

SHIKELLAMY HIGH SCHOOL

COURSE SELECTION GUIDE



2025-2026

TABLE OF CONTENTS

School Board Directors and Administration.....	3
Introduction.....	4
Program Descriptions.....	5
Counseling Services.....	6
Graduation Requirements.....	7
Course Descriptions-Communication Arts	8
Course Descriptions- Mathematics.....	11
Course Descriptions- Social Studies.....	14
Course Descriptions- Science.....	17
Course Descriptions- Physical Education, Health & Medical Sciences.....	21
Course Descriptions- Art.....	24
Course Descriptions- Music.....	28
Course Descriptions- World Languages.....	30
Course Descriptions- Business.....	32
Course Descriptions- Industrial Arts.....	35
Course Descriptions- Family & Consumer Science.....	38
Course Descriptions-Guidance.....	39
Medical Sciences Pathway.....	41
Construction Trades Pathway.....	45
Teaching and Education Pathway.....	47
Diversified Occupations & Cooperative Education.....	51
Entrepreneurship Pathway.....	53
SUN Area Technical Institute Course Descriptions.....	57
Appendix- Honors/Advanced Placement Criteria.....	58

**THE SHIKELLAMY SCHOOL DISTRICT
SUNBURY, PENNSYLVANIA**

SCHOOL BOARD DIRECTORS

Mrs. Wendy Wiest-President
Mr. Slade Shreck-Vice-President
Mrs. Lori Garman-Secretary
Mrs. Julie Brosius
Mrs. Jenna Eister- Whitaker
Mr. Justin Lenner
Mr. Joe Stutzman
Mr. Michael Thomas
Mr. Tom Webb

STUDENT BOARD MEMBERS

Ms. Bailey Ney
Mr. Logan Wiest

DISTRICT ADMINISTRATION

Dr. Jason Bendle
Mr. Jeremy Winn
Mr. Brian Manning
Dr. Stephanie Michaels

Superintendent
Assistant Superintendent
Business Manager
Director of Special Education

HIGH SCHOOL ADMINISTRATION

Mr. Marc Freeman
Mr. Stephen Hafele

Principal
Assistant Principal

COUNSELORS

Mr. Fred Coleman
Mrs. Elizabeth Deitrich
Mr. Robert Donlan

INTRODUCTION

As a high school student, one of the most serious decisions with which you are faced each year is the selection of courses for the following year. Proper planning is important if you are to prepare yourself for your future goals, whether they may include further education or immediate entry into the job market.

Planning should be a cooperative effort. As a student, you should not feel that you are alone in making your decision. Your counselors, teachers, and parents are ready and willing to help you with your decision; however, ultimately the choice must be yours. When planning your schedule of courses, you should consider these four criteria:

1. Your abilities: Carefully consider your academic record for the past several years. While your grades in middle school should not necessarily determine your academic program in high school, a review of your report cards may give you a good indication of your strengths and weaknesses.
2. Your interests: A high school schedule provides an opportunity not only to prepare for your future, but also, to explore and develop your individual interests and abilities. If you have always enjoyed art, music, woodworking, or sewing, you may want to take as many courses in these areas as you can schedule. If you have a special interest in computers or media, you may consider courses that will develop your skills or knowledge in those subjects.
3. Your goals: Ideally, your selection of courses in high school will be based upon future goals that you have set for yourself. Certain colleges require a certain number of courses and credits. You want to be aware of these requirements as you create your schedule. Your counselor will be discussing a planned program with you that will help you to reach your goals. Remain flexible and try not to limit your future options when selecting courses.
4. Your requirements: There are a number of requirements that you must be aware of when planning your schedule: required courses, the number of credits needed to graduate, or other points which are covered in this guide.

This Course Selection Guide contains the answers to most of the questions that may arise concerning the process of developing your schedule. Read all of the information carefully.

COURSE DESCRIPTIONS

The Shikellamy School District has structured its course selections with flexibility for individual choices. The High School offers a curriculum based on Pennsylvania's Chapter Four curriculum regulations. By working toward the performance objectives established by Chapter Four, the student will have a solid base for career success. This curriculum is designed to give students the opportunity to direct their studies toward a specific technical or professional career.

Parents and students should carefully read the descriptions of each course in this booklet. They give direction for student selection. Two critical questions should be examined before any course selection -

1. After considering my own abilities and interests, what do I want to do after high school?
2. What courses do I need to take in high school to help me accomplish this?

Parents and students are urged to consult with school personnel whenever questions arise concerning their educational program. **After the course selection process is completed, students are expected to follow their schedules. *NO schedule change requests will be made once school has started. If you want changes made to your schedule, you must contact your counselor prior to the 1st day of school.**

If students intend to work immediately after graduation, they should examine their own abilities, interests, and the employment possibilities in order to select courses that will benefit them in the occupations of their choice.

Students who intend to enter college or other institutions of post-high school training should elect those subjects that are required for entrance to those institutions. The traditional sequence of math (Algebra 1, Algebra 2, and Geometry), two years of one language, and science (biology, chemistry and physics) are required by many colleges. However, it is important to investigate colleges and other training institutions in the early high school years.

Honors and Advanced Placement courses are provided in five (5) departments for election by students who desire academically intense courses. Grades in these courses are weighted and are marked with an asterisk (*) in this catalog.

SUN Area Technical Institute Curriculum is designed to furnish preparation to students who plan to go directly from school into industry. Nineteen areas are available. The program provides an experience in the basic requirements of each trade. The successful graduate may enter the field as an advanced apprentice, depending upon his/her individual progress. The **SUN Area Technical Institute** program is available to seniors.

***Incoming freshmen will receive one high school credit for each course for passing Algebra 1, Spanish 1, Honors Biology, or Honors Geometry in 7th and/or 8th grade.**

COUNSELING SERVICES

Student Assignments - A student's school counselor is listed on their individual class schedule.

GUIDANCE OFFICE

The Guidance Office is a resource for reference materials and student information, including:

SMART FUTURES, PHEAA MENTOR, FASTWEB and many more - programs that provide information to help students select careers and choose post-secondary training institutions.

FINANCIAL AID INFORMATION

Financial Aid – The Guidance Office has a number of publications to help with the financial aid process.

Financial Aid Night - An evening program is conducted each year for interested parents and students.

Scholarship Information – Scholarships are announced regularly.

COLLEGE AND TRADE OR TECHNICAL SCHOOL VISITATIONS

Visits from post-secondary schools are scheduled for interested students throughout the year. In addition, students are encouraged to make appropriate visits to institutions of their choice.

All courses elected by a student shall be recorded on the permanent record. After school has opened, a request for change shall be considered on its own merits. However, only changes requested under the most extenuating circumstances will be considered, and then only after consultation with the parent or guardian, the subject teachers, the counselors, and the principal. No schedule changes will be made without the consent of the principal.

Summer school and/or Credit Recovery is highly recommended in order for students to remain aligned with their class. Students must achieve a final grade of 50% or more to be eligible for summer school and/or Credit Recovery.

DUAL ENROLLMENT/COLLEGE CREDITS - Students who wish to take courses concurrently at a college or university should contact the Guidance Office. Students selecting Dual Enrollment and/or college credits are responsible for all financial associated obligations. Shikellamy High School also has Dual Enrollment agreements with Bloomsburg University, Susquehanna University, Luzerne County Community College and Lackawanna College in which they will have the opportunity to earn college if they choose. For more information about Dual Enrollment courses and grading, please refer to School Board Policies 124.1 Dual Enrollment in Post-Secondary Courses and 213.1 Student Grading and Credits.

NCAA INITIAL - ELIGIBILITY - Courses marked with a carat (^) - are not approved by the NCAA Clearinghouse for use in establishing the certification status of student athletes from this high school.

GRADUATION REQUIREMENTS

REQUIRED CREDITS

COMMUNICATION ARTS – Four (4) credits.

MATHEMATICS – Four (4) credits.

SCIENCE – Four (4) credits

SOCIAL STUDIES – Four (4) credits.

PHYSICAL EDUCATION – One-half (.5) credit

HEALTH EDUCATION – One-half (.5) credit

ARTS & HUMANITIES – Two (2) credits.

ELECTIVES – Six (6.00) credits

Students must score proficient in the following Keystone Assessments to graduate: Algebra I, Biology, and Literature.

Course Symbols:

* Indicates Course has a Prerequisite

Indicates that Students will be placed in this course based on individual student achievement data.

^ Indicates that the course is NOT approved for NCAA Eligibility.

(LC) Indicates the course is a Dual Enrollment Course with Lackawanna College.

+ Indicates that the course IS approved for NCAA Eligibility

PC Indicates the course is part of Penn College Now program

COMMUNICATION ARTS COURSES

101+ FRESHMAN COMMUNICATIONS

Credits: 1

Freshman Communications focuses on the four components of language: reading, writing, listening and speaking. Through the use of short stories, novels and other literature, students will practice interpretation and analysis. Appropriate written responses will incorporate detail and explanations. Listening for the message will be used for communication of information. And, techniques for speaking interpersonally, in small groups and to large audiences will also be addressed.

102#+ FRESHMAN HONORS ENGLISH

Credits: 1

Students will be placed in this course based on individual student achievement data.

Freshman Honors English is the first step of the Shikellamy High School Honors English Program. A student taking part in this course should expect a higher degree of rigor, a greater volume of reading, possess an above average quality of writing, listen and process information and articulate ideas verbally. These, coupled with the goals of 101 Freshman Communication should prepare students for Sophomore Honors English.

111*+ SOPHOMORE COMMUNICATIONS

Credits: 1

Prerequisite: 101

Sophomore Communication Arts is a core class that follows the successful completion of Freshman Communication Arts. The course is entirely aligned to Chapter 4 regulations from the Pennsylvania Department of Education and focuses on alignment with the Pennsylvania Common Core. Students will read independently, read critically, and read to analyze and interpret informational and narrative works. This includes all of the subsequent skills regarding vocabulary, literary devices, and all three levels of reading analysis: literal, figurative, and relative interpretations. Additionally, the students will generate authentic written responses in all three modes as recognized by the Pennsylvania Department of Education: informational, narrative, and persuasive writing. These will be assessed using the five characteristics of effective writing as recognized by the PDE: focus, content, organization, style, and conventions. Finally, the students will develop skills aligned to speaking, listening, and research standards. Multiple instructional strategies and methods of assessment will be used including: performance-based assessment, project-based assessment, authentic assessment, and pencil/ paper assessment, among others.

112*#+ SOPHOMORE HONORS ENGLISH

Credits: 1

Prerequisite: A in 101 or 102

Students will be placed in this course based on individual student achievement data.

Sophomore Honors English is the second step of the Shikellamy High School Honors English Program. A student taking part in this course should expect a higher degree of rigor, a greater volume of reading, possesses an above average quality of writing, listen and process information and articulate ideas verbally. These, coupled with the goals of 111 Sophomore Communication should prepare students for Junior Honors English. This year's literature emphasis is American Literature.

