year of Spanish*

This is an online course. Spanish Language and Culture is an advanced language course in which students acquire proficiencies that expand their cognitive, analytical, and communication skills. The course prepares students for the AP® Spanish Language and Culture Exam. It uses as its foundation the three modes of communication (interpersonal, interpretive, and presentational) as defined in the Standards for Foreign Language Learning in the Twenty-First Century. The course is designed as an immersion experience and is conducted almost exclusively in Spanish. In addition, all student work, practices, projects, participation, and assessments are in Spanish. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. In addition, students participate in a forum where they are able to share their opinions and comments about various topics and comment on other students' posts. The course also makes great use of the Internet for updated and current material. Students are required to take the AP Spanish Language and Culture exam in May. Seniors planning to graduate a semester early cannot enroll in yearlong AP classes.

3848/75 **AP STATISTICS** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: teacher approval & successful completion of Algebra 2*

This is an online course. Major topics of study include exploring one- and two-variable data, sampling, experimentation, probability, sampling distributions, and statistical inference. These topics are organized into three big ideas: variation and distribution, patterns and uncertainty, data-based predictions, decisions, and conclusions. Students are required to take the AP Statistics exam in May. Seniors planning to graduate a semester early cannot enroll in yearlong AP classes.

3404 **AP U.S. GOVERNMENT & POLITICS** (1 semester = 1 credit) GRADES 11-12 ELECTIVE

*PREREQUISITE: teacher approval & successful completion of U.S. History*

This is an online course. In this one-semester college-level course, students will study the Constitutional underpinnings and structure of the United States government, issues of politics and political parties, and topics in civil rights and public policy, demonstrating their understanding and acquisition of skills through written work, project-based activities, and practice exams. Students are required to take the AP Government exam in May.

408283 **AP UNITED STATES HISTORY** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: teacher approval & U.S. History*

*MAXIMUM ENROLLMENT: 15 per section*

This course is offered at Shenandoah High School and online. 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; people; 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. Students are required to take the AP United States History exam in May. Seniors planning to graduate a semester early cannot enroll in yearlong AP classes.

**AP WORLD HISTORY: MODERN** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: teacher approval & successful completion of World History before 1900 & World History after 1900*

This is an online course. This advanced study of world history explores historical themes common to societies around the world and across time periods, from 1200 to the present day. Emphasis is placed on document analysis, historical thinking skills, reasoning processes, and essay writing. Students will demonstrate their understanding and acquisition of skills through written work, document-based questions, project- based activities, and practice exams. Students are required to take the AP World History: Modern exam in May. Seniors planning to graduate a semester early cannot enroll in yearlong AP classes.

# AGRICULTURAL SCIENCE

4117 **AGRICULTURAL POWER & TECH** (1 semester = 1 credit) GRADES 11-12 ELECTIVE

*PREREQUISITE: Introduction to Agriculture, Food & Natural Resources 1 & 2*

*MAXIMUM ENROLLMENT: 12 per section*

The focus of Agricultural Power and Technology (APT) is to expose students to mechanics, power, technology, and career options in the world of agriculture. Students participating in the APT course will have experiences in various mechanical and engineering concepts with exciting hands-on activities, projects, and problems. Student's experiences will involve the study of energy, tool operation and safety, material properties, machine operation, and structural components. Students will acquire the basic skills to operate, repair, engineer, and design agricultural tools and equipment. Throughout the course, students will apply engineering principles to the construction of machines and structures. Students will explore projects and problems similar to those that a tradesperson, technician, or engineer may face in their respective careers. In addition, students will understand specific connections between science, math, and technical skills applied to Supervised Agricultural Experiences and FFA components that play an important role in developing an informed agricultural education student. Students will investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community. The Agricultural Power and Technology course includes: · Shop Safety · Tool Operation · Material Selection and Uses · Fabrication · Energy and Power Production · Machine Components and Design · Agricultural Structures · Engineering Design Process · Technical Applications of Math and Science. This course qualifies for FFA membership.

4117 **CASE AGRICULTURE BUSINESS FOUNDATION (ABF)** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 24 per section*

Agricultural Business Foundations (ABF) introduces students to business management in agriculture. Mathematics, reading, and writing components are woven in the context of agriculture and students will use the introductory skills and knowledge developed in this course throughout subsequent Curriculum for Agriculture Science Education (CASE) courses. Throughout the course are practical and engaging activities, projects, and problems to develop an improved business and employability skills. Additionally, students investigate and develop viable business plans in order to solve local problems. The business plan ideas are communicated to student peers and members of the professional community.

The ABF course includes starting a business, financial documents, risk management, and writing a business plan. The ABF course is an elective course from the CASE course menu. The course is structured for all students to experience agricultural business management practices in order to continue through a sequence of courses through high school. The knowledge and skills students develop can be used within multiple pathways of study. Participation in FFA is not required but is strongly recommended. This course qualifies for FFA membership.

4178 **Ag Environmental Issues** (1 semester = 1 credit) GRADES 10-12 ELECTIVE

*PREREQUISITE: Introduction to Agriculture, Food, & Natural Resources 1*
*MAXIMUM ENROLLMENT: 15 per section*

The Environmental Agriculture Issues course is a specialization-level course that enables students to research, analyze, and propose sustainable solutions to environmental issues surrounding ecosystem management, sustainable agriculture, energy choices, and pollution. FFA is recommended but not required.

3754 **FALL HORTICULTURE** (1 semester = 1 credit) GRADES 10-12 ELECTIVE

*PREREQUISITE: Introduction to Agriculture, Food, & Natural Resources 1*
*MAXIMUM ENROLLMENT: 15 per section*

This class focuses on plant science and incorporates working in the greenhouse to apply students' learning hands-on. Fall Horticulture's main project is raising poinsettias in the greenhouse to sell to the community. The semester-long project includes experimenting with different varieties of poinsettias and growing medium. Students also learn about horticulture careers, plant propagation, and plant nutrients. Participation in FFA is not required but is strongly recommended. This course qualifies for FFA membership.

3787/88 **INTRO TO AGRICULTURE, FOOD & NATURAL RESOURCES 1** (1 year = 2 credits) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*
*MAXIMUM ENROLLMENT: 24 per section*

This introductory agriculture class gives students a taste of everything that agriculture has to offer. The class begins by explaining the importance of agriculture and its industry in our state, country, and world. Students are shown the variety of areas and career opportunities involved within the agricultural field. A unit over FFA is covered explaining the history, guiding principles, and opportunities of the national organization. Students are also introduced to parliamentary procedure during this time, learning the proper ways to conduct business at meetings. The second half of the class focuses on animals in agriculture, including anatomy and physiology. Participation in FFA is not required but is strongly recommended.
**This course is the first needed in order to take other agricultural classes offered & must be taken for FFA membership.*

3789/90 **INTRO TO AGRICULTURE, FOOD & NATURAL RESOURCES 2** (1 year = 2 credits) GRADES 10-12 ELECTIVE

*PREREQUISITE: Introduction to Agriculture, Food & Natural Resources 1*
*MAXIMUM ENROLLMENT: 24 per section*

Intro to Agriculture 2's primary focus is plant science and natural resources. The first semester is spent looking into plant science in-depth and covering common crops grown in our area, as well as around the world. Second semester highlights wildlife and natural resources and their importance. Students learn about the wildlife industry, protecting it, and using it wisely. Recreational wildlife is covered by including fishing, hunting, and trapping. Environmental science topics are studied in depth to give students an appreciation of natural resources. Participation in FFA is not required but is strongly recommended. This course qualifies for FFA membership.

3756 **LEADERSHIP & DEVELOPMENT** (1 semester = 1 credit) GRADES 10-12 ELECTIVE

*PREREQUISITE: Introduction to Agriculture, Food & Natural Resources 1*
*MAXIMUM ENROLLMENT: 24 per section*

Leadership is for students striving to become better leaders through the development of personal and group skills. Students will look into the different personality traits, leadership styles, group dynamics, followership skills, team building, public speaking, employability, and self-concept. The class will also complete a service project during the semester. This class is highly recommended for FFA officers, as well as any other student looking to improve their ability to lead and influence others. Participation in FFA is not required but is strongly recommended. This course qualifies for FFA membership.

3757 **SMALL ANIMAL VET CARE** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*
*MAXIMUM ENROLLMENT: 24 per section*

Small Animal Vet focuses on the pet industry. Topics covered include the U.S. pet industry, careers with small animals, animal rights and welfare, and animal safety. Students then learn more about the breeds, care, feeding, diseases, and

reproduction of common pet species, such as dogs, cats, rabbits, and many more. Class will participate in dog grooming, care, and service placement of small animals. Participation in FFA is not required but is strongly recommended**.** This course qualifies for FFA membership.

3755 **SPRING HORTICULTURE** (1 semester = 1 credit) GRADES 10-12 ELECTIVE
*PREREQUISITE: Introduction to Agriculture, Food & Natural Resources 1*
*MAXIMUM ENROLLMENT: 15 per section*
This class focuses on plant science and incorporates working in the greenhouse to apply students' learning hands-on. Spring Horticulture's main project is starting a variety of annual flower and vegetable plants to sell to the community. Other topics include greenhouse structures and design, landscape design, and floriculture. Participation in FFA is not required but is strongly recommended. This course qualifies for FFA membership.

## AGRIBUSINESS ADMINISTRATION CERTIFICATE

(offered through Iowa Western Community College)

The Agribusiness Administration Certificate prepares students for entry-level positions in agribusiness organizations. Students gain an understanding of production agriculture and the role of agribusiness in the economy. Students are provided classroom instruction, lab, and field experience in order to pursue a career in agriculture business, administration, or accounting. Graduates of this program are awarded a certificate from Iowa Western Community College. The six courses required are listed below:

4158 **IWCC FARM BUSINESS MANAGEMENT** (1 semester = 1.5 HS & 3.0 IWCC credits) GRADES 11-12 ELECTIVE
Agricultural Economics is the introduction of economic principles of production, supply and demand applied to economic problems of agricultural-related industries, and to the decisions in farm management, marketing, foreign trade, and agricultural policy.