116*+ JUNIOR COMMUNICATIONS

Credits: 1

Prerequisite: 111 or 102

Junior Communication Arts is a core class that follows the successful completion of Sophomore Communication Arts. The course is entirely aligned to Chapter 4 regulations from the Pennsylvania Department of Education and focuses on alignment with the Pennsylvania Common Core. Students will read independently, read critically, and read to analyze and interpret informational and narrative works. This includes all of the subsequent skills regarding vocabulary, literary devices, and all three levels of reading analysis: literal, figurative, and relative interpretations. Additionally, the students will generate authentic written responses in all three modes as recognized by the Pennsylvania Department of Education: informational, narrative, and persuasive writing. These will be assessed using the five characteristics of effective writing as recognized by the PDE: focus, content, organization, style, and conventions. Finally, the students will develop skills aligned to speaking, listening, and research standards. Multiple instructional strategies and methods of assessment will be used including: performance-based assessment, project-based assessment, authentic assessment, and pencil/ paper assessment, among others.

117*#+ JUNIOR HONORS ENGLISH**Credits: 1**

Prerequisite: A in 102 or 112

Students will be placed in this course based on individual student achievement data.

Junior Honors English is the third step of the Shikellamy High School Honors English Program. A student taking part in this course should expect a higher degree of rigor, a greater volume of reading, possesses an above average quality of writing, listen and process information and articulate ideas verbally. These, coupled with the goals of 116 Junior Communication should prepare students for Advanced Placement English. This year's literature emphasis is British Literature.

120*+ SENIOR COMMUNICATIONS**Credits: 1**

Prerequisite: A in 116 or 117

Senior Communications will explore various types of literature such as novels, short stories, and articles from periodicals. Students will also develop writing skills by completing essays as well technical writing pieces in the Workforce Readiness unit. Senior Communications will also emphasize speaking using proper decorum for academic and career applications.

108^ READING INFORMATIONAL TEXTS IN TECHNICAL SUBJECTS (grades 9-12) Credits .5

This course will be taken concurrently with Communication Arts 9, 10, or 11 and is required for students who may be interested in attending SUN Area Technical Institute during their senior year. Students will focus on reading strategies for informational texts and will read professional journals aligned to specific shops and recommended by the teachers at SUN Area. **In order to attend SUN Area, students must pass this course and the Technical Writing course.**

109^ TECHNICAL WRITING (grades 9-12)**Credits: .5**

This course will be taken concurrently with Communication Arts 9, 10, or 11 and is required for students who may be interested in attending SUN Area Technical Institute during their senior year. Students will develop their skills in technical writing including clarity, conciseness, document design, audience recognition, and accuracy. **In order to attend SUN Area, students must pass this course and the Reading Informational Texts in Technical Subjects course.**

122*#+ADVANCED PLACEMENT ENGLISH (LC)**Credits: 1.5**

Prerequisite: A in 116 or 117

Students will be placed in this course based on individual student achievement data.

It is the purpose of Advanced Placement English to identify students who, having attained the reading and writing skills generally expected in introductory college courses, are ready for advanced, more specialized English courses when they arrive at college. A primary goal of the course is to prepare the students for the Advanced Placement Examination in English through intensive study of literature, communication, and composition.

123*+ COLLEGE WRITING (LC)**Credits: 1**

Prerequisite: 116 or 117

The goal of this course is to empower students to effectively produce polished, coherent academic essays while employing critical, analytical, and research skills. This challenging course is targeted toward students planning on continuing their academic education in college after graduation. A student taking this course should expect a college-level degree of rigor, a greater volume of reading, and possess an above-average quality of writing.

125^ JOURNALISM I (grades 11-12)**Credits: 1**

Journalism I focuses on basic communication skills necessary for print and broadcast media. Class assignments include traditional instruction from the texts and practical applications of journalistic theory, emphasizing primary research skills, interviewing, writing, editing, and presentation. In addition, students analyze and evaluate professionally written newspaper and magazine articles and professional television and radio interviews in order to improve their own journalistic skills.

Journalism I is taught using the latest hardware, software and internet technologies. By combining traditional research

and writing skills with current presentation technology, students will cultivate both oral and writing skills. Practical application of skills will be used in helping to create the yearbook. This course will receive one elective credit.

126*^ JOURNALISM II (grade 12)

Credits: 1

Prerequisite: 125

Journalism II is a continuation of Journalism I. It continues to focus on writing, interviewing, and basic research skills. In addition, students will be expected to complete major projects acting as editor as well as writer and designer and must be able to apply journalistic ethics and time management skills.

141 INTRODUCTION TO THEATRE ARTS (grades 9-12)

Credits: .5

Students will read and analyze plays as they learn voice, character development, as well as stage movement. After successful completion of theory, literary analysis, and research, students will apply what they have learned in practical situations: pantomime, improvisation, movement, as well as prepared scenes. Basic theory in stagecraft, lighting, costume, and makeup will be studied as well as practical vocabulary. This course receives elective credit.

147 WRITING FOR SOCIAL MEDIA (grades 9-12) (Elective English credit) Credits: .5

This course will focus on writing techniques for social media. Students will analyze various forms of writing on social media platforms. The class will require students to follow the writing process to create content articles. Students will participate in writing workshops and peer editing. By the end of the course, students will have a deeper understanding of how to communicate effectively.

2014 INTRODUCTION TO FILM (grades 10-12)

Credits: .5

Introduction to Film will introduce students to the artistry, culture, and language of film. Students will analyze film as an art form, examining the creative decisions made by filmmakers to convey powerful narratives and evoke emotions. From cinematography and editing to sound design and scriptwriting, students will gain a deep understanding of the collaborative and multidisciplinary nature of the filmmaking process. Students also will have the opportunity to put theory into practice by engaging in hands-on activities that involve creating their own short films. These projects will not only reinforce the concepts learned in class, but also provide a platform for students to express their creativity and develop their unique voice as emerging filmmakers.

2061 PUBLIC SPEAKING (Grades 10-12) (EP)

Credits: .5

Public Speaking is a dynamic course designed to help students build confidence and develop essential communication skills for various real-world situations. Through engaging activities, students will learn how to research, organize, and deliver speeches effectively while honing their ability to think critically and present ideas persuasively. The course covers a range of speaking styles, including informative, persuasive, and impromptu speeches, as well as techniques for managing speech anxiety and connecting with diverse audiences. By the end of the course, students will be equipped with the tools to communicate confidently and purposefully in both personal and professional settings.

MATHEMATICS COURSES

316 +ALGEBRA 1**Credits: 1**

This course deals with the use of symbols and signed numbers with the fundamental operations of addition, subtraction, multiplication, and division. Problems are solved using an unknown quantity. There is also much practice in the solving of equations and inequalities, the use and solution of formulas, fundamental operations with fractions, square roots of algebraic terms, and the meaning and use of radicals. The language of sets is used.

310*+ ALGEBRA 2**Credits: 1**

Prerequisite: 316

This full year course expands student knowledge of solving, writing, and graphing linear functions. Systems of equations and inequalities are solved using graphs, algebraic manipulation, and matrices. The properties of absolute value, quadratic, exponential, and logarithmic functions are developed by connecting the algebraic form of the functions with their graphs. These topics will also be investigated to find connections and applications to real world problems.

312*#+ HONORS ALGEBRA 2**Credits: 1**

Prerequisite(s) 329 and pass Keystone Algebra Assessment

Students will be placed in this course based on individual student achievement data.

This course is designed for academically motivated students. Students will be placed in Honors based on student achievement data or meeting the established pre-requisite. This is a comprehensive course featuring in-depth coverage of advanced algebra terms and processes and problem solving. This full year course expands student knowledge of solving, writing, and graphing linear functions. Systems of equations and inequalities are solved using graphs, algebraic manipulation, and matrices. The properties of absolute value, quadratic, exponential, and logarithmic functions are developed. Emphasis is placed on reasoning and problem-solving skills gained through study of advanced algebra. Students who take this course should be interested in continuing their math education through the AP Calculus course.

307*+ GEOMETRY**Credits: 1**

Prerequisite: 310

This is a comprehensive course featuring coverage of geometric terms and processes, logic and problem solving. Topics included are parallel lines and planes, congruent triangles, inequalities and quadrilaterals. Various forms of proof are studied. Emphasis is placed upon reasoning and problem-solving skills gained through study of similarity, areas, volumes, circles, and coordinate geometry.

329*#+ HONORS GEOMETRY**Credits: 1**

Prerequisite A in 316

Students will be placed in this course based on individual student achievement data.

This course is designed for academically motivated students. Students will be placed in Honors based on student achievement data. This is a comprehensive course featuring in-depth coverage of geometric terms and processes, logic and problem solving. Topics include parallel lines and planes, congruent triangles, inequalities and quadrilaterals. Various forms of proof are studied. Emphasis is placed on reasoning and problem-solving skills gained through study of similarity, areas, volumes, circles, and coordinate geometry. Students who take this course should be interested in continuing their math education through the AP Calculus course.

313* #+ HONORS PRE-CALCULUS (LC)**Credits: 1**

Prerequisite 312

Students will be placed in this course based on individual student achievement data.

This course is designed for academically motivated students. Students will be placed in AP Calculus based on student achievement data. This is a comprehensive course featuring in-depth coverage of advanced algebra terms and processes and problem solving. Topics include equations and graphs of lines, parallel lines, perpendicular lines, quadratics, and trigonometry. Emphasis is placed on reasoning and problem-solving skills. Students who take this course should be interested in continuing their math education through the AP Calculus course.

332 TECHNICAL MATHEMATICS^**Credits: 1**

(Completion of 316 Algebra 1 preferred)

This course will cover the use of formulas, algebraic operations, use of determinants, use of exponents and logarithms. You will learn topics in practical geometry, plane trigonometry, polygons and solids, angles, and trigonometric functions as related to technical careers. The course will cover the basic elements of arithmetic. You will learn about numbers, symbols, operations, fractions, decimals, percentages, averages, and square roots. You will learn about using different measurement systems, performing mathematical operations with units of measurement, and converting between different units. You will become familiar with variables, cross multiplying, algebraic fractions, reciprocal rules, and exponents. You will study the properties of angles, lines, polygons, triangles, and circles, as well as the formulas for area, volume, and perimeter. You will have a review of word problems and data analysis questions; learn how to set up and solve word problems, and understand graphs, charts, tables, and diagrams with confidence.

318*#+ PRE-CALCULUS (LC)

Credits: 1

Prerequisite: 310

The main goal of Pre-Calculus is for students to gain an understanding of the fundamental concepts and relationships of functions. Students will expand their knowledge of quadratic, exponential, and logarithmic functions to include power, polynomial, rational, piece-wise, and trigonometric functions. Students will investigate and explore mathematical ideas, develop multiple strategies for analyzing complex situations, and use graphing calculators.

319*+ CALCULUS

Credits: 1

Prerequisite: 318

A course intended primarily for students who will be math, science, or engineering majors in college. Subjects included will be the theory of limits, the derivation of functions and their applications, and integration. This course is recommended only for better than average Math students.

314*# +ADVANCED PLACEMENT CALCULUS

Credits: 1.5

Students will be placed in this course based on individual student achievement data.

This advanced placement course consists of a full academic year of work in calculus and related topics comparable to courses in colleges and universities. This course begins with integral calculus and works through topics tested on the A. P. Calculus AB. Colleges may grant advanced placement and credit upon completion of the course and the Advanced Placement Examination taken in May. Students are expected to take the AP Calculus examination.

1172*#+ ADVANCED PLACEMENT PRECALCULUS

Credits: 1

In this full year AP PreCalculus course, students explore all high school PreCalculus topics as well as advanced Algebra and Geometry concepts. This class requires students to demonstrate fluent understanding of concepts and procedures, reason abstractly and quantitatively to solve problems, communicate reasoning, model with mathematics, and evaluate conclusions. As in all advanced level courses, students are expected to complete work according to given timelines so they are prepared to move through the curriculum at the required pace. Students who successfully complete this course will be prepared for Calculus I.

333*+ INTRODUCTION TO STATISTICS (LC)

Credits: 1

Prerequisite: C or better in 310

The amount of statistical information that is collected, processed, and disseminated to the public for one reason or another has increased the need for the study of statistics over the last few decades. This course is intended to gain an understanding of the nature of probability and statistics along with applications in agriculture, biology, business, economics, education, psychology, engineering, medicine, sociology, and computer sciences will be addressed.

343*#+ AP CALCULUS BC

Credits: 1.5

Students will be placed in this course based on individual student achievement data.

AP Calculus BC is roughly equivalent to both first and second semester college calculus courses and extends the content learned in a first year Calculus course to different types of equations and introduces the topic of sequences and series. This course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. You will learn how to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst

these representations.

345 CONSUMER MATH (grades 11-12)

Credits: 1

In Consumer Math, students study and review arithmetic skills they can apply in their personal lives and in their future careers. The first semester of the course begins with a focus on occupational topics; it includes details on jobs, wages, deductions, taxes, insurance, recreation and spending, and transportation. In the second semester of Consumer Math, students learn about personal finances, checking and savings accounts, loans and buying on credit, automobile expenses, and housing expenses.

346 ALGEBRAIC CONCEPTS (grades 9-12)

Credits: 1

This is the introductory course into SHS math sequence. The topics covered will be skills necessary for the next levels of mathematics. By the end of this course, students will have a deeper understanding of algebra; be proficient in the language and basic operations of algebra; and learn organization skills to help with academic achievement.

SOCIAL STUDIES COURSES

501+ AMERICAN HISTORY 1

Credits: 1

This course will continue the study of United States history from approximately 1800-1920. Topics to be discussed include the Industrial Revolution, Manifest Destiny, the Civil War, the impact of the western frontier, Imperialism, the Progressive Era and World War I. Students will study the social, economic, political and military aspects of life in the 19th and early 20th centuries. Many important Supreme Court cases will be examined as well as changes in the Geography of the United States during this time. Students will learn to compare historical evidence with different interpretations of historical events through a variety of primary sources.

526*+ HONORS AMERICAN HISTORY 1

Credits: 1

Prerequisite: A in 8th grade Social Studies and teacher recommendation

Honors American History is designed for 9th grade students as an introduction to advanced placement courses. It will cover the first half of the Advanced Placement United States History curriculum, from approximately 1491-1898. Students will be expected to continue with Advanced Placement United States History in 10th grade. The course will provide a college-level experience and preparation for the AP exam. An emphasis is placed on interpreting documents, mastering a significant body of factual information and writing critical essays. Topics that will be covered include: Colonial America, The American Revolution, constitutional development, Jeffersonian and Jacksonian democracy, 19th century reform movements, Manifest Destiny, The Civil War, Reconstruction, Imperialism and the 1st and 2nd Industrial Revolutions.

504*+ AMERICAN HISTORY 2

Credits: 1

Prerequisite: 501

American History from the 1920s to the present will be examined in this course. Events to be discussed include The Roaring Twenties, The Great Depression, World War II, The Cold War and Vietnam. Students will study the social, economic, political and military aspects of life in the 20th century. Supreme Court cases and map skills will be included. Students will continue to compare historical evidence with various interpretations of historical events through the use of primary sources.

513+ CIVICS AND GOVERNMENT

Credits: 1

Civics and Government will provide a comprehensive background for the understanding of United States citizenship and the foundations and operation of the American government. Students will apply this understanding to current event topics relevant to our nation and election issues. This course will emphasize civic participation by the students. The course will include units on foundations of government, the three branches of the federal government, civil rights and citizenship, political parties and the media, state and local government and government and the economy.

515*# ADVANCED PLACEMENT US GOVERNMENT & POLITICS (LC) Credits: 1.5

Prerequisite: A 504 or 511

Students will be placed in this course based on individual student achievement data.

AP United States Government and Politics introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning, assess causes and consequences of political events, and interpret data to develop evidence-based arguments. The goal is to prepare for the AP Exam. A high score on the exam may result in college credit.

507+ WORLD HISTORY

Credits: 1

The Non-Western World – Our small planet has become an increasingly interdependent global community. Our well being – perhaps our survival – has come to depend in part on cross-cultural awareness, communication, cooperation and respect. When societies are studied, it becomes readily apparent that cultural differences are a result of different learning experiences. Present culture is the end product of geographic setting and historical events. After looking at setting and origin, students will examine the culture of several non-Western societies as they exist today. Among the areas to be studied are Asia (including China, Japan, India and Southeast Asia), Middle East and Africa south of the Sahara.

1163*# AP WORLD HISTORY, MODERN**Credits: 1**

An introductory college-level modern world history course. Students cultivate their understanding of world history from 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments. Concepts students will explore include humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

511*# ADVANCED PLACEMENT AMERICAN HISTORY (LC)**Credits: 1**

Prerequisite: A in 501 or 526

AP US History is designed for 10th grade students. It will cover the second half of the Advanced Placement United States History curriculum, from approximately 1890-present. The course will provide a college-level experience and preparation for the AP exam. An emphasis is placed on interpreting documents, mastering a significant body of factual information and writing critical essays. Topics to be covered include: The Progressive Movement, World War 1, The Roaring Twenties, The Great Depression, World War 2, The Cold War, The Civil Rights Movement, Vietnam, and Presidents 1960s-present. Students are expected to take the College Board AP Examination at the end of the course. A high score on the exam may result in college credit.

510+ PRACTICAL ECONOMICS (9-12)**Credits: .5**

Principles of Economics is a half-year course that deals with the behavior of individuals and institutions engaged in the production, exchange and consumption of goods and services. This course includes the basic knowledge of the characteristics of economic systems, how markets establish prices, how scarcity and choice affect allocation of resources, and how work and earnings impact productivity. This course also focuses on helping students make better decisions about money, spending and investments.

516+ PSYCHOLOGY (grades 10-12) (LC)**Credits: .5**

This course is intended to provide a basic introduction to the study of psychology. It is designed to provide an academic challenge for students delving into a discipline that is both an art and a science. Students will learn basic psychological concepts relating to personality, education, altered states of consciousness and abnormal psychology. Students will be asked to take an in-depth look at their own personal psychology as well.

500+ SOCIOLOGY (grades 9-12)**Credits: .5**

In this course, students will explore the evolution of sociology as a distinct discipline while learning about sociological concepts and processes. They will learn how the individual relates to and impacts society. Students will also learn about the influence of culture, social structure, socialization, and social change on themselves and others. The course combines a variety of content types, including lessons, activities, discussions, and games to engage learners as they discover sociology as a subject and as a career.

517 JROTC/LET 1 - LEADERSHIP, EDUCATION, TRAINING 1 (grades 9-12) Credits: 1

Students taking these courses will be expected to wear the prescribed uniform as stated in the contractual agreement between Shikellamy School District and the United States Army. Furthermore, proper grooming (i.e., clean shaven, neatly groomed hair) will also be expected in this class. This program is designed for both males and females. Participants' conduct will also be evaluated as part of the overall grading program for this course.

The mission of JROTC is "To motivate young people to be better citizens." The program is a stimulus for promoting graduation from high school and it provides instruction and rewarding opportunities that will benefit the student community and nation.

The objective of this class is to develop in each student better citizenship, self-reliance, leadership, responsiveness to constituted authority, an appreciation of the role of the Armed Forces in support of national objectives, and an ability to communicate effectively both orally and in writing. In addition, the student will learn the appreciation of the role of physical education to the accomplishment of these objectives. The program also incorporates community involvement projects.

The program will cover the following areas: Leadership, Citizenship, American History (Revolutionary War to Civil War), Life Skills, Physical Fitness, Drug Awareness, Map Reading, First Aid and Career Options. The program also

includes a one week (voluntary) camp (a selected group to participate in a summer camp at Fort Indiantown Gap, Annville, PA) which will focus on adventure training, leadership skills, and having fun. The Army Junior ROTC program is NOT a recruitment vehicle for the Armed Forces nor does it require any service obligation or combat type training. This program is designed for both males and females.

518* JROTC/LET 2 LEADERSHIP, EDUCATION, TRAINING 2 (grades 10-12) Credits: 1

Prerequisite 517

Students taking these courses will be expected to wear the prescribed uniform as stated in the contractual agreement between Shikellamy School District and the United States Army. Furthermore, proper grooming (i.e., clean shaven, neatly groomed hair) will also be expected in this class. This program is designed for both males and females. Participants' conduct will also be evaluated as part of the overall grading program for this course.

The objective of this class is to expand upon what is learned in the JROTC/LET 1 instruction and to increase leadership qualities. Classroom instruction will enable each student to enhance techniques of communication, leadership, Cadet Challenge (physical conditioning), citizenship, self-reliance, a knowledge of those basic military skills applicable in civilian life and basic life skills.

The program will cover the following areas: Techniques of Communications, Leadership, Citizenship, American Military History (post World War II to present), Life Skills, Physical Fitness, Map Reading, First Aid and Technology Awareness. The program also incorporates a community involvement project and a one week summer (voluntary) camp which focuses on adventure training, leadership skills, and having fun.

519* JROTC/LET 3 LEADERSHIP, EDUCATION, TRAINING 3 (grades 11-12) Credits: 1

Prerequisite 518

Students taking these courses will be expected to wear the prescribed uniform as stated in the contractual agreement between Shikellamy School District and the United States Army. Furthermore, proper grooming (i.e., clean shaven, neatly groomed hair) will also be expected in this class. This program is designed for both males and females. Participants' conduct will also be evaluated as part of the overall grading program for this course.

The objective of this class is to expand upon what is learned in the JROTC/LET 1 & LET 2 instruction and to increase leadership qualities. Classroom instruction will enable each student to enhance techniques of communication, leadership, Cadet Challenge (physical conditioning), citizenship, self-reliance, a knowledge of those basic military skills applicable in civilian life and basic life skills.

The program will cover the following areas: The Techniques of Communications, Leadership, Citizenship, American Military History (World War I to World War II), Life Skills, Physical Fitness, Map Reading, First Aid and Technology Awareness. The program also incorporates a community involvement project and a one week summer (voluntary) camp which focuses on adventure training, leadership skills, and having fun.