**IWCC AGRICULTURAL FINANCE** (1 semester = 1.5 HS & 3.0 IWCC credits) GRADES 11-12 ELECTIVE
Agricultural Finance provides an overview of agricultural finance principles. Topics covered include financial statements, liquidity and solvency analysis and capital structure of agricultural firms. Financial institutions, costs of credit, asset management, and public policy regarding agriculture finance topics are covered as well. This is Iowa Western Community College's course #AGB 466. Participation in FFA is not required but is strongly recommended. This course qualifies for FFA membership.

3753 **IWCC FARM BUSINESS MANAGEMENT** (1 semester = 1.5 HS & 3.0 IWCC credits) GRADES 11-12 ELECTIVE
*PREREQUISITE: Introduction to Agriculture, Food & Natural Resources 1 & 2*
*MAXIMUM ENROLLMENT: 24 per section*
Farm Business Management examines the business and economic principles applied to decision-making and problem-solving in the management of a farm business. Students learn about cash flow, partial, enterprise, and whole farm budgeting. Additional topics include information systems for farm accounting, analysis, and control; obtaining and managing land, capital, and labor resources; and alternatives for farm business organizations. This is Iowa Western Community College's course #AGB 330. Participation in FFA is not required but is strongly recommended. This course qualifies for FFA membership.

**IWCC INTRO TO CROP SCIENCE** (1 semester = 1.5 HS & 3.0 IWCC credits) GRADES 11-12 ELECTIVE
Introductions to Crop Science covers the basic structure and function of plants, origin and classification, growth and development. Additional topics include fundamentals of photosynthesis, plant water use, plant nutrition and genetics that regulate plant growth, development, and responses to the environment. This is Iowa Western Community College's course #AGA 181. Participation in FFA is not required but is strongly recommended. This course qualifies for FFA membership.

4028 **IWCC SURVEY OF THE ANIMAL INDUSTRY** (1 semester = 1.5 HS & 3.0 IWCC credits)GRADES 11-12 ELECTIVE

*PREREQUISITE: Introduction to Agriculture, Food & Natural Resources 1*
*MAXIMUM ENROLLMENT: 24 per section*
This class goes further into depth about animal science topics covered in Introduction to Agriculture, Food, & Natural Resources 1. Students learn more about the biotechnology side of the field, including genetics, artificial insemination, and embryo transfer. Food safety and security is also covered, including meat science. This is Iowa Western Community College's course #AGS 113. Participation in FFA is not required but is strongly recommended. This course qualifies for FFA membership.

***Students also need to complete a college level math course MAT 102 or higher (recommended: MAT 711 Business & Financial Math or MAT 743 Technical Math) to receive the Agribusiness Administration Certificate.**

# BUSINESS

3782/83 **Accounting I** (1 year = 2 credits) GRADES 9-12 ELECTIVE
*PREREQUISITE: None*
RECOMMENDED: Introduction to Business, Innovative Marketing, and Entrepreneurship
*MAXIMUM ENROLLMENT: 20 per section*
Students will gain an understanding of introductory principles of accounting including Deposits, Debits, General ledgers, journaling transactions, adjustments, balancing accounts, and managing professional financial statements and transactions. Students who begin this important coursework will learn how to utilize business math for personal and professional purposes, and will have real-world opportunities to demonstrate their learning.

**Accounting II** (1 year = 2 credits) GRADES 10-12 ELECTIVE
*PREREQUISITE: Accounting I*
RECOMMENDED: Introduction to Business, Innovative Marketing, and Entrepreneurship
*MAXIMUM ENROLLMENT: 20 per section*
Students enrolled into this coursework will continue to learn the many nuances of accounting by focusing on applying their knowledge gained in Accounting I toward new teachings which include managing assets and ledgers for a large facility, capital acquisition and management, managing inventory, accruals, deferrals, and reversals of assets, accounting for partnerships, and recordkeeping for internet sales. This coursework is intended to act as a capstone curriculum for students who desire to pursue accounting-based career paths and who are eager to deepen their understanding of banking, business financial management, and financial business management.

**AP COMPUTER SCIENCE PRINCIPLES** (1 year = 2 credits) GRADES 10-12 ELECTIVE
*PREREQUISITE: Computer Science Fundamentals, Algebra 1, Algebra 2 is recommended*
*MAXIMUM ENROLLMENT: 18 per section*
This course is offered at Shenandoah High School and online. This course continues the learning offered in Computer Science Fundamentals (CSF). Students will learn binary code, debugging, computer programming with java and Scratch, advanced problem solving, and practical code application. The course is designed with the goal of creating leaders in computer science fields and attracting and engaging those who are traditionally underrepresented with computing tools and multidisciplinary opportunities. Students are required to take the AP Computer Science Principles exam in May. Seniors planning to graduate a semester early cannot enroll in yearlong AP classes.

4132/33 **COMPUTER GRAPHICS** (1 semester = 1 credit) GRADES 9-12 ELECTIVE
*PREREQUISITE: none*
*MAXIMUM ENROLLMENT: 12 per section*
This is an introductory course that provides students with a basic understanding of the field of desktop publishing software and presentation software to create business publications and presentations for our school and local community. Additional topics may include design, word processing, and the use of extra equipment. Course work will include course demonstrations, laboratory exercises, and projects that are deadline oriented.

4074/75 **COMPUTER SCIENCE FUNDAMENTALS** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 24 per section*

This course introduces students to the foundational concepts of computer science. Students will explore opportunities in career paths which are rooted in computer science and application building and utilization. Students will learn to use computers and other devices in a responsible manner while understanding why machines behave the way they do. Skills emphasized in this course are problem solving and critical thinking, note taking, group work and independent study, as well as recent and current technological advancements around them. The course is designed with the goal of creating leaders in computer science fields and attracting and engaging those who are traditionally underrepresented with computing tools and multidisciplinary opportunities.

**ENTREPRENEURSHIP** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 24 per section*

Students will gain a basic understanding of what imagining, plotting, developing, and maintaining a business in today's economic climate is all about. Rooted in a sound understanding of what the business cycle is, students will additionally gain an understanding of taxation, insurances, models, investments, public speaking, portfolios, and professional presentation. Students will participate in project-based learning activities which are designed to simulate as closely as possible the methods of establishing a business in the real world.

4071/72 **INNOVATIVE MARKETING** (2 semester = 2 credit) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 24 per section*

This class will use a project-based learning approach wherein students design and establish marketing campaigns for their own fabricated business, along with the promotion and development of business-related opportunities and commercial offerings within the district and for school-based organizations. Students will learn the essential functions of marketing in today's world by studying businesses in the community and modeling from established successes in and around community-based businesses. Students will enlist the use of multiple forms of mass media and technology in order to assess interests and trend data, assisting them in developing marketing materials for local businesses, school organizations, and other groups in and around the community.

3773 **INTRODUCTION TO BUSINESS** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 24 per section*

Students develop skills relating to general business situations. The course concentrates on units dealing with the concepts and processes associated with successful entrepreneurship. Topics could also include budgeting, banking, credit, insurance, taxes,and living on your own**.** Business cycles and globalization is also covered.

# FAMILY & CONSUMER SCIENCE

3706 **CHILD DEVELOPMENT 1** (1 semester = 1 credit) GRADES 10-12 ELECTIVE

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 20 per section*

In this class, we will begin the study of principles of child growth and development. We will study the physical, intellectual, emotional, and social development of children. We will also examine the decision to parent and child guidance. You will also have the opportunity to observe and work with children outside of our classroom.

4061 **CHILD DEVELOPMENT 2** (1 semester = 1 credit) GRADES 10-12 ELECTIVE

*PREREQUISITE: Child Development 1*
*MAXIMUM ENROLLMENT: 20 per section*

This class will continue to study the principles of child growth and development that we began in Child Development 1. We will study the physical, intellectual, emotional, and social development of children. We will also examine principles of working with children, either as a caregiver or in a career, and other special topics related to children. You will also have the opportunity to observe and work with children outside of our classroom.

3703 **CULINARY ARTS 1** (1 semester = 1 credit) GRADES 10-12 ELECTIVE

*PREREQUISITE: Foods 1 & Foods 2*
*MAXIMUM ENROLLMENT: 20 per section*

This class will learn and prepare advanced culinary techniques and categories of foods. We will also investigate the culinary arts and food service industries. This class will have the opportunity to cook and be evaluated for your efforts by others.

4060 **CULINARY ARTS 2** (1 semester = 1 credit) GRADES 10-12 ELECTIVE

*PREREQUISITE: Foods 1, Foods 2, & Culinary Arts 1*
*MAXIMUM ENROLLMENT: 20 per section*

This class will continue the study of Culinary Arts 1 into advanced culinary techniques and categories of foods, as well as investigate the culinary arts and food service industries. We will discuss restaurant management and customer service. This class will also have the opportunity to cook for others and be evaluated for your efforts by others.

3709 **FAMILY RELATIONS** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*
*MAXIMUM ENROLLMENT: 20 per section*

Family is the building block of society. This class will give you an in-depth look at families today. We will study the structure of family, the characteristics of a good family, the development of a family, and challenges they may face. You will work to develop the skills to become a positive family member and to build positive relationships for all aspects of life. This class is a good introduction for students interested in human services and helping careers.

3701 **FOODS 1** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*
*MAXIMUM ENROLLMENT: 20 per section*

This class will teach you the basics about food preparation, nutrition and the role that food plays in our lives. We will cover topics such as personal and food safety, kitchen basics, various aspects of careers working with food and nutrition, and much more. You will have the opportunity to practice your skills in the kitchen throughout the semester.