520* JROTC/LET 4 LEADERSHIP, EDUCATION, TRAINING 4 (grade 12) Credits: 1

Prerequisite 519

Students taking these courses will be expected to wear the prescribed uniform as stated in the contractual agreement between Shikellamy School District and the United States Army. Furthermore, proper grooming (i.e., clean shaven, neatly groomed hair) will also be expected in this class. This program is designed for both males and females. Participants' conduct will also be evaluated as part of the overall grading program for this course.

The objective of this class is to expand upon concepts learned in JROTC/LET 1, LET 2, and LET 3 and to increase leadership qualities. Classroom instruction will enable each student to enhance techniques of communication, leadership, Cadet Challenge (physical conditioning), citizenship, self-reliance, a knowledge of those basic military skills applicable in civilian life and basic life skills. LET 4 cadets will be required to teach a block of instruction to any of the lower LET levels. LET 4 cadets will be expected to demonstrate an appropriate level of leadership as they mentor and guide cadets in the lower levels.

The program will cover the following areas: The Techniques of Communications, Leadership, Citizenship, American Military History (beginning of a nation to World War I), Life Skills, Physical Fitness, Map Reading, First Aid and Technology Awareness. The program also incorporates a community involvement project.

SCIENCE COURSES

448+ ECOLOGY

Credits: 1

This course develops an awareness of the complexity of all living organisms. It shows the relationships of Life Science to the Physical Sciences. The course uses labs whenever possible as well as a variety of audio-visual aids to make the content both functional and dynamic.

451+ BIOLOGY

Credits: 1

This course is an introduction to life. The focus is on living things or organisms, their structure and function, as well as their growth and development. The flow between matter and energy involving organisms will be investigated. Modeling, analysis, explanation, and evaluation will be the key science and engineering practices developed as the aforementioned disciplinary core ideas are addressed. Human biology will be the primary focus on topics such as cells, multicellular organization, reproduction, inheritance of traits, and evolution as possible.

454#+ HONORS BIOLOGY

Credits: 1

Prerequisite: A in 8th grade Science

This course is an advanced course on the introduction to life. The focus is on living things or organisms, their structure and function, as well as their growth and development. Organisms' roles and relationships within the ecosystem and biosphere will be addressed, as the flow between matter and energy is investigated. Modeling, analysis, explanation, and evaluation will be the key science and engineering practices developed as the aforementioned disciplinary core ideas are addressed. Human biology will be the primary focus on topics such as cells, multicellular organization, reproduction, inheritance of traits, and evolution as possible. Rigorous assessments will be the primary grades in this course.

459*#+ HONORS CHEMISTRY (LC)

Credits: 1

Prerequisite: 450 or 451 and pass Keystone Biology Assessment

Students will be placed in this course based on individual student achievement data.

This course is designed for the highly motivated student who has the ability to work independently and in collaborative groups. Students enrolling for this class should have excellent math and communication skills. Chemical concepts, theory and problem solving will be studied by utilizing research and investigative skills. Emphasis is placed on problem solving through knowledge generation, theory testing, experimenting, collecting and analyzing data, drawing conclusions and communicating results to peers. The content of this course is in more depth and broader in scope than that of 456 Chemistry 1. Word processing, spreadsheet and database skills are recommended.

521+ INTRODUCTION TO COMPUTER SCIENCE (Grades 9-12)

Credits: .5

Prerequisite/concurrent: 316 (Algebra 1)

This course covers Algorithms & Programming, Computing Systems, Data and Analysis, Impacts of Computing, and Networks & the Internet. This course counts for either Science or Math credit. We are really excited about this course. In fact, we see this course developing into a full year, full credit course. This course can fulfill an elective credit, a math credit, and a science credit. Students must have taken Alg 1 and successfully passed it. This half credit course serves as an important course to take prior to AP Com Science. This course offers a great opportunity for students who excel at computers and computer programming.

456*+ CHEMISTRY 1

Credits: 1

Prerequisite: C or better in 316 and 451 or 450

This science course is designed to meet the needs of students preparing for college for a career in science, the medical fields, and related fields. The course content is concerned with modern chemical concepts and how these are related through math. Lots of laboratory experiments make this a hands-on course. Word processing, spreadsheet, database and presentation software will be introduced and utilized in this course.

464*+ ORGANIC & BIOLOGICAL CHEMISTRY**Credits: 1**

Prerequisite: B in 456 or A in 487

Organic Chemistry teaches students how to recognize the various types of organic compounds. Students learn how to name and draw organic structures, the reactions involved in their formation and how they react with other compounds. Lectures are reinforced with worksheets and outside readings. This course is weighted.

Biological Chemistry shows how organic compounds are involved in biological functions. Students learn about carbohydrates, proteins, lipids, amino acids, and enzymes. This course involves a large amount of work in the laboratory to reinforce the lectures and worksheets. This course is a prerequisite for Advanced Placement Biology.

483+ GENERAL SCIENCE**Credits: 1**

A course comprising content and processes from two or more areas of science including topics from life, physical and earth and space science, and providing advanced instruction in science, including laboratory-type experiences, but without the depth of content contained in a course (s) in biology, chemistry or physics.

485+ ENVIRONMENTAL SCIENCE**Credits: 1**

The main theme of this course is our relationship to the environment. The student will be taught to recognize our tremendous impact on the natural world and its consequences. The topics will be varied. Incorporated into the class is a unit on how one can relate one-to-one with the environment if placed in a survival situation. Also, the class will investigate how insects co-exist in that same environment.

469 PRACTICAL CHEMISTRY (grades 10-12)**Credits: 1**

In this course, chemistry is applied to everyday life. Chemistry students will learn the basic chemical theory as well as the tools that chemists use. One day of each week on an average will be used by students to perform chemical experiments. The other four days will be used for classroom work. **This course is recommended for students not intending to pursue a career in science or nursing.**

471*#+ PHYSICS**Credits: 1.0**

Suggested Prerequisite - Algebra 2 or enrolled in Honors Algebra 2 Physics 1 is an algebra-based high school physics course in which students explore concepts like systems, fields, force interactions, change, conservation, and waves.

1161 *# PHYSICS 2**Credits: 1.0**

Suggested prerequisites: Algebra 2 & Physics 1

Physics 2 is an algebra-based high school physics course in which students explore fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics.

488*+ CHEMISTRY 2 (LC)**Credits: 1**

Prerequisite: C or better in both 456 and 310

This course builds on the foundation established in Chemistry 1 and Honors Chemistry. Taking Organic & Biological Chemistry prior to taking this course is helpful, but not mandatory. It includes a great review of basic chemistry concepts to help one prepare for college. Students will learn about Redox reactions, acids and bases, chemical kinetics, solutions, solubility and equilibrium. Lectures are reinforced with work in the laboratory and will include qualitative analysis. This course is weighted.

490*+ BIOLOGY 2**Credits: 1.5**

Prerequisite: C or better in 456 or A in 487)

This course is geared for those students who are planning to further studies in science, allied health or medical fields. The class will introduce students to a higher level of biology than that taught in Honors Biology. This class is for those students who want to be challenged and obtain an extended background in biology.

493*#+ ADVANCED PHYSICS**Credits: .5**

Prerequisite: 471 and 310

A second year physics course for students considering careers in Science, Engineering or the Military. This course will expand on background for most college level courses. Some of the topics covered will be: fluids and thermodynamics, electrostatics and electricity, magnetism, optics, light, modern physics. We will also explore ideas of engineering, problem-solving and the relationship between science, engineering, technology and society. Inquiry and projects are part of the curriculum.

494*##+ AP PHYSICS

Credits: 1.0

Suggested Prerequisite : 318 Precalculus

AP Physics is an introductory college-level physics course. Students develop an in-depth understanding of kinematic and dynamic systems, gravitational fields, force interactions, change, and conservation. Students cultivate their understanding of physics through classroom study, graphical analysis, problem-solving, mathematical application, in-class activity, and hands-on, inquiry-based laboratory work.

495*##+ AP COMPUTER SCIENCE PRINCIPLES

Credits: 1.5

Prerequisite: 316 (Completion of 451 is Highly recommended.)

This course is about the fundamentals of computing, including problem solving, working with data, understanding the Internet, cybersecurity, and programming. The goal of the course is to broaden students' understanding of computer science for use in a diversity of majors and careers.

496*##+ AP COMPUTER SCIENCE A

Credits 1.5

Prerequisite: 316 (Completion of 451 is Highly recommended.)

AP Computer Science A is equivalent to a first-semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science A course curriculum is compatible with many CS1 courses in colleges and universities. This course will be taught using a blended model. Students will be expected to attend class daily while working independently on work outside of class. The teacher will serve as a facilitator and will be available for independent support during office hours.

482+ PHYSICAL SCIENCE

Credits: 1

This course is designed as a conceptual approach to physics topics, such as force, work, rate and resistance. Information presented in this course will provide students with basic knowledge about processes and procedures in our technological society. Students will demonstrate their knowledge of these concepts by participating in laboratory experiments and projects. It is recommended that students take Algebra I as a prerequisite.

484*##+ ADVANCED PLACEMENT BIOLOGY (LC)

Credits: 1.5

Prerequisite: 464

(Students will be placed in this course based on individual student achievement data.)

AP Biology is a high level course in the biological sciences designed to assist college bound students in achieving college benefits during their senior year of high school. Colleges and universities give appropriate credits, or advanced placement to students who do well on their AP tests. This course is organized to prepare the student for these placement tests. Animal dissection is part of this course. Students are expected to take the AP Biology examination for this class.

1162*## AP CHEMISTRY

Credits: 1.0

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. Students will obtain an understanding of chemistry foundations to support additional learning in chemistry. This course will develop critical thinking skills and the ability for students to clearly express their ideas and understandings. It will be necessary for students to complete work outside of class. Course Prerequisites: Students should have completed Algebra II and a general chemistry course.

1156* VIDEO GAME DESIGN (gr 10-12)**Credits: 1.0****Prerequisite:** 521 Introduction to Computer Science

The CodeHS video game design curriculum teaches the foundations of creating video games in JavaScript. While this course is introductory, it is an honors-level course. Its curriculum teaches the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem solving skills. Once students complete the course, they will have learned material equivalent to a semester college introductory course in Computer Science and be able to program in JavaScript.

1157* COMPUTING IDEAS (gr 10-12)**Credits: 1.0****Prerequisite:** 521 Introduction to Computer Science

The Computing Ideas course is a first year computer science course introducing the basics of programming with Karel the Dog, the basics of designing a web page, and how information is represented digitally and sent over the Internet. Students will learn to code using blocks to drag and drop, but they can switch between blocks and text as desired. Students will create a personal portfolio website showing projects they build throughout the course. With a unique focus on creativity, problem solving and project based learning, Computing Ideas gives students the opportunity to explore several important topics of computing using their own ideas and creativity to develop an interest in computer science that will foster further endeavors in the field.

1173*# ANATOMY AND PHYSIOLOGY (Rehabilitation Aide) (grades 11-12) Credits: 1.0**Prerequisite:** Biology 1

A study in Anatomy and Physiology involves the integration of the biological and the physical sciences to a very high degree. A basic understanding of the principles of chemistry, physics, and mathematics lays the foundation for the basic understanding of the body's function. The course is designed for those students interested in a medical-related vocation or a career in one of the biological fields. This course is designed to give the student a basic understanding of the anatomy and physiology of the human body. Students are expected to take notes on class lectures and discussions, read assigned materials, and take an active part in all laboratory activities. A comprehensive final shall be given at the end of this semester.

PHYSICAL EDUCATION, HEALTH COURSES, & MEDICAL SCIENCE

(Rehabilitation Aide)

401 FOUNDATIONS OF PHYSICAL EDUCATION (grades 9-12) Credits: .5

Departmental policies require students to be dressed in gym clothes each class period.

Through this course the students will be able to demonstrate basic fundamental skills and movement patterns required in each activity. The students will be able to identify and apply movement patterns, strategies, and tactics as they apply to learning and performance of physical activity. The students will acquire knowledge to achieve and maintain a healthy lifestyle. The students will model individual responsibility and social behaviors in physical activity that will allow for healthy relationships, enjoyment, challenge, self-expression, and social interaction.

410 FRESHMAN HEALTH (grades 9-12) Credits: .5

This course is designed to help students learn to practice healthy lifestyles by making responsible choices. Prevention of addictions relating to drugs and other areas will be discussed. Prevention of AIDS and other sexually transmitted diseases will be stressed. Development of healthy coping strategies, positive attitudes, self-worth, and peer refusal skills will also be addressed. The course will familiarize students with responsible behavior and its effects on self and others. Students will be required to complete several projects to apply health skills to life. At least one of those projects will be completed and presented in cooperative groups.

408* OUTDOOR TEAM SPORTS/ACTIVITIES (quarter 1) (grades 10-12) Credit: .25

408* OUTDOOR TEAM SPORTS/ACTIVITIES (quarter 4) (grades 10-12) Credit: .25

Prerequisite: 401

This course will provide the information and structure required to build quality outdoor team activity units. Sports history, rules, drill and practice routines, and strategies will be covered culminating with game play. Throughout the course activities will include but are not limited to flag football, soccer, lacrosse, field hockey, rugby, ultimate Frisbee, speedball, and softball. Special emphasis will be placed on the student's working knowledge of game play and officiating, offensive and defensive strategies, and honorable sportsmanship through teamwork, cooperation, and respect.

405* ADVANCED PHYSICAL EDUCATION (grades 10-12) Credit .25

Prerequisite: A in 401: 85% in 2 prior PE electives

This course is designed for the student who shows superior athletic and physical abilities. Recommendation by your previous P.E. a teacher based on the criteria listed below is required to enroll in the class. Since the enrollment in this class is limited, the physical education teacher who teaches this class will review all the students who have been recommended and will select those who they feel meet the following criteria. This will be competitive utilizing advanced skills and strategies. Special emphasis will be given to improving the efficiency of the essential aspects of each activity. The course is designed to provide the student with a working knowledge of the rules. It will include theoretical as well as practical application of various sports. This course is designed to enlighten students in areas such as power volleyball, competitive racquet sports, basketball, softball, flag football, floor hockey, soccer, lacrosse, and conditioning activities such as speedball, track & field and many more. The course will require the student to take part in activities outside of the classroom and any expenses will be that of the student. The student will be required to teach a lesson of their choice, with a group or as an individual. There are plans for field trips that may require minimal costs at the student's expense. As the curriculum develops other activities may be added.

409* INDOOR TEAM SPORTS/ACTIVITIES (grades 10-12) Credits: .25

Prerequisite: 401

This course will provide the information and structure required to build quality indoor team activity units. Sports history, rules, drill and practice routines, and strategies will be covered culminating with game play. Throughout the course activities will include but are not limited to volleyball, basketball, soccer, handball, speedball, and floor hockey. Special emphasis will be placed on the student's working knowledge of game play and officiating, offensive and defensive strategies, and honorable sportsmanship through teamwork, cooperation, and respect.

421* RACQUET SPORTS (grades 10-12)**Credits: .25**

Prerequisite: 401

Racquet sports is a designed course for students interested in table tennis, Pickleball, and badminton. This course focuses on the skill components of health fitness, which include agility, speed, coordination, balance, power, and reaction time. Students will understand and participate for the purpose of acquisition in principles of skill development and competition for Racquet Sports that include but are not limited to table tennis, Pickleball and Badminton. Areas of study will include: understanding and execution of offensive and defensive strategies in singles and/or doubles play, development of appropriate dynamic movement practices, and application of scientific principles, sportsmanship, optimal health benefits, application and modification of rules of the game, officiating, and tournament facilitation.

423* STRENGTH & SPEED TRAINING (Q1) (grades 10-12)**Credits: .25****424* STRENGTH & SPEED TRAINING (Q2) (grades 10-12)****425* STRENGTH & SPEED TRAINING (Q3) (grades 10-12)****426* STRENGTH & SPEED TRAINING (Q4) (grades 10-12)**

Prerequisite: 401 & 85% or greater in a previous Physical Education Course

Concepts, components and techniques of power and Olympic lifts are taught in conjunction with the Bigger, Faster, Stronger program. Development of functional core and dynamic warm ups, speed and plyometric training are used on Tuesdays and Thursdays to work in conjunction with weight training to improve speed, strength and agility. This class is designed for students who are interested in challenging themselves physically. Basic record keeping and math skills are required.

1175 SPORTS NUTRITION (Grades 9-12)**Credits: .5**

Sports Nutrition is a course designed to be useful for students who are considering health or coaching careers. A nutrient-based approach will be used as we consider each of the leading nutrients and their effects on the individual. Throughout the semester, the students will identify their own nutritional practices and discuss ideas regarding the correction of any poor practices. They will explore issues including dietary guidelines, MyPlate Food Guide, food labels, healthy cooking, healthy weight and weight loss plans. They will discuss nutritional means of disease prevention, nutrition as it relates to physical activity, and facts and myths about nutrition. Special diets of the young and elderly will be included as well as health claims and current nutrition controversies.

1176 SPORTS MEDICINE 1 (Instructor approval required) (grades 10-12)**Credits: 1.0**

This course will provide the student with an overview of Allied Health Profession. The instructional focus will be on basic emergency care, first aid, CPR, functional anatomy, common athletic injuries, injury assessment, and management. Students will work directly with the Athletic Trainer in an academic and clinical setting.

1178 SPORTS MEDICINE 2 (grades 10-12)**Credits: 1.0**

Prerequisite: Sports Medicine 1

This course is a continuation of the Athletic Training I course. Students will develop general taping skills, stretching, and rehabilitation techniques as they work in a clinical and practical environment. Students will work directly with the Athletic Trainer providing athletic training services to student athletes. This course requires the student to complete observation hours and assist with event coverage after the usual school day.

1179 ADVANCED STRENGTH & CONDITIONING (grades 10-12)**Credits: .5**

Prerequisite: Health Education

Students will explore training, conditioning, and nutritional concepts that can be employed to maintain personal fitness and prevent injury. This course will prepare the student to sit for the Certified Personal Fitness Trainer's Exam.

1180 KINESIOLOGY (grades 10-12)**Credits: .5**

Prerequisite: Health Education and Foundations of PE

Students will learn human skeletal and muscular anatomy, specific muscle movements/biomechanics, and how it relates to movement in human life and in Newton's Laws of Motion. Students will also learn about professions stemming from a Kinesiology Major/background. Students will need to study and have a fluent knowledge of skeletal anatomy and

muscular anatomy. Students will be expected to take notes, tests, quizzes, write papers, and complete projects dealing with the human body and its movements.

1181 HEALTH SYSTEMS AND PROFESSIONS (grades 10-12) Credits: .5

This is an introductory course designed to expose students to the healthcare system and its professions. (RN, CRNA, CRNP, PA, MD, DO, RT, PT, OT, Speech therapy, dentistry, ATC) The history of medicine, healthcare policies, insurance, components of healthcare professions, and legal and ethical issues will be covered. This is also a hands-on course where vital signs, CPR and first response will be introduced. Paired with Medical Terminology.

1182 MEDICAL TERMINOLOGY (grades 10-12) Credits: .5

The language of medicine will be explored through reading, understanding, writing, and pronunciation. Medical abbreviations, symbols, and applications will be covered. HOPS and SOAP methodology will be introduced using current newsworthy events/examples. Paired with Health Systems and Professions.

1183 HEALTHCARE EVIDENCE AND RESEARCH (grades 10-12) Credits: .5

This course presents how to explore the evidence behind medical decision-making. It will explore interpreting, ranking, and understanding medical research. This introduces the evidence-based practice (EBP) used in all professions of medicine.

ART COURSES

007 POTTERY 1 (grades 10-12)

Credits: .5

Pottery making involves the production of various clay pieces that can be both useful and decorative. You will design, build, and decorate a variety of clay pots. The approaches you will use will be pinch, drape, coil, and slab. Later in the course, more advanced, experimental methods will be introduced to gain an array of unique projects using the techniques of hand building.

015* POTTERY 2 (grades 10-12)

Credits: .5

Prerequisite: 007

Pottery 2 is an advanced class in which challenging projects must have outstanding quality. This is your opportunity to use your accumulated knowledge and skills from Pottery 1 to make well-developed, functional pieces. Quality is most important, but you also have to think about creativity. In this class, you will also be introduced to the Potter's Wheel and create several projects from that.

014* VIDEO ART (grades 10-12)

Credits:.5

Recording and editing moving images on a camera is an art form, when done properly. Movie and television production used to be confined to large expensive studio operations. With the advent of digital camcorders and computer editing systems, it has become possible to create your very own professional looking movies and television shows. This course will explore the creative and functional aspects of digital camcorders, digital still cameras, movie editing software, scanners and printers, and how this equipment can be used to educate, sell, document and entertain. Owning your own video editing equipment is not necessary for this course.

010 DRAWING (grades 9-12)

Credits: .5

Learning to draw is the basis for all of the many visual arts. You will learn to use fundamental drawing tools such as pencils, charcoal, pastels, and markers to create many kinds of sketches. A knowledge of drawing people, animals, and other things will be of value to every student, not just the art student. Anyone who has a desire to learn to draw or to draw better should consider this course.

016 ART HISTORY (grades 9-12)

Credits: .5

Art History is an introductory course. Students will study various artworks and artists starting from ancient history time lined up to present day. Students will also study the other disciplines of art consisting of: criticism, studio, and aesthetics and apply them to the study of the history of art. This is a hands-on class and students will be assessed at the end of specific art periods taught through worksheets, tests, and projects.

024 DIGITAL PHOTOGRAPHY (grades 10-12)

Credits: .5

Digital Photography is a beginner course for students to learn to use and take artistic digital photos. Students will learn a brief history of the camera and photography. The elements and principles of design will be implemented as well as light, exposure, shutter speed, aperture, etc. Students will also develop the skills necessary to edit their photos using Photoshop and Illustrator. Students will also be able to combine various shots to create new artwork.

019 JEWELRY DESIGN (grades 10-12)

Credits: .5

Men and women alike, in all areas of the world, wear some type of jewelry. The way a person "decorates" their body can change their appearance and the way others perceive them. This course will introduce you to basic jewelry design from the initial drawing to the completed product. Jewelry can be made out of a wide variety of materials and you will have the opportunity to experiment with a number of different approaches to making body ornaments.