3702 **FOODS 2** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

*PREREQUISITE: Foods 1*
*MAXIMUM ENROLLMENT: 20 per section*

This class will teach you to prepare different types of basic foods. We will cover units including breads, pies and pastries, cakes, cookies, and much more. We also look more into nutrition related to weight management and eating habits, as well as meal planning. You will have the opportunity to practice your skills in the kitchen throughout the semester.

3710 **HOUSING & INTERIORS** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*
*MAXIMUM ENROLLMENT: 20 per section*

In this class, we will discuss housing basics and the role of housing in our lives. The topics we will cover include influences on housing choices, types of housing, the history of housing, architectural elements, floor plans and room arrangements, design, renting and owning, and more. You will have many opportunities to express your creativity in this class.

3705 **INDEPENDENT LIVING** (1 semester = 1 credit) GRADES 11-12 ELECTIVE

*PREREQUISITE: none*
*MAXIMUM ENROLLMENT: 20 per section*

This class will learn about the knowledge and skills you need to become an independent and successful adult. You will learn about values, goals, resource management, decisions related to consumerism, balancing roles, self-care, "adulting," and much more. Many projects and hands-on activities will be a part of this class in order to teach you how to live on your own.

# FINE ARTS

3638 **3-D SCULPTURE** (1 semester = 1 credit) GRADES 10-12 ELECTIVE

*PREREQUISITE: Intro to Ceramics*
*MAXIMUM ENROLLMENT: 14 per section*

Using methods taught in Intro to Ceramics, students will create sculptures out of many types of media such as clay, paper mache, wire, and found objects.

3639 **ART PORTFOLIO** (1 semester = 1 credit) GRADE 12 ELECTIVE

*PREREQUISITE: all offered art classes & teacher approval*
*MAXIMUM ENROLLMENT: none*

Students must have taken all arts classes: Intro to Drawing & Painting, Drawing, Painting, Intro to Ceramics, & 3D Sculpture. This may only be taken as a senior and the teacher must sign students into the class. This is a self-directed class to build a college portfolio. Students will have a select number of pieces to show at the contest.

3629/30 **BAND** (1 year = 2 credits) GRADES 9-12 ELECTIVE

*PREREQUISITE: 7/8 Band or summer lessons*
*MAXIMUM ENROLLMENT: none*

Courses in Band are intended to develop technique for playing brass, woodwind, and percussion instruments, marching style and to cover appropriate band literature styles for marching and concert performances.

3631/32 **CHOIR** (1 year = 2 credits) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*
*MAXIMUM ENROLLMENT: none*

Choir is a large choral performing group available for all high school singers, regardless of previous experience. This ensemble focuses on part-reading and singing, music terminology, large group ensemble performance technique, tone, vocal technique, and vocal health. It offers a variety of vocal music literature and represents the school in public concerts, contests, and school performances. Choir meets daily. Students can be in both instrumental and vocal music.

4069/70 **DIGITAL STREAMING** (1 year = 2 credits) GRADES 9-12 ELECTIVE

*PREREQUISITE: teacher approval*
*MAXIMUM ENROLLMENT: 15 per section*

This course is designed to develop students' skills in yearbook production. Students will use technology as a tool to communicate, collaborate, publish, and interact with peers, experts, and other audiences. Students will gain skills in the following areas: page design, publishing techniques, copywriting, editing, photography, time management, teamwork, marketing, and leadership skills. Students are tasked with producing a timeless, creative, and innovative publication which will record our school's community, memories, and events.
*Students involved must be willing to attend events and games outside of the school day to take photographs.

3637 **DRAWING** (1 semester = 1 credit) GRADES 10-12 ELECTIVE

*PREREQUISITE: Intro to Drawing & Painting*
*MAXIMUM ENROLLMENT: 18 per section*

Students will study the principles of design and create works of art in a variety of media. Human and animal forms will be studied. Students will create a sketchbook and work on developing a personal style.

3614 **INDIVIDUAL VOCAL TECHNIQUE/CHAMBER CHOIR** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

*COREQUISITE: enrollment in Choir, teacher placement/audition*
*MAXIMUM ENROLLMENT: none*

During the first quarter, the students involved in Individual Vocal Techniques will be concentrating their efforts on developing vocal techniques consistent with the following: Independent a capella singing in SATB quartets, development of musicianship, and high-level thinking and performance skills. If students are auditioning for All-State, they must be in this class. Second quarter, as well as second semester, the students will continue working as a performance group (chamber choir). This auditioned choir will work on high level pieces of music.

4026 **INTRO TO CERAMICS** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*
*MAXIMUM ENROLLMENT: 15 per section*

Students will learn four methods of building in ceramics: pinch pottery, coil pottery, slab and throwing on the potter's wheel. In addition, students will learn printmaking techniques such as mono printing, embossing, and linoleum print.

4025 **INTRO TO DRAWING & PAINTING** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*
*MAXIMUM ENROLLMENT: 20 per section*

Students will learn the elements of design, and learn basic drawing and painting techniques through pencil, color pencil, charcoal, ink, watercolor and acrylic paints. The grid system will be taught so students can properly enlarge a photograph.

4109 **MUSICAL THEATER** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*
*MAXIMUM ENROLLMENT: 24 per section*

The Musical Theater course provides students with the opportunity to explore and/or participate in various aspects of musical theater, including auditioning, singing, acting, and dancing. The course reviews the history and evolution of musical theater, its literature and artists, and styles of composition and vocal presentation. Students work collaboratively on performances, including solo, duet, and ensemble work. Curriculum and course work for this class changes every year depending on the high school musical being produced.

3610 **PAINTING** (1 semester = 1 credit) GRADES 10-12 ELECTIVE

*PREREQUISITE: Intro to Drawing & Painting*
*MAXIMUM ENROLLMENT: 15 per section*

Painting students expand their use of the elements and principles of design studied in Intro to Drawing and Painting. Students will explore a variety of painting media as they work with more complex ideas, and depth of issues, form and concept.

# FOREIGN LANGUAGE

*Please note:*
*--Spanish is not required for graduation from Shenandoah High School. However, families need to be aware of the college admission and completion/graduation requirements; while 2 years often is enough for college admission, some students then would take additional language classes while in college.*
*--Students who speak Spanish at home may be placed in different levels at different times than other students, based upon their skill level and participation in class. They will be required to complete coursework appropriate to their own skill level.*
*--All students in Spanish 3 & 4 will be tested for proficiency in April. English-proficient students also demonstrating at least an Intermediate Mid-level proficiency in Spanish will be recognized with the Iowa Seal of Biliteracy upon graduation.*

3621/22 **SPANISH 1** (1 year = 2 credits) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*
*MAXIMUM ENROLLMENT: 24 per section*

This Spanish class is for beginners. Students will experience a high volume of input in Spanish, both in listening and reading formats, so each student is expected to do their part with regards to paying attention and participating actively in discussions and activities. The teacher/class will read at least one chapter book each year, and students will be assessed over the novel. The teacher will also read at least one novel aloud to the class each year, and students will be assessed over the novel. Expect to provide short, simple answers in spoken and written format on topics relating directly to the student. These could include describing people, family, clothing, and interests/activities. The midterm and final have multiple parts to assess the three standards, and a student must complete all parts of both in order to move to the next semester or level. Target proficiency level: Novice High - communicates in lists and mostly short phrases, with some sentences on highly familiar topics. Typically uses words or phrases memorized from class. *Note: if the student does not have a strong enough base to be successful in Spanish 2, the student may be required to repeat Spanish 1 regardless of their final semester grades.*

3623/24 **SPANISH 2** (1 year = 2 credits) GRADES 10-12 ELECTIVE

*PREREQUISITE: both semesters of Spanish 1 with a C or higher*
*MAXIMUM ENROLLMENT: 24 per section*

The goal for Spanish 2 is to strengthen the skills begun in Spanish 1. Students will continue experiencing a high volume of input in Spanish through listening and reading. Students read often in Spanish, and reading may include a class chapter book with related assessments. Expect to provide a little longer answers in spoken and written format on topics such as food, health, and weekly activities, although topics may change based on class interest. Excellent attendance, attention, and active class and small group participation are expected. The midterm and final have multiple parts to assess each of the three standards, and a student must complete all parts of both in order to move to the next semester or level. Target proficiency level: stronger Novice High, with some Intermediate Low - is able to communicate more often with complete sentences and is able to begin explaining familiar topics in depth. Recombines chunks learned in class to create new things.

3625-28 **SPANISH 3 & 4** (1 year each = 2 credits each) GRADES 11-12 ELECTIVE

*SPANISH 3 PREREQUISITE: all semesters of Spanish 1 & 2 with a C or higher*
*SPANISH 4 PREREQUISITE: all semesters of Spanish 1, 2, & 3 with a grade of C or higher*
*MAXIMUM TOTAL ENROLLMENT: 24 per section*

Spanish 3 and 4 are taught together, so content changes every other year. Students use multiple authentic and for-learners resources to further develop their reading and listening skills and writing and speaking are practiced in multiple activities throughout the year. Students are expected to interact in Spanish as much as possible. A wide variety of topics may be covered, and novels, movies/videos/TV series in Spanish may be used. Excellent attendance, active attention and participation in class and small-group discussions, the ability to use the imperfect language acquired without over-using translators, and the drive to use Spanish outside of the class are all necessary skills for achieving proficiency. The midterm and final have multiple parts to assess the three standards, and a student must complete all parts of both in order to advance. All students will be tested for proficiency in April, and this test serves as their final. Target proficiency level is Intermediate Low-Mid for Spanish 3 and Intermediate Mid for Spanish 4, where students can speak in depth on numerous topics and multiple time frames (past, present, future).

# HEALTH SCIENCE

4027/59 **INTRODUCTION TO HEALTHCARE** (1 year = 2 credits) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 24 per section*

The Introduction to Healthcare class provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the healthcare industry. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. The health science industry comprises diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology, and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions. **This course is recommended prior to enrolling in a health science course at IWCC (including Medical Terminology and Certified Nurse Assistant courses).

4030 **IWCC CERTIFIED NURSE ASSISTANT** (1 semester = 1.5 HS & 3.0 IWCC credits) GRADES 11-12 ELECTIVE

*RECOMMENDED PREREQUISITE: Introduction to Healthcare & Medical Terminology*

*MAXIMUM ENROLLMENT: 10 per section, preference given to seniors*

This course is designed to provide knowledge and skills to work in a nursing home, home health care agency, or group home and/or hospital. The course is held in a classroom/lab and a minimum 30 hours of clinical practice will be in a nursing home. You will give patient care under the supervision of your instructor. During the course, healthcare entry level skills and behaviors to see employment will be covered: communication, interaction, ethical/legal principles, safety measures, personal hygiene, and special procedures. Course requirements include out-of-pocket costs, criminal/abuse background check, tuberculosis (TB) skin testing, and vaccines as required by our clinical site. This course is intended to prepare students for the Direct Care Worker Registry written and skills exam. The exams are to obtain certification and be eligible for employment as required by State Legislation. *It is a recommended course and a starting point for anyone considering a healthcare career; it is typically a prerequisite for admission to nursing programs. This is Iowa Western Community College's course #HSC 172.

3815 **IWCC MEDICAL TERMINOLOGY** (1 semester = 1.0 HS & 2.0 IWCC credits) GRADES 11-12 ELECTIVE

*RECOMMENDED PREREQUISITE: Introduction to Healthcare*

*MAXIMUM ENROLLMENT: 20 per section*

Medical Terminology studies terms used in medicine. This course gives students a working knowledge of the roots, prefixes and suffixes of commonly used medical terms. Emphasis centers on the correct spelling and pronunciation of the vocabulary. This is Iowa Western Community College's course #HSC 113.

# INDUSTRIAL TECHNOLOGY

4064/65 **CARPENTRY** (1 year = 2 credits) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 10 per section*

This is the first in a sequence of courses that prepares individuals to layout, fabricate, erect, install, and repair wooden structures and fixtures using hand and power tools. Includes instruction in common systems of framing, construction materials, blueprint reading, concrete placing, siding, and mechanical systems.

3781 **CONSTRUCTION TECHNOLOGY** (1 year = 6 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: Carpentry or Wood Manufacturing*

*MAXIMUM ENROLLMENT: 8 per section or teacher approval*

The goal of this class is to provide students with a basic knowledge of carpentry and related skills used in the residential construction industry. Residential construction involves the building or remodeling of homes, apartments and similar structures. The program provides the opportunity to learn and apply themselves to all phases of the industry with an emphasis on carpentry and the related areas of HVAC, blueprint reading and mathematics. This class meets for two periods, homeroom, & power hour each semester

3725 **DRAFTING 1** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 8 per section*

This is an introductory course for students in the techniques of technical drawing. This course serves as a general education purpose to help students develop their capacity to analyze, organize and accurately express them graphically. Also serves as a preparatory class for students wishing to prepare themselves for gainful employment in drafting or plan to continue their education in engineering or a technical/trade school. Board drafting will be followed by engineering and bridge building.

**DRAFTING 2** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

*PREREQUISITE: Drafting*

*MAXIMUM ENROLLMENT: 8 per section*

In Drafting 2, students will learn and use computer aided drafting (CAD) and CNC machining to create and produce projects. During the CAD section, students will use the Solid Works program to create 2- and 3-dimensional drawings of objects and the Chief Architect program to design, draw, and landscape a complete home. During the CNC machining section, students will program code and produce wood parts and projects made from the CNC router. Students will use the same program to engrave lettering and art images in wood, leather, aluminum, and plastic materials from the CNC laser.

4062 **ENTRY LEVEL METALS & WELDING** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 8 per section*

These courses introduce students to the properties, uses and applications of various metals. Welding courses provide experience in various processes used to join and cut metal (such as oxyacetylene, shielded metal arc, metal inert gas and the proper use of technique. Courses often included instruction interpreting blueprints or other types of specifications.

4063 **INTERMEDIATE METALS & WELDING** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

*PREREQUISITE: Entry Level Metals & Welding*

*MAXIMUM ENROLLMENT: 8 per section*

These courses introduce students to the properties, uses and applications of various metals. Welding courses provide experience in various processes used to join and cut metal (such as oxyacetylene, shielded metal arc, metal inert gas and the proper use of technique and safety practices. Courses often included instruction interpreting blueprints or other types of specifications.

4067/68 **WOOD MANUFACTURING** (1 year = 2 credits) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*
*MAXIMUM ENROLLMENT: 15 per section*

This course is an introduction to mass production of products. Students will use scientific and mathematical applications through relevant mechanical topics to produce a variety of plastic, metal, and wood products. Areas of study in this course include the history and operational structure of industry, lean manufacturing principles, use of CNC practices, product development, precision measurement, and quality management. In addition, students will complete numerous lab-based and project-based activities. Students will develop 21st century skills to increase employability. This course is a prerequisite for a Pella internship taken as upperclassmen.

# LANGUAGE ARTS

3323 **ACADEMIC COMP & RESEARCH** (1 semester = 1 credit) GRADES 11-12 ELECTIVE

*PREREQUISITE: Language Arts 3*
*MAXIMUM ENROLLMENT: 24 per section*

This composition and research course is designed primarily for students whose future plans include post-secondary college/university education. It builds upon previously learned writing skills. Reinforcing the logic and critical thinking skills that accompany good writing, this course provides continued and advanced instruction in writing for a variety of purposes and audiences. Writings may include but are not limited to argumentation, comparison-contrast, description, and personal narration. Literary research is the main focus for the research component.

4110/11 **ADVANCED LANGUAGE ARTS** (1 year = 2 credits) GRADES 10-12 ELECTIVE

*PREREQUISITE: Language Arts 1 & teacher approval*
*MAXIMUM ENROLLMENT: 24 per section*

Advanced Language Arts is a course dedicated to challenging students with exploring complex literary and non-fiction text from a variety of periods, disciplines, and rhetorical contexts. Through these texts studies, students will gain an understanding of rhetorical strategies, author purposes, character, theme, tone, and style. Using these texts as models, students will write narrative, expository, analytical, and synthesis essays that explore a variety of topics. Students will also receive instruction in grammar concepts to improve overall writing. The course aims to develop critical thinking, close reading, and advanced writing skills that will prepare a student for Advanced Placement courses.

3883/84 **AP LANGUAGE & COMPOSITION** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: Advanced Language Arts & teacher approval*
*MAXIMUM ENROLLMENT: 15 per section*

This course is offered at Shenandoah High School and online. The AP English Language and Composition 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. Students are required to take the AP English Language and Composition exam in May. Seniors planning to graduate a semester early cannot enroll in yearlong AP classes.

3307/3876 **AP LITERATURE & COMPOSITION** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: Advanced Language Arts & teacher approval*
*MAXIMUM ENROLLMENT: 15 per section*

This course is offered at Shenandoah High School and online through Iowa Online Advanced Placement Academy (IOAPA). The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the way writers use language to provide both meaning and pleasure. As they read, students 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. Students are required to take the AP English Literature and Composition exam in May. Seniors planning to graduate a semester early cannot enroll in yearlong AP classes.

3303 **COMMUNICATIONS** (1 semester = 1 credit) GRADES 10-12 ELECTIVE

*PREREQUISITE: none*
*MAXIMUM ENROLLMENT: 24 per section*

Communications offers students the opportunity to learn how to employ oral skills in formal and informal situations. Students will learn the proper presentation techniques and organization of a variety of types of speeches. Students will also learn effective verbal and nonverbal communication skills in interpersonal communication situations. Additional study will be based on effective organization techniques and strategies, gathering information from a variety of sources, and evaluating and crediting sources.

3311 **CREATIVE WRITING** (1 semester = 1 credit) GRADES 10-12 ELECTIVE

*PREREQUISITE: Language Arts 2*
*MAXIMUM ENROLLMENT: 24 per section*

The focus of this course will be on being active members of a writing community. This course uses a writer's workshop approach to help you be more comfortable with the writing and revision processes. Your fellow classmates will become your peer editors. By the end of the course, you will have created your own digital portfolio of writing. All writing completed in this course will be narrative, or story-based, and we'll be working to improve your skills in individual areas related to narration: characterization, development of settings and themes, use of description, specific word choice, etc.

4095/96 **LANGUAGE ARTS 1** (1 year = 2 credits) GRADE 9 REQUIREMENT

*PREREQUISITE: none*
*MAXIMUM ENROLLMENT: 24 per section*

Language Arts 1 builds upon the student's prior knowledge of grammar, vocabulary, word usage, reading strategies, and the mechanics of writing, and includes extensive reading and writing. Students study various literary genres and complete related writing and vocabulary exercises.

4097/98 **LANGUAGE ARTS 2** (1 year = 2 credits) GRADE 10 REQUIREMENT

*PREREQUISITE: Language Arts 1*
*MAXIMUM ENROLLMENT: 24 per section*

Language Arts 2 builds on the student's prior knowledge of grammar, vocabulary, word usage, reading strategies, and the mechanics of writing through extensive reading and writing. Students study various literary genres and complete related writing and vocabulary work.

4099/4100 **LANGUAGE ARTS 3** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: Language Arts 2 or teacher approval*
*MAXIMUM ENROLLMENT: 24 per section*

Language Arts 3 builds upon the student's prior knowledge of grammar, vocabulary, word usage, reading strategies, and mechanics of writing, and includes extensive reading and writing. Students study informational and literary texts and complete related writing and vocabulary exercises to examine the influence of authors and their works.