025 JEWELRY DESIGN 2 (grades 10-12)

Credits: .5

Jewelry Design 2 is an advanced level jewelry class and is offered to students who have completed Jewelry Design 1 (with a B or better). Students will be required to create projects that display extensive knowledge of the subject, superior craftsmanship and creativity. Each experience will be carried through with a teacher demonstration period, manipulation of metal when construction takes place and final critiques. Each student will also be required to keep a set of notes on

vocabulary, lectures, sketches and demonstrations of the teacher. Students who complete all the required assignments before the end of the course may use the remaining class time to make whatever jewelry projects they would like. Students will continue to build on their art foundations from previous years in production, art history, studio and aesthetics.

008 3D SCULPTURE (grades 10-12)

Credits: .5

This is a beginning course to introduce you to various sculpture techniques. We live in a three-dimensional world. So you will be exploring this world with the use of a variety of 3-D materials such as: Pariscraft, Sculptimold, plaster, paint, etc. Here's a chance for you to use design principles and elements in three dimensional ways rather than conventional "flat" pictures. Your creative ideas will be used to produce fantastic masks from various cultures, sculptures based off of famous sculptors and more. With the use of many art materials; mobiles, stabiles, and other lively constructions can be created in this class.

020* DRAWING 2 (grades 9-12)

Credits: .5

Prerequisite: 010

Drawing 2 is a continuation of Drawing 1. In this course, students will continue to heighten their drawing skills through observation and learning how to truly "see" the world. Students will study the art of perspective, proportion, the human figure, shading, lighting and more. A variety of drawing media will be used, such as pencil, charcoal, conte crayon, pastel, etc. Additionally, students will study the work of a few artists to observe how professional artists have portrayed and used tools of the trade at various times throughout history. Students will have an opportunity to use the visual ideas learned and to verbally discuss their art and what they are trying to express.

021* PAINTING 2 (grades 9-12)

Credits: .5

Prerequisite: 011

Painting 2 is a continuation of Pen Pencil and paint. Students will study the art of painting and the various painting mediums such as: Oil, Tempera, Acrylic and Watercolor. Additionally, students will study the work of a few artists to observe how professional artists portrayed and used the tools of the trade at various times throughout history. Students will have an opportunity to use the visual ideas learned and to verbally discuss their art and what they are trying to express.

017* POTTERY 3-STUDIO (grades 10-12)

Credits .5

Prerequisite: 007 & 015 with a C or better

Pottery 3 is a studio course in which you will design your projects based off of your prior knowledge from Pottery 1 & Pottery 2. You must present your ideas for projects to the teacher and they must be approved before constructing. Projects must be well thought out with method of construction, size, functionality, embellishments, glazing, and timeline to build. You are required to complete 5 projects in this semester-long course.

1150 CRAFTS (grades 9-12)

Credits: .5

Art has purpose. In fact, it can serve three functions: cultural, personal and functional. Crafts is a branch of fine arts that focus mainly on the functional aspect of art. In intro to crafts, students will explore multiple art processes with various materials using traditional and non-traditional building techniques. Students will be examining the crafts of: Weaving (Loom and non-loom), Ceramics, Metal, Wood, Paper, Glass, Leather and more. The art of craft will build students "Hands on" skills making functional, yet aesthetically pleasing artifacts. Students will continue to build on their art foundations from previous years in production, art history, studio and aesthetics.

1151 DIGITAL MEDIA 1 (grades 9-12)

Credits: .5

The content of this course will offer the student the opportunity to see artists as cutting-edge digital designers and media specialists. Students will study essential design thinking, drawing, and problem-solving skills creating solutions to real-life problems. Students will focus on the use of digital design programs such as: Adobe Photoshop, Adobe Illustrator, Adobe InDesign, and iMovie. Students will continue to build on their art foundations from previous years in production, art history, studio and aesthetics.

1160* DIGITAL MEDIA 2 (grades 9-12)

Credits: .5

Digital Media 2 is a continuation of Digital Media, focusing on film and animation. Students will work to create movies, commercials, and animations and edit them using digital software such as iMovie, Premiere Pro, Adobe Character, and Adobe Animate. Students will learn related vocabulary and types of genres. Students will study essential thinking, drawing, and problem-solving skills creating solutions to real-life problems. Students will continue to build on their art foundations from previous years in production, art history, studio, and aesthetics. (Students need to pass Digital Media 1 C or better)

1152 PAINTING 1 (grades 9-12)

Credits: .5

Painting is a visual art course where students will explore and experience a variety of painting techniques, media, and historical approaches to art. Students will focus on basic techniques in: Tempera, acrylic, watercolor and ink while tying it into their own personal interests, styles and enduring ideas. Students will continue to build on their art foundations from previous years in production, art history, studio and aesthetics.

1154 ADVANCED ART 1 (grades 10-12)

Credits: 1

This course is for sophomores, juniors and seniors, who want to seriously further their artistic skills. Students will focus on advanced techniques in: Drawing (Pencil, Pen, Ink, Colored Pencil etc.), Painting (Tempera, watercolor, etc.), Printmaking, Sculpture, Pottery, Computer, Crafts, and more while tying it into their own personal interests, styles and enduring ideas. Students will continue to build on their art foundations from previous years in production, art history, studio and aesthetics. Material covered in this course should help to fulfill portfolio requirements for admission to an art school for students entering the art field after high school. This is a full year course.

1155* ADVANCED ART 2 (grade 11-12)

Credits: 1

Prerequisite: 1154 Advanced Art 1

Junior or Senior students who have successfully completed Advanced Art 1 (1154) may elect this course to pursue an in-depth study of several selected media. The projects completed in this course should be valuable additions to the student's portfolio. This is a full year course.

1164 AP ART 2D DESIGN (grade 12)

Credits: 1

Advanced Placement Studio Art 2D Design is a year-long, rigorous experience designed for students who are seriously interested in the practical experience of art and wish to develop mastery in the concept, composition, and execution of their ideas. AP Studio Art is not based on a written exam; instead, students submit portfolios for evaluation in early May. In building their portfolios students experience a variety of concepts, techniques, and approaches designed to help them demonstrate their abilities as well as their versatility with techniques, problem-solving and ideation. Students develop work for the three sections of the AP Art Portfolio: Breadth, Concentration, and Quality.

1165 AP 3D ART AND DESIGN (grade 12)

Credits: 1

Students create a portfolio of work to demonstrate inquiry through art and design and the development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes and ideas and sustained investigation through practice, experimentation, and revision, guided by questions.

MUSIC COURSES

354 VOCAL TECHNIQUES 1 (grades 9-12)

Credits: .5

This course is open to any student who wishes to improve their singing technique. The class emphasizes the proper elements of vocal production including specific exercises for improving range, overcoming self-consciousness, and proper vowel and consonant articulation. Art songs, folk songs, songs in other languages, and contemporary singing techniques will be focused on throughout the course.

357 MUSIC THEORY (grades 9-12)

Credits: .5

This course is open to any student who wishes to learn to read music and study the “hows” and “whys” behind western music. Students will work partially in the piano lab. By the end of the course, students will be able to read and analyze basic musical pieces. This course is recommended for beginners or those who play by ear but would like to learn to read music.

359 HARMONY (grades 9-12)

Credits: .5

This course is designed to accommodate the more experienced musician. The student should have had some formal instruction either in band, piano lessons, or Music Theory Class. Fundamental writings of key signatures, time signatures, chords, intervals, melodies, and chord progressions are drilled daily using both teacher and computer assisted methods. As skills develop, more advanced study of chord structure including 7th and 9th chords, inversions, rules for harmonic construction, and chord progressions will be introduced. Writing one's own composition will be a final project.

370/371 CONCERT BAND (grades 9-12)

Credits: .5

The high school concert band class will provide students with in-depth knowledge of their instruments, other instruments, elements of music, proper fundamentals of breathing and posture, age-appropriate band literature, and rehearsal techniques. Special emphasis will be placed on developing musicianship and ensemble responsibility through performance in a variety of settings. The students will also become life-long learners of music and be able to enjoy it through-out their adult life.

361 BAND (grades 9-12)

Credits: 1

The performing organization is **open to students who have completed at least one year successfully in the middle school band program. Auditions may be required** and all musicians will be in both the Marching and Concert organizations. Stage band, musical pit band and other ensembles are a voluntary part of the band program.

362 CHOIR (grades 9-12)

Credits: 1

The choir is a singing group of mixed voices including treble (high) and changed (lowered) voices. Students who sign up for the class will benefit from ensemble singing, proper vocalization, breathing exercises, and sight-singing practice. Attendance at performances is part of the grading process- students should plan to participate in required performances.

363 CHORUS (grades 9-12)

Credits: 1

The chorus is a unique singing group available to treble (high) voices only. Much liked mixed choir, students will benefit from ensemble singing, proper vocalization, breathing exercises, and sight-singing practice. Students will perform for school and community functions. Students will perform for school and community functions. Attendance at performances is part of the grading process- students should plan to participate in required performances.

369 GUITAR 1 (grades 9-12)

Credits: .5

This course is for anyone who wishes to learn how to play basic guitar. In this class students will study the parts of the guitar, and learn how to read both guitar tablature and music written on the staff. Students will learn correct hand positions and how to play basic chords and melodic lines accurately. (Music Theory is recommended along with this course; however, students who do not take Music Theory will be able to keep up).

372 PIANO 1 (grades 9-12)**Credits: .5**

This course is for anyone who wishes to learn how to play basic piano. Students will learn how to read music and a piano staff, how to navigate a five finger pattern through all key signatures, and how to perform rhythms accurately. By the end of this class students will be able to play two hand pieces and simple songs with chords and a melody. (Music Theory is recommended along with this course; however, students who do not take Music Theory will be able to keep up).

WORLD LANGUAGES

261+ GERMAN 1 (Grades 9-12) (One Year)

Credits: 1

This course provides an introduction to the language and culture of the German-speaking world. The student will become familiar with the German sound system through the use of target vocabulary and phrases in listening and speaking. Basic vocabulary and language structure is taught using the method TPRS or Teaching Proficiency through Reading and Storytelling. High-interest serial stories use real-life situations, rich with culture, and interesting characters to present thematic units including greetings and getting to know someone, family, seasons and holidays, and school. Very basic grammatical concepts such as question formation, use of subjects, and direct objects, and the present tense of verbs will be introduced. The cultural context of German is an integral part of the course. Evaluation is based upon oral and aural activities, as well as written measures, such as homework, quizzes, and tests. Resources include books, educational websites, videos, music, foods, and realia.

262+ GERMAN 2 (Grades 10-12)

Credits: 1

Prerequisite: 261 German 1

The second level of German continues the emphasis on the cultural context of the language. Spoken language is a key element within the classroom. Vocabulary and language structure is taught using TPRS (Teaching Proficiency through Reading and Storytelling). High-interest serial stories use real-life situations, rich with culture, and interesting characters to present thematic units including the home and chores, clothing, shopping, restaurants, travel, and leisure activities. Grammar concepts taught enable students to use all four noun cases, past tense, and most prepositions. Students use the language in listening, speaking, reading, and writing activities. Evaluations include aural, oral, and written assignments, quizzes, and tests. Resources include books, educational websites, videos, music, foods, and realia.