3321 **LANGUAGE ARTS DEVELOPMENT** (1 year = 2 credits) GRADES 9-12 ASSIGNED

*PREREQUISITE: can only be taken concurrently with another Language Arts course; teacher approval required*
*MAXIMUM ENROLLMENT: 15 per section*

Language Arts Development is designed for the teacher to select and teach only the appropriate standards corresponding to a student's grade level and/or instructional needs in relation to other Language Arts courses in which the student is enrolled. The curriculum of the course will vary for each enrolled student, but major areas of focus will include reading comprehension and strategies, grammar usage and conventions, vocabulary acquisition, study skills and strategies, and writing skills.

3312 **NOVELS** (1 semester = 1 credit) GRADES 10-12 ELECTIVE

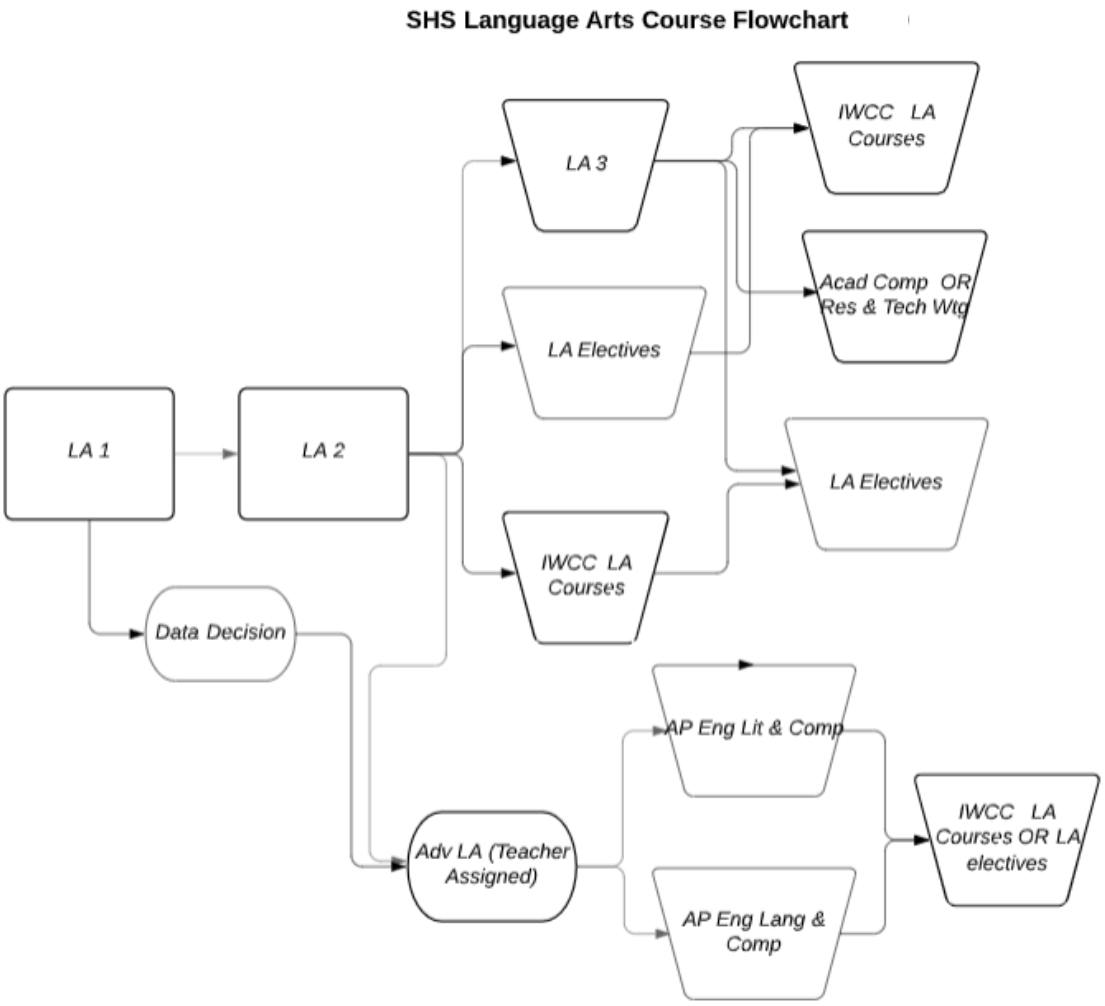
*PREREQUISITE: Language Arts 2*
*MAXIMUM ENROLLMENT: 24 per section*

This course emphasizes the novel as a literary form. Students will evaluate and analyze a number of literary novels through personal experience, knowledge of literary terminology, discussion, and activities. Writing, vocabulary, reading comprehension, and project-based exercises are a sampling of the activities students will engage in through their study of various works.

4122 **SPEECH** (1 semester = 1 credit) GRADES 10-12 ELECTIVE

*PREREQUISITE: Language Arts 1*
*MAXIMUM ENROLLMENT: 24 per section*

Speech focuses on the application of written and oral communication skills through a variety of formal and informal experiences. This is a performance-based course and emphasizes effective interpersonal and team-building skills. The course may also involve the study of how interpersonal communications are affected by stereotypes, nonverbal cues, vocabulary, and stylistic choices. This course will help students become effective communicators both on stage and off.




# MATHEMATICS

3120/21 **ALGEBRA 1** (1 year = 2 credits) GRADES 9-12 REQUIREMENT

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 24 per section*

This course is designed to teach fundamental concepts of Algebra in depth, preparing students for future math and/or related courses. The course includes a study of equations, systems, functions, and statistics. A grade of C- or higher is necessary to advance to Geometry.

3125/26 **ALGEBRA 2** (1 year = 2 credits) GRADES 9-12 REQUIREMENT

*PREREQUISITE: Geometry (C- or above 2nd semester)*

*MAXIMUM ENROLLMENT: 24 per section*

This course introduces many new concepts and is geared for the college bound student. An understanding of the principles of algebra and problem-solving skills is emphasized. Topics covered include polynomials, sequences, exponential functions, logarithmic functions, rational and radical functions, functions/inverses, trigonometry, and statistics.

4120/21 **CALCULUS** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: Trigonometry/Pre-Calculus*
*MAXIMUM ENROLLMENT: 15 per section*

This Calculus course is intended for students who have attained pre-calculus objectives through the prerequisite course Trigonometry/Pre-Calculus. In this course the student will study limits, derivatives, applications of derivatives, and integrals. The use of graphing calculators is a key component in this class. It is strongly encouraged to purchase your own graphing calculator for use in this course.

3127/28 **GEOMETRY** (1 year = 2 credits) GRADES 9-12 REQUIREMENT

*PREREQUISITE: Algebra 1 (C- or above 2nd semester)*
*MAXIMUM ENROLLMENT: 25 per section*

This course will emphasize an abstract and formal approach to geometry. This will include topics such as properties of plane and solid figures; deductive methods of logic; geometry as an axiomatic system including the study of postulates, theorems, and form congruence, similarity, parallelism, and perpendicularity; and rules of angle measurement in trigonometry, coordinate geometry, and transformational geometry.

4145 **IWCC Business & Financial Math (MAT 711)** (1 semester=1.5 HS & 3.0 IWCC) GRADES 11-12 Elective

*MAXIMUM ENROLLMENT: 15 per section*

Business and Financial Mathematics deals with basic mathematical skills used in business operations. Topics include cash and trade discounts, markups, overhead applications, commissions, simple interest, compound interest, annuities, business and consumer loans, depreciation, inventory, payroll, and financial statements.

4044 **IWCC Technical Mathematics (MAT 743)** (1 semester=1.5 HS & 3.0 IWCC) GRADES 11-12 Elective

*MAXIMUM ENROLLMENT: 15 per section*

Technical Math includes operations with real numbers, use of fractions, ratios, measurement conversion, algebraic equations, functions, geometry, and right angle trigonometry. Applications are designed to the program specific needs that students encounter in industrial settings.

3864 **MATH DEVELOPMENT** (1 semester = 1 credit) GRADES 9-12 ASSIGNED

*PREREQUISITE: teacher approval*
*MAXIMUM ENROLLMENT: 15 per section*

Math Development is designed for the teacher to select and teach only the appropriate standards corresponding to a student's grade level and/or instructional needs in relation to other Mathematics courses. The curriculum of the course will vary for each enrolled student, but major areas of focus usually include proportional relationships, linear relationships, solving equations and inequalities, basic geometry topics, probability, and statistics.