263+ GERMAN 3 (Grades 11-12)

Credits: 1

Prerequisite: 262 German 2

The third level of German continues to emphasize the use of spoken German in real-life contexts and also in the classroom. Vocabulary topics from levels 1 and 2 are reviewed and expanded. Much of the basic grammar concepts are completed at this level. Students continue to use the language in listening, speaking, reading, and writing activities. Additional vocabulary themes and cultural topics are taught and the language is practiced through reading and studying novels, popular music, and films. Evaluations include aural, oral, and written assignments, quizzes, and tests. Resources include books, educational websites, films, videos, music, foods, and realia.

264+ GERMAN 4 (Grade 12)

Credits: 1

Prerequisite: 263 German 3

German IV is the fourth year study course in the language. We continue to build on skills developed in the first three years. Students continue to advance in fluency by building vocabulary and demonstrating proficiency in the four areas of speaking, listening, reading, and writing. In addition to extensive vocabulary building, students will also learn use of present perfect tense and place prepositions, use of phrasal verbs, infinitive clauses, genitive case, subjunctive verb usage, past tense forms of modal verbs, the imperfect tense of verbs, and superlative forms of adjectives.

271+ SPANISH 1 (grades 9-12)

Credits: 1

Spanish 1 provides an introduction to the language and culture of the Spanish-speaking world. Students will work to establish good pronunciation patterns and to ensure a firm foundation of basic Spanish vocabulary and grammatical structures. The latter includes sentence and question formation, regular and irregular verb forms in present and past tenses, commands, adjective agreement and adverb use. Activities in the skill areas of reading, listening, speaking and writing will simulate real-life situations. Culture will be integrated throughout the course by use of videos, slides, foods, native speakers, magazines, etc. Evaluation is based on oral class participation, completion of homework assignments, oral and written quizzes and chapter tests. Self-motivated and self-disciplined students will participate in varied activities that will promote student acquisition of the language.

272*+ SPANISH 2 (grades 9-12)**Credits: 1**

Prerequisite: A final average of C or higher in 271

Spanish 2 stresses the continual use of the spoken language in the classroom. Through aural, oral, reading and writing activities students will review those concepts learned in Level 1 and will continue grammatical studies. New concepts will include the formation of stem-changing verbs, formation and position of adjectives, prepositional pronouns, and additional irregular verbs in present and past tenses. These concepts, as well as new vocabulary, will relate to real-life situations. Culture will continue to be integrated throughout the course. Emphasis will be placed on the benefits of Spanish in the social and business world. Evaluation will be based on oral class participation, completion of homework assignments, projects, quizzes and oral and written chapter tests. Self-motivation and self-discipline are very important for success in this course.

273* SPANISH 3 (grades 10-12)**Credits: 1**

Prerequisite: A final average of C or higher in 272

This course stresses the continual use of spoken Spanish in the classroom as well as grammar studies related to the development of aural, oral, reading and written skills. Discussion based on daily routine, communication of physical and medical problems and relating information about personal living situations will be some of the real-life situations stressed along with continued emphasis on cultural topics. Emphasis will be placed on Spanish as an asset to any chosen career. Evaluation will be based on class participation, completion of homework assignments, quizzes, oral and written tests, and original writing. Attitude and effort are also considered in the student evaluation.

274*+ SPANISH 4 (grades 11-12)**Credits: 1**

Prerequisite: A final average of C or higher in 273

Spanish 4 is a refinement of concepts learned at preceding levels along with the introduction of new grammar and vocabulary concepts. At this advanced level new verb tenses including present subjunctive will be introduced. Activities in listening, speaking, reading and writing will simulate real-life situations. There will be continued emphasis on the benefit of foreign language as a career skill. The culture, history, and geography of Spanish-speaking countries will be studied. Evaluation will be based on oral class participation, completion of homework assignments, individual and group projects, compositions, quizzes, and oral or written tests. Since Spanish 4 is a pre-honors course student attitude, effort, and self-motivation are important prerequisites.

275*+ HONORS SPANISH (grade 12)**Credits: 1**

Prerequisite: A final average of C or higher in 274

In Honors Spanish 5 students are expected to **make the effort** to speak Spanish exclusively in class. There will be an increased emphasis on reading and writing in the foreign language. Literature and periodical readings deal with both contemporary issues and culture, as well as with historical events and perspectives. Grammar concepts will be reviewed and refined with the goal of achieving a higher degree of oral and written proficiency. Writing requirements include composition work, a research project and a weekly journal. Students are expected to complete assignments in a self-motivated, self-disciplined manner. While this course will **help** prepare students for the Spanish Advanced Placement test, a student desiring to take this test should notify the teacher early in the school year and do extensive out-of-class preparation specifically geared to the test. A high score on this test **may** lead to credit and/or exemption from courses at some colleges.

BUSINESS COURSES

050 COMPUTER APPLICATIONS (grades 9-12)

Credits: .5

This introductory course is designed to prepare students to use different packages of the Office suite; Word, Excel, PowerPoint, and Publisher will be emphasized. Desktop Publishing techniques will be taught both in Word and in Publisher. Excel will be used to perform calculations both manually and by using function formulas, the creation of charts will also be taught. PowerPoint will be used to help students create effective presentations for classroom use.

053 PERSONAL FINANCIAL MANAGEMENT (grades 9-12)

Credits: .5

This course introduces financial concepts necessary to being a responsible consumer. Topics covered include: career decisions, money management including managing a checkbook, credit management including borrowing money and buying on credit, savings, loans, mortgages, business ownership, the Federal Reserve, government regulation, taxation and risk management.

054* ACCOUNTING I (grades 10-12) (LC)

Credits: 1

Prerequisite: C or higher in a previous Math Course

This course is for anyone who wishes to explore his/her aptitude for accounting-related careers. In this course the student will study the accounting cycle with emphasis on business techniques and procedures and their application to different types of businesses. The student will handle various business forms, process data, and prepare financial statements. A practice set will be completed to increase accounting competencies. Principles and concepts will be reinforced through computer applications.

063 MONEY & BANKING (grades 9-10)

Credits .5

Money and Banking is the class to learn about the economic definition of **money**, where money comes from, how it holds value, how the **banking** system works in the U.S. and how the Federal Reserve uses monetary policy to influence the entire economy. In addition we will learn how money is designed and what security features American currency uses to avoid counterfeiting. We will also learn how to make daily transactions in a checkbook.

2040 INTRODUCTION TO BUSINESS (grades 9-12)

Credits: 1.0

This course will introduce students to the world of business and prepare them for the economic roles of consumer, employee, and citizen. This course will serve as a background for other business courses offered at Shikellamy High School, such as: Accounting, Business Law, Retail Management, and Sports & Entertainment Marketing. The course will also prepare students for future employment, financial literacy, and consumer decision-making.

067* RETAIL MANAGEMENT (grades 11-12)

Credits: .5

Prerequisite TWO of the following 050, 051, 054, 061, 062, 063, 068, 069, 071

This course involves the study of basic retail operations and store management. Curriculum includes consumer behavior, location and site analysis, merchandising practices and policies, retail advertising, and layout and display. Students will gain hands-on experience in managing the school store where they will work in departments such as accounting, advertising, maintenance and stock, personnel, and purchasing.

068 BUSINESS LAW 1 (grades 10-12)

Credits: .5

Business law can be exciting when it relates to common experiences. Every moment that you live, understanding the law is important to you. It helps you to get along better with other people, to know your duties and rights. Do you know: (1) How law affects you as an 18 year old in and out of school? (2) What are your rights in a court of law? (3) How do contracts operate? (4) How does the law protect you when buying property? (5) How does the law control interest rates on loans? (6) The value of warranties in sales agreements? Course content will be drawn from the above topics according to class interest. Class will conduct a mock trial.

069* BUSINESS LAW 2 (grades 10-12)**Credits: .5**

Prerequisite: C in 068

Business Law 2 presents the legal aspects concerning such topics as renting an apartment, buying and financing a car, opening a charge account, applying for a job and many more topics affecting young adults. Class will spend a day in court to see the law in action.

071 INTRODUCTION TO BUSINESS (grades 9-12)**Credits: .5**

This course will introduce students to the world of business and prepare them for the economic roles of consumer, employee, and citizen. This course will serve as a background for other business courses offered at Shikellamy High School, such as: Accounting, Business Law, Retail Management, and Sports & Entertainment Marketing. The course will also prepare students for future employment, financial literacy, and consumer decision-making.

061 SPORTS & SOCIAL MEDIA MARKETING (grades 10-12) (LC) Credits .5

Recommended Courses: 063, 071

The field of sports marketing is rapidly growing. Many colleges and universities offer specializations in this field. The class will explore management principles practiced by successful businesses involved in sports. Topics include leadership, finance, product management, human resources, etc. Additionally, this course will teach students how to create and maintain a social media presence for business, including Facebook, Twitter, Google+, Tumblr, LinkedIn, YouTube, Instagram, etc. Students will learn to use social media and content marketing to grow a business and engage with customers.

074 FOUNDATIONS OF VIDEO PRODUCTION (grades 9-12)(LC) Credits .5

This course introduces students to the fundamentals of digital video production. Students will learn how to produce short videos, including storyboarding and shooting, and will finish productions using current video-and sound-editing software. This course builds on the basic concepts of the video production workflow. Students will develop an understanding of pre-production, production and post-production processes. This is a hands-on, project based course that utilizes digital media concepts which will feature digital media hardware/software tools, techniques and digital media applications. This course is designed to familiarize students with the processes and tools associated with Video Production.

062* INTRODUCTION TO WEB PAGE DESIGN (grades 9-12)**Credits: .5**

Prerequisite: 050

This course will be for the student that is more advanced with their computer skills. Students will learn Access to help them create a database management system for all types of data. Special emphasis will also be given to students that are interested in hand coding web pages. Students will also be introduced to two programs of the Adobe suite: Fireworks, which is an image editing program used in professional websites and Flash, which is an animation program used to create many internet web based games.

066* WEB PAGE DESIGN (grades 10-12)**Credits: 1**

Prerequisite: 062

This course will be for the student that has very savvy computer skills and is interested in the web page design element or the graphics design fields. Students will continue on with the Fireworks and Flash programs from Introduction to Web Page Design and a special emphasis will be on Dreamweaver to help create dynamic web pages. Students will also be designing and creating their own websites.

055* ACCOUNTING 2 (grades 11-12) (LC)**Credits: 1**

Prerequisite: 054

This course is for students interested in accounting-related careers and builds upon the principles and procedures learned in Accounting 1. Students will study financial and managerial systems and procedures including: payroll, petty cash, uncollectible accounts, depreciation, inventory, notes partnerships, and corporations. Part of this course may be conducted on an independent study basis to enable the student to

progress at his/her own pace. Practice sets are included to increase the student's proficiency in handling the total system. Principles and concepts will be reinforced through computer applications and the Internet.

056* ACCOUNTING 3 (grade 12) (LC)

Credits: 1

Prerequisite: 055

This course will expand on the students' knowledge of managerial and financial accounting. Students will study departmental, branch, voucher, manufacturing, and product costing systems. Students will interpret and analyze data for management use and a practice set will be completed to increase accounting competencies.

Principles and concepts will be reinforced through computer applications and the Internet. (This may be an independent study course.)

INDUSTRIAL ARTS COURSES

073 MOBILE APP DESIGN (grades 9-12)

Credits: .5

This course is designed as an introduction to the mobile application design world. The main emphasis of this class will be on creating applications for mobile devices that include Android, Windows and Apple platforms. Projects will include the study of existing games and applications for mobile devices as well as creating productivity apps, social apps and two-dimensional game apps. The app design portion will be completed in the Gamesalad platform creator.

207 METAL TECHNOLOGY 1 (grades 9-12)

Credits: .5

Do you enjoy working with your hands? This course is full of “hands-on experiences” in the areas of machining, casting, forging and sheet metal work. In machining metal, work will be on the lathe, grinder, drill press and milling machine. The process of metal casting makes many of today’s metal objects known as the “foundry” process (in our shop we pour molten aluminum or brass into a sand mold). Forging involves work which is very similar to that of a blacksmith, where metal is heated until red hot, then hammered into shape, (screwdriver blades, cold chisels, ax heads, sledge hammers are all made by this technique). The sheet metal segment includes making patterns, cutting, soldering, welding, bending, forming and finishing. Students are given the option to choose or design their own projects with teacher approval. Projects include toolboxes, lanterns, mailboxes, shooter’s tripod, climbing or permanent tree stands, jack stands, screwdrivers, axes, nail sets, candlestick holders, bookends, belt buckles, door knockers, and a variety of cast wall plaques.

208* METAL TECHNOLOGY 2 (grades 9-12)

Credits: .5

Prerequisite: C in 207

This course will be a continuation of metal working experiences that were learned in Metal Technology 1. More emphasis will be placed on specialization in the machine shop area (metal lathes and milling machines). Forging, foundry, sheet metal work and welding will also be a part of this course. More advanced projects will be required than those made in the Metal Technology 1 course.

210 INDUSTRIAL MATERIALS 1 (grades 9-12)

Credits: .5

The major emphasis of this course will be to introduce students to the fundamentals of woodworking. Proper machine operation and safety in the wood shop will be stressed. Students will learn a variety of woodworking processes as well as sanding, gluing, and finishing techniques. Students will be required to complete at least one and possibly additional projects, depending on the complexity of the initial project.

214* INDUSTRIAL MATERIALS 2 (grades 9-12)

Credits: .5

Prerequisite: 210

Experiences and techniques of Industrial Materials 1 will be the foundation of this course. Many of the same practices and procedures learned previously are built upon to complete a more advanced woodworking project. Additional techniques in cabinetry and tool usage will be covered to have every student become safer and more knowledgeable in woodworking. Familiarity with tools, machines, and techniques for safe usage both in class and for future use in one’s personal life at home, is our ultimate goal.

215* INDUSTRIAL MATERIALS 3 (grades 10-12)

Credits: .5

Prerequisite: 214

The students in this course will be working on an independent woodworking project. They will be using the skills learned in the first two levels. This course level will require advanced methods of wood joinery and finishing techniques, to produce a more complex project.

217* INDUSTRIAL MATERIALS 4 (grades 10-12)

Credits: .5

Prerequisite: 215

This course is designed to help students further expand their woodworking skills. Methods learned in the pre-requisite classes will be incorporated in this course in addition to other fine woodworking techniques. A variety of specialized set ups and operations will be covered as well as processes already learned. There also may be some exercises in

manufacturing or production techniques used by individuals or groups of students as warranted. An advanced project or advanced processes will be required in this course.

219 WELDING (grades 10-12)

Credits: .5

Welding is the process of fusing metal together while in a molten state. The heat source to accomplish this may be from gas or electricity. In this course you will learn how to ARC (stick) weld, gas (oxygen-acetylene) weld, and M.I.G. (Metal Inert Gas) welding. M.I.G. welding will be done on a new “state of the art” Lincoln IdealArc microcomputer-based welder. Cutting steel with an oxygen-acetylene torch will also be taught in this course. Students will learn how to weld butt joints, lap joints, T-joints, corner joints and braze weld. Students will be required to complete at least one project of their choice.

221* WELDING 2 (grades 10-12)

Credits: .5

Prerequisite: 219

This course will be a continuation of welding skills and techniques that were learned in Welding. More emphasis will be placed on Metal Inert Gas (MIG) and Tungsten Inert Gas (TIG) welding. Students will be required to complete at least one welding project.

220 TRADES EXPERIENCE (grades 9-12)

Credits: .5

Do you like working with your hands? Have you ever considered seeking employment in one of the construction trades? If so, this offering is for you. Trades Experience is designed to introduce the student to the construction trades. Receive hands-on experience in the safe use of hand and power tools, as well as learning the basics in the fields of carpentry, electrical occupations, plumbing, welding, and other related areas.

224PC COMPUTER AIDED DRAFTING 1 (grades 9-12)

Credits: 1

Mechanical Drawing is the language that is used by industry to build everything we use. In this course, the student will learn how to draw objects to exact size or to scale. As an introductory course, the student will begin by using the traditional tools like the T-square, the triangle, and the compass. After the students have some background in making drawings, they will go to the C.A.D. system (Computer Assisted Drawing). The student will continue learning how to make three view drawings of an object. They will learn how to dimension the drawings, then they will learn how to make pictorial drawings, section views of drawings, and auxiliary views of drawings. The students will work both on the board and the computer.

227*PC COMPUTER AIDED DRAFTING 2 (grades 10-12)

Credits: 1

Prerequisite: 224

In this course, the students will increase their knowledge of drafting and the C.A.D. system. The student will begin the course by drawing 3D objects using AutoCAD. The student will then explore how to apply movement to the 3D objects. The student will be exposed to other Autodesk programs such as Inventor, Revit, Viz, and Architectural Desktop. The second half of the course will be focused on Architectural Design. This involves creating and reading floor plans, 3D models, and virtual walk through.

228*PC COMPUTER AIDED DRAFTING 3 (grades 11-12)

Credits: 1

Prerequisite: 227

The fundamentals of architecture will be studied in this course. The students who design a home of their choice learn the principles and methods used in building construction. Detailed plans and a perspective drawing of the house are required. Both machine and C.A.D. drawings will be used. After the house is finished, the student will produce a framing and presentation model of their house. The student will do the research for the models and is responsible for its completion.

229*PC COMPUTER AIDED DRAFTING 4 (grade 12)

Credits: 1

Prerequisite: 228

This course will be an independent study offering further advanced work in drafting. The student may choose work in machine design, piping, welding, mapping, or electrical drawing. C.A.D. will be stressed throughout this course.

FAMILY & CONSUMER SCIENCE COURSES

152 FOODS 1 (grades 9-12)

Credits: .5

Foods I is a course designed to explore the basic food groups while teaching safety and sanitation skills needed in food preparation. The course defines the need for students to understand their role in healthy eating to ensure good health in the future. While working in teams, students will gain necessary work skills to ensure success in their future careers. Communications, organization, and conservation skills are incorporated in the weekly foods labs while students learn about nutrition and health responsibilities in their family, career, and community environments.

158* FOODS OF THE WORLD (grades 9-12)

Credits: .5

Prerequisite: 152

In this course, students will compare cuisines, ingredients and preferred cooking methods of various cultures. The influence of traditions and regional and cultural perspectives on food choices and culinary practices will be emphasized. Students will examine the issues and conditions that affect the availability and quality of food in the global market, and apply advanced cooking techniques, including the use of specialty and advanced equipment in the preparation of food dishes.

159 INTERIOR DECORATING AND DESIGN (Grades 9-12)

Credits: .5

In this course we will discuss architectural design and the elements and principles of design and the role of color in design. Things like choosing backgrounds, lighting & accessories and home safety and security systems will also be investigated. Throughout the semester we will complete numerous floor plans and sample boards, as well as doing designs for clients. We will do a weaving project and create faux wall finishes as well as create sample window treatments. There are also two research projects. The final exam in this course is to design your "dream house".

170 FOODS 1A- SPECIALLY DESIGNED TO ADDRESS FOOD ALLERGIES (gr 9-12)

Credits: .5

Foods IA is a course designed to explore the basic food groups while teaching safety and sanitation skills needed in food preparation when you have a food allergy. The course defines the need for students to understand their role in healthy eating to ensure good health in the future. While working in teams, students will gain necessary work skills to ensure success in their future careers. Communications, organization, and conservation skills are incorporated in the weekly foods labs while students learn about nutrition and health responsibilities in their family, career, and community environments.

171* FOODS 2A- SPECIALLY DESIGNED TO ADDRESS FOOD ALLERGIES (gr 9-12 Credits:.5)

Prerequisite 152 or Foods 1A

The Foods IIA course has a variety of applications to everyday life with a food allergy. Students will learn nutrition information to personalize their life, health, and diet. You may find an area of this multifaceted field to study further after leaving high school. You will study the biological and chemical basis of nutrition, food preparation, and processing while learning the scientific principles as they apply to food and nutrition.

1187 CHILD DEVELOPMENT (grades 9-12) (EP)

Credits: .5

This course provides an overview of the theory and principles of human growth and development from conception through adolescence. Content includes an in-depth study of the interrelatedness of physical, cognitive, social, and emotional aspects of development. Development is studied in the context of family, gender, culture, language, ability, socioeconomics, diversity, and society. Special emphasis will be on the theories of Piaget, Vygotsky, Erikson, and Gardner.

GUIDANCE

990 Introduction to Exceptionalities (Education Pathway)(grades 9-12) Credits: .5

This course will focus on the field of special education with the Multiple Disabilities and Life Skills Support Class. Students will work with the class on goals outlined in their individual education plans. The basis of the program will be peer tutoring. Students will also get an introduction to special education. Objectives will be achieved and assessed through active classroom participation, a journal, and project. Participation will play a major part in the grading process in this performance based class. It will be possible for the student to be involved in this course all four years.


Medical Sciences Pathway/Rehabilitation Aide (MP)

Medical Sciences- for students interested in the medical field: Upon completion of the program, students would be able to be employed as a Rehabilitation Aide and prepared for post-secondary school or work. This would provide an introduction to the following fields: **nursing (LPN, RN, CNA), physical therapist, EMT, athletic trainer, strength and conditioning coach, personal trainer, and doctor.**

SHS Courses for Medical Sciences- PE, Health, Kinesiology, Anatomy and Physiology I/II, Sports Medicine, Strength and Conditioning, Health Systems and Professions, Clinical Experience, and Capstone (field experience)

Shikellamy Rehabilitation Aide CTE Program 51.2604

CIP 51.2604	Grade 9	Grade 10	Grade 11	Grade 12
	Exploratory Course	Career & Technical Education Program Courses		
Med Science Pathway Courses	Sports Nutrition (.5)	Medical Terminology(.5)	Sports Med 2 (1)	Capstone (3.0)
	or	Kinesiology (.5)	Health Care Evidence and Research (.5)	ACE or SUN