3114 **STATISTICS** (1 semester = 1 credit) GRADES 10-12 ELECTIVE

*PREREQUISITE: Algebra 2*
*MAXIMUM ENROLLMENT: 24 per section*

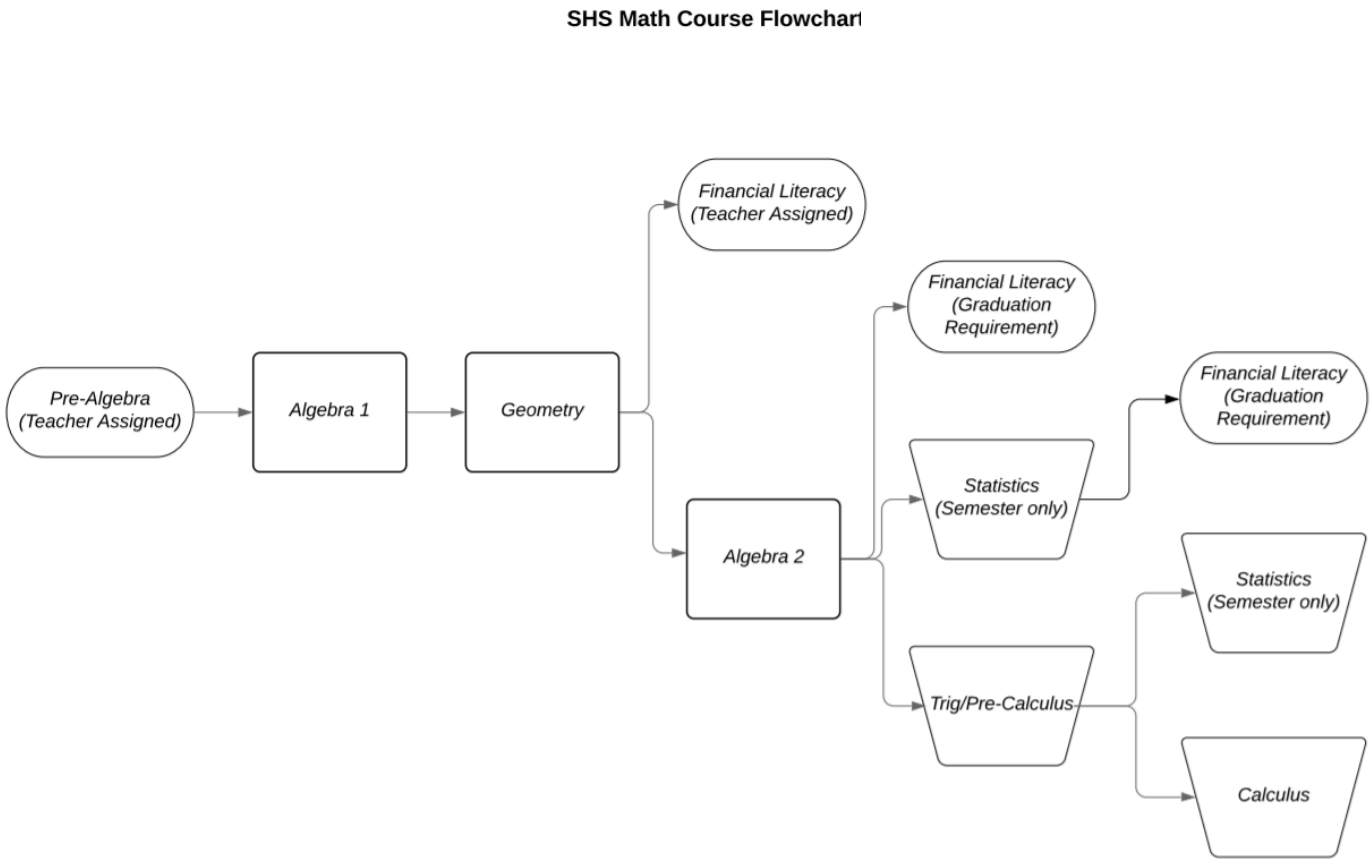
In this course, students will be introduced to the major concepts of probability, interpretation of data, and statistical problem solving. Students will learn the course concepts through hands-on experimentation and investigation. They will analyze existing data as well as data collected through a survey, observational study or experiment. They will then display the data in different ways, analyze it, and draw conclusions based on the results. The four main components of the course are: exploring data, data collection, probability, and inference.

4105/06 **TRIGONOMETRY/PRE-CALCULUS** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: Algebra 2*

*MAXIMUM ENROLLMENT: 24 per section*

Students will review the basics of trigonometry and use these foundations to solve right triangles, use the unit circle to come more aware of the periodicity of the trig functions, graph trig functions based on scale changes and translations, develop equations of trigonometric functions from graphs, and model using trigonometric functions. Next, students will explore the pre-calculus topics of polynomial functions, rational functions, exponential functions, logarithmic functions, and matrices.



# MENTORING

4056/0457 **MUSTANG MENTOR** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: no office referrals, no violation of good conduct policy, good attendance (minimal absences & tardies), teacher approval*
*MAXIMUM ENROLLMENT: 25*

This course will involve one-on-one or small group mentoring/tutoring within a preschool, elementary, or middle school classroom. Working in a Life Skills classroom is also an option for this course with special acceptance from a life skills instructor. The Mustang Mentor will work with a student or students with guidance from the classroom teacher or supervisor. The focus of the course will be to develop skills in interaction. The goals of the course are to help younger students improve grades, improve learning attitudes, demonstrate responsibility, develop self-motivation and confidence, work well with peers and staff, increase self-esteem, and prepare for the next grade level. Skills needed to be successful in this class: patience, responsibility, persistence, reliability, consistency, ability to communicate well, take initiative, interact strongly and to role model positive learning skills and techniques. Exceptional attendance and communication are high priorities for this course. Specific expected outcomes: enhance ability to work with and relate to younger students, strengthen ability to communicate with others, learn and develop techniques to assist and motivate younger students, strengthen ability to take initiative and to be assertive. Career pathways: Education, Social Services, Human Services, Counseling, Psychology, and Sociology.
Students may enroll in Mustang Mentoring one period per semester and may take the course more than once.

# MULTI-OCCUPATIONAL CAREERS

3736/37 **AUTO MECHANICS TECHNOLOGY 1** (1 year = 2 credits) GRADES 10-12 ELECTIVE

*PREREQUISITE: none*
*MAXIMUM ENROLLMENT: 8 per section*

Automotive Mechanics/Technology 1 is a course of fundamentals that covers passenger car construction, principles of operation, and basic service procedures. This is the foundation on which a sound, thorough knowledge of auto mechanics is based. Once these fundamentals are learned, know how through experience will enable the student to diagnose trouble and perform needed repairs.

3738/39 **AUTO MECHANICS TECHNOLOGY 2** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: Auto Mechanics 1*
*MAXIMUM ENROLLMENT: 8 per section*

Automotive Mechanics/Technology 2 is a course that advances the knowledge gained in Automotive Mechanics/Technology 1 which covered passenger car construction, principles of operation and basic service procedures. Students will gain further knowledge through experience which will enable the student to diagnose trouble and perform needed repairs.

4032/33 **AUTO MECHANICS TECHNOLOGY 3** (1 year = 2 credits) GRADE 12 ELECTIVE

*PREREQUISITE: Auto Mechanics 1 & 2*
*MAXIMUM ENROLLMENT: 8 per section*

Automotive Mechanics/Technology 3 is a course that advances the knowledge gained in Automotive Mechanics/Technology 2 which covers passenger car construction, principles of operation and basic service procedures. Students will gain further knowledge through experience which will enable the student to diagnose trouble and perform needed repairs.

# PHYSICAL EDUCATION / HEALTH

3616 **HEALTH** (1 semester= 1 credits) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 24 per section*

Students in this course have an opportunity to develop skills related to their total wellness. Students will work on all levels of wellness: social, mental, and physical. Topics include: Personality, Self-Esteem, Emotions, Managing Stress, Mental Disorders, Suided, Family Relationships, Building Healthy Peer Relationships, Preventing Violence, Alcohol, Tobacco, and Preventing Drug Abuse.

4172 **HEALTH 2** (1 semester= 1 credits) GRADES 9-12 ELECTIVE

*PREREQUISITE: Health 1*

*MAXIMUM ENROLLMENT: 14 per section*

Students in this course have an opportunity to develop skills related to their total wellness. Students will work on all levels of wellness: social, mental, and physical. Topics include: Food & Nutrition, Making Healthy Food Choices, Digestion & Excretion, Movement & Coordination, Cardiovascular & Respiratory Health, Exercise & Lifelong Fitness, Personal Care, Safeguarding the Public, A Healthy Community & Environment,and Preventing Injuries.

4161 **STRENGTH AND CONDITIONING** (1 semester= 1 credits) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 24 per section*

Strength and Conditioning is a one-semester class that can be taken year-round. This class is offered for credit during Zero Hour as well as throughout the day. Strength and Conditioning focuses on general fitness, weight training, speed, agility, and plyometric principles to enhance students' overall wellness and athletic development. Weight training sessions will take place four times per week with a recovery day included. Students will work in groups and independently to achieve personal and daily goals. There will be pre-and post-testing of core lifts and speed timing. In addition to strength training, students will participate in various sports, fitness-based games, and activities on recovery days. Activities will range from team to individual sports throughout the semester.

3635/36 **PHYSICAL EDUCATION** (1 semester = 1 credit) GRADES 9-12 REQUIREMENT

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 24 per section*

In Physical Education class we focus on strength and conditioning principles to enhance the overall fitness level of students. We use a variety of weight training and functional fitness exercises to increase strength, power, and speed. Weight training sessions will take place 3 times per week. Students will have individualized strength plans on Teambuilder to help them reach their goals. There will be pre- and post-testing of core lifts and speed timing. In addition to strength training, students will also participate in a variety of sport and fitness-based games and activities. Activities will range from team to individual sports two times per week throughout the semester.

# SCIENCE

3224/25 **ANATOMY & PHYSIOLOGY** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: successful completion of Biology*

*MAXIMUM ENROLLMENT: 24 per section*

Essential principles of human anatomy and physiology are presented, including basic chemistry, cell and tissue studies, and an overview of all the body systems. First semester of a two-semester sequence deals with the structure and function of the human body and mechanisms for maintaining homeostasis within it. The class includes the study of cells, tissues, and the integumentary system. Second semester is a continuation of the study of the structure and function of the human body and the mechanisms for maintaining homeostasis within it. The skeletal, muscular, nervous, cardiovascular, and urinary systems are included. Laboratory dissection will be used to relate structures to those of humans.

3226/27 **AP CHEMISTRY** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: Chemistry*

*MAXIMUM ENROLLMENT: 15 per section*

This course is offered at Shenandoah High School and online. Chemistry is the study of the properties and structure of matter. The AP Chemistry course covers the same content covered in two semesters of general chemistry at a college level. Successful completion of high school chemistry is a prerequisite for AP Chemistry. In AP Chemistry, students will expand their knowledge on, among other topics, the structure of atoms, chemical bonding, chemical reactions, stoichiometry, gas laws, solution chemistry, thermochemistry, reaction kinetics, electrochemistry, equilibrium, acids and bases, and more. The course is also designed to replicate the same experience as that of college chemistry laboratory course. Students will spend time doing in-depth experiments and write college level quality lab reports. Using the history of scientific theory, science textbooks, lab investigations, and research, students will become even more scientifically literate in chemistry. Not only will students listen to lectures, but they will participate in brainstorming, cooperative learning, guided practice, inquiry, and note-taking. Students will also use some memorization, graphic organizers, research, and technology to aid their learning. The course is designed to improve the study skills that are necessary to be successful in rigorous college level courses. Students are required to take the AP Chemistry exam in May. Seniors planning to graduate a semester early cannot enroll in yearlong AP classes. This course will be offered at the high school every year.

3207 **ASTRONOMY** (1 semester = 1 credit) GRADES 9-12 ELECTIVE

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 24 per section*

Astronomy introduces you to the composition and structure of the universe. The content includes, but is not limited to, historical astronomy, astronomical instruments, the solar system, the earth/moon system, stars, galaxies, and theories about the origin and evolution of the universe.

3216/17 **BIOLOGY** (1 year = 2 credits) GRADE 10 REQUIREMENT

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 24 per section*

Biology is a two-term course offered to mainly sophomore students. Biology focuses on the study of life by examining the next generation science standards concepts: cellular biology, genetics, ecology, and evolution. The scientific process and laboratory skills are emphasized along with biology's connections to other scientific disciplines.

3218/19 **CHEMISTRY** (1 year = 2 credits) GRADE 11 REQUIREMENT

*PREREQUISITE: Science 1 & previous or concurrent enrollment in Algebra 1*
*MAXIMUM ENROLLMENT: 24 per section*

Chemistry is the study of the properties and structure of matter. Students will understand the structure of atoms, the usefulness of the periodic table, chemical bonding, chemical reactions, the mole, stoichiometry, and the gas laws. Using the history of science, science textbooks, lab investigations, and research, students will become scientifically literate in chemistry. Not only will students listen to lectures, but they will participate in brainstorming, cooperative learning, guided practice, inquiry, and note-taking. Students will also use some memorization, graphic organizers, research, and technology to aid their learning.

4162 **ENG. DESIGN & DEV. COMPETITION** (1 semester = 1 credits) GRADE 9-12 ELECTIVE

*MAXIMUM ENROLLMENT: 10 per section*

Engineering design and development competition course will provide students with the opportunity to design and build a robot to perform specific tasks that change each year. students will code robots to function both autonomously and manually. Students will test their designs at official competitions.

4173 **ENG. DESIGN & DEV. COMPETITION** (1 semester = 1 credits) GRADE 9-12 ELECTIVE

*MAXIMUM ENROLLMENT: 10 per section*

Engineering design and development competition course will provide students with the opportunity to design and build a robot to perform specific tasks that change each year. students will code robots to function both autonomously and manually. Students will test their designs at official competitions.

4173 **ENGINEERING DESIGN & DEVELOPMENT** (1 semester = 1 credits) GRADE 9-12 ELECTIVE

*MAXIMUM ENROLLMENT: 15 per section*

Engineering Design and Development courses provide students with the opportunity to apply engineering research principles as they design and construct a solution to an engineering problem. Students will be given a variety of challenges throughout the semester where they will be required to research, design, build, test, and rebuild their solutions to each challenge.

3222/23 **PHYSICS** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: Science 1 & previous or concurrent enrollment in Algebra 2*
*MAXIMUM ENROLLMENT: 24 per section*

Physics involves the study of the forces of nature affecting matter: motion, momentum, and the relationship between matter and energy. Using the history of science, science textbooks, lab investigation, and research, students will become scientifically literate in physics. Not only will students listen to lectures, but they will participate in brainstorming, cooperative learning, guided practice, inquiry, and note-taking. Students will also use some memorization, graphic organizers, research, and technology to aid their learning.

3214/15 **SCIENCE 1** (1 year = 2 credits) GRADE 9 REQUIREMENT

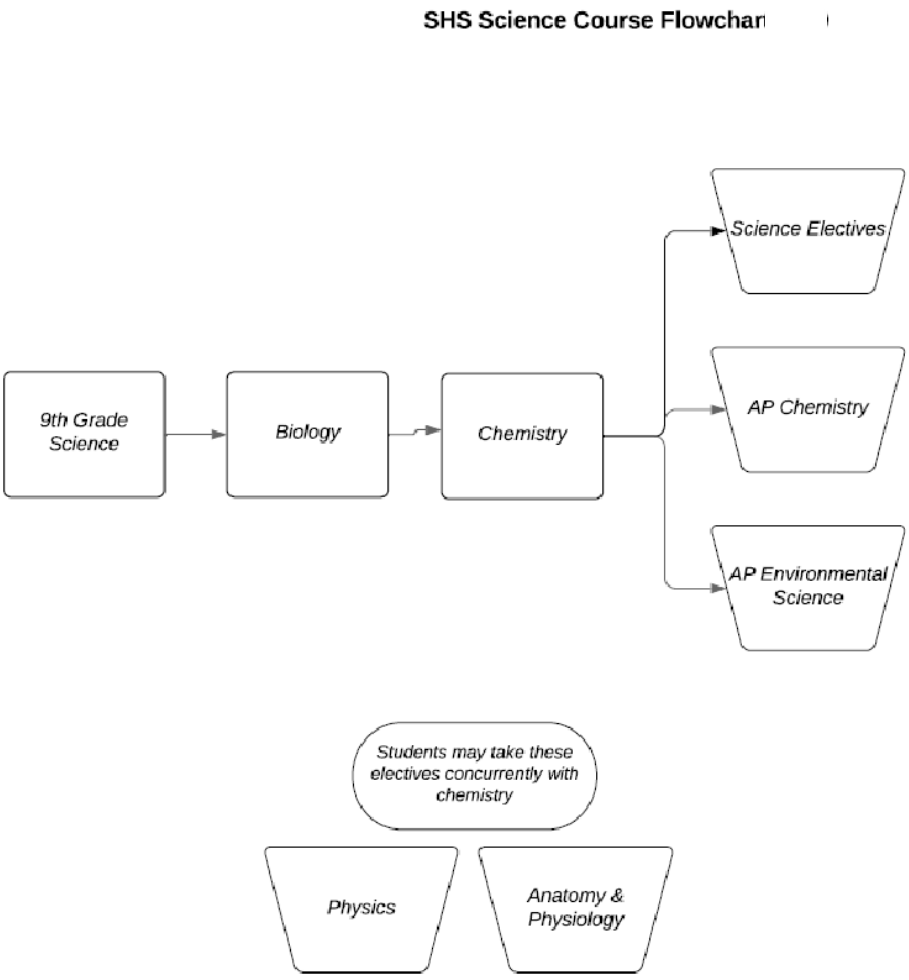
*PREREQUISITE: none*
*MAXIMUM ENROLLMENT: 24 per section*

Ninth Grade Science is an integrated science course. Students will learn among other topics: Earth Materials and Systems, Human Impacts, Global Climate Change, Natural Resources, Natural Hazards, Biogeology, The History of the Universe, Plate Tectonics, The Role of Water in Earth's Processes, Forces and Motion, and Energy.

4116 **ZOOLOGY** (1 semester = 1 credit) GRADES 10-12 ELECTIVE

*PREREQUISITE: Biology*
*MAXIMUM ENROLLMENT: 24 per section*

This course will cover the anatomy of vertebrate and invertebrate animals in the nine different phyla of the animal kingdom. Students will discover the behavioral patterns of animals in different biomes, track animal migration patterns, learn about their habitats, and anatomical features of organisms.




# SENIOR REQUIREMENT

4129 **FINANCIAL LITERACY** (1 semester = 1 credit) GRADE 12 REQUIREMENT

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 24 per section*

In this course, students will study financial literacy and personal finance concepts with real world, practical applications. All the concepts covered could be utilized by the 21st century consumer throughout their adult life. After completion of many of the topics of the course, a real-world project will summarize the concepts learned regarding the recently covered topic. Topics to be explored during the course include money management, banking services, payroll, taxes, credit & debt,

insurance, and investing. The class will also cover interest accumulation as it pertains to both savings and loans, and depreciation. All aspects of the course require a calculator for computation, thus students enrolling in the class are required to provide their own calculator.

4055 **PERSONAL & CAREER READINESS** (1 semester = 1 credit) GRADE 12 REQUIREMENT

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 24 per section*

This required course for all seniors allows students the opportunity to build their personal portfolio and learn a wide variety of job searching, job getting, and job keeping skills. Students are exposed to a variety of information on career and training options in pursuit of career decision making. Attention to life skills is also emphasized. Skills include CPR training, renting an apartment, buying a car, obtaining insurance, and understanding financial literacy to meet the state requirements.

# SOCIAL SCIENCES

4114/15 **AMERICAN GOVERNMENT** (1 year = 2 credits) GRADE 12 REQUIREMENT

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 24 per section, MINIMUM ENROLLMENT: 10 per section*

In the next year, students will study the history, concepts, principles, and theories of government by examining the United States as well as the history, concepts, principles, and theories of economics domestically and internationally. Each class section will create their own simulated country using a platform called, "Civic Mirror." We will examine the meaning of government at the local, state, and national level and how government is connected to all aspects of society. Students will use a modified version of the U.S. Constitution to create, judge, and enforce laws as we apply the real-life concepts to our classroom simulation. Students should expect to study a variety of topics and analyze how individuals and government affect those issues so they can understand the goal of citizenship and become aware of his/her rights and responsibilities as a member of society. Current events will be essential in guiding our study of government. This class will involve small and large group discussion, individual and group projects, and lectures with note taking.

**If circumstances arise that a student is unable to take 2nd semester government, they must complete the requirements to meet the standard to understand local, state, tribal institutions of government and how they interact and share power with the U.S. Government. This may include an online course or a self-paced unit assigned by the instructor.*

408283 **AP UNITED STATES HISTORY** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: U.S. History*

*MAXIMUM ENROLLMENT: 15 per section*

This course is offered at Shenandoah High School and online. 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; people; 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. Students are required to take the AP United States History exam in May. Seniors planning to graduate a semester early cannot enroll in yearlong AP classes.

3431 **ECONOMICS** (1 semester = 1 credit) GRADE 11-12 ELECTIVE

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 22 per section*

Economics is a semester-long course designed to introduce students to the basic principles of both micro and macroeconomics. We will explore economic concepts and their application to problems of both private and public policy. We will look at issues such as inflation, unemployment, poverty rates, and their possible causes and cures, and how they affect both individuals and the economy as a whole. Additionally, we will analyze the role of the government and the Federal Reserve in the US and global economies.

3406 **PSYCHOLOGY** (1 semester = 1 credit) GRADES 11-12 ELECTIVE

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 24 per section*

This course provides an overview of the scientific study of human behavior. Topics include history, methodology, biopsychology, sensation, perception, learning, motivation, cognition, abnormal behavior, personality theory, social psychology, and other relevant topics.

3405 **SOCIOLOGY** (1 semester = 1 credit) GRADES 11-12 ELECTIVE

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 24 per section*

This course introduces the scientific study of human society, culture, and social interactions. Topics include socialization, research methods, diversity and inequality, cooperation and conflict, social change, social institutions, and organizations. Throughout this course, students will learn by brainstorming, cooperative learning, guided practice, inquiry, memorization, research, and note-taking.

3415/16 **U.S. HISTORY** (1 year = 2 credits) GRADE 9 REQUIREMENT

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 24 per section*

This course will emphasize the overarching themes of United States history. Units that will be covered include America's founding values, constitutional goals, immigration, and factors that have influenced American history and culture.

4101/02 **WORLD HISTORY BEFORE 1900** (1 semester = 1 credit) GRADE 10 REQUIREMENT

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 24 per section*

World History promotes an emphasis on both historical content in historical thinking skills to prepare students with a strong foundation in significant history content, and with the skills necessary to apply historical thinking to any historical context. These are the skills required not only for college in career success, but for effective global citizenship. The content introduces students to the history and culture of ancient civilization through 1900.

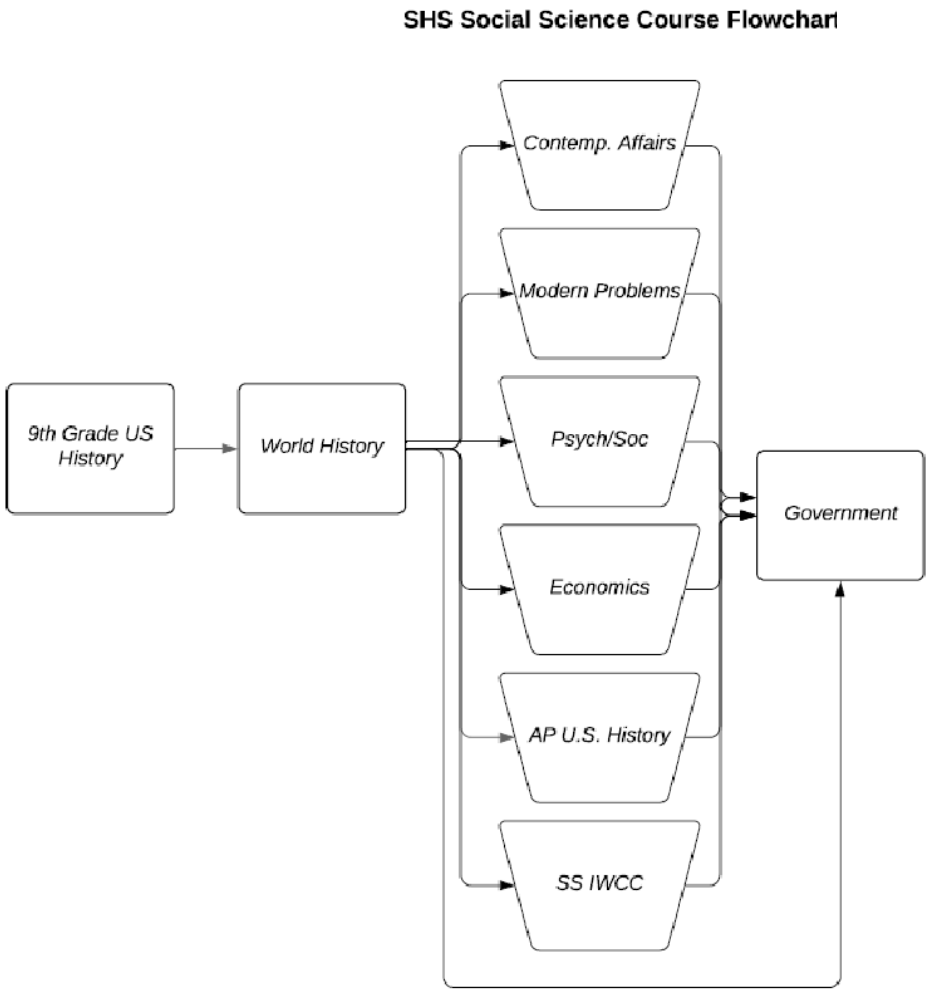
4103/04 **WORLD HISTORY AFTER 1900** (1 semester = 1 credit) GRADE 10 REQUIREMENT

*PREREQUISITE: none*

*MAXIMUM ENROLLMENT: 24 per section*

World History promotes an emphasis on both historical content in historical thinking skills to prepare students with a strong foundation in significant history content, and with the skills necessary to apply historical thinking to any historical context. These are the skills required not only for college and career success, but for effective global citizenship.

Western World History follows the narrative of regions of the world that are primarily located in Europe and the Western Hemisphere, but also extends into parts of the Middle East, Asia, and Africa. The content introduces students to the history and culture of ancient civilization through current issues and modern problems in the region.




# SPECIAL EDUCATION

3514/15 **GUIDED INSTRUCTION** (1 credit/semester for each period) GRADES 9-12 ASSIGNED

*PREREQUISITE: written in IEP*
*MAXIMUM ENROLLMENT: none*

Offered each term to students as indicated on their Individual Education Plan (IEP). Multiple sections of this class may be taken. Specially designed instruction will be provided as outlined in the student's IEP. The primary goal of the class is to assist students in developing skills that will enable them to meet the demands of the regular curriculum and help them to generalize situations and settings outside the school. This is a pass/fail course; no letter grades are given.

4057/58 **INDIVIDUAL WORK STUDY** (1 credit/semester for each period) GRADES 9-12 ASSIGNED

*PREREQUISITE: written in IEP*
*MAXIMUM ENROLLMENT: none*

This class is designed to give students exposure to various career opportunities according to their interests. Jobs are found by the special ed teacher and student based on career skill and interest. The student will receive credit upon completion of all requirements set by the employer and instructor. This is a pass/fail course; no letter grades are given.

3516/17 **LIFE SKILLS** (1 credit/semester for each period) GRADES 9-12 ASSIGNED

*PREREQUISITE: written in IEP*
*MAXIMUM ENROLLMENT: none*

This class develops the daily life skills that a student will need to be able to live and work independently. The focus will be on daily life skills that are in the areas of cooking, cleaning, laundry, vocational work skills, personal information, money, time, social interaction, personal care, and communication skills. This list is not inclusive and could be added to or taken away from depending on the individual's own needs as described in his/her IEP**.** This is a pass/fail course; no letter grades are given.

3507 **PERSONAL & SOCIAL SKILLS** (1 credit/semester for each period) GRADES 9-12 ASSIGNED

*PREREQUISITE: IEP behavior goal*
*MAXIMUM ENROLLMENT: 4 per section*

The students will learn developmental skills that will help them in social situations through various social skills curricula such as, but not limited to Zones of Regulation, Mind Up, Level Up, A 5 is Against the Law, and Boys Town Social Skills. The students will role-play different situations to learn how to cope with those types of situations in the real world, participate in discussions related to topics related to self-regulation and self-care. Once they learn the skills, they will also learn how to generalize those skills into the classroom setting, and the community.

4038/39 **PRACTICAL MATH** (1 year = 2 credits) GRADES 9-12 ASSIGNED

*PREREQUISITE: IEP math goal*
*MAXIMUM ENROLLMENT: none*

Practical Math is a class to help prepare the student for the real world.

4050/52 **PRACTICAL LANGUAGE ARTS** (1 year = 2 credits) GRADES 9-12 ASSIGNED

*PREREQUISITE: IEP Language Arts goal*
*MAXIMUM ENROLLMENT: none*

Practical Language Arts is a class to help prepare the student for the real world.

# WORK OPPORTUNITIES

4024 **CTE INTERNSHIP** (1 year = 2 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: on track to graduate, internship established before August 15th for approval in the program, learning targets & deadlines met, work at least 4 hours/week at the business, no behavior referrals, GPA of 3.0 or higher, & school attendance of 90% or better previous year*
*MAXIMUM ENROLLMENT: 5-10 students per year*

Students in high school will actively have an internship with a local company in the immediate area. The goal will be for the students to work in a work-study format with a local business. The internship may be paid or not depending on the contract between the school and place of business. Students will work on a weekly journal to assess job performance and learning objectives. Work experience is monitored by Mrs. Martin. This course qualifies for FFA membership provided the internship is in an agricultural field.

4057/58 **WORK STUDY** (60 hours worked = 1 credit, up to 9 credits) GRADES 11-12 ELECTIVE

*PREREQUISITE: part-time job & principal approval*
*MAXIMUM ENROLLMENT: none*

Students have the opportunity to receive credit for working an outside-of-school job. Students will receive one credit for every 60 hours worked. Students will submit a "work study agreement" and monthly evaluations and proof (pay stubs) of 60 hours of work. The "work study agreement" must be agreed upon by both school administration and place of employment. The forms must be turned in within two weeks of the semester. If a student does not successfully complete a work study agreement, they will not be considered for future work study agreements. This is a pass/fail course; no letter grades are given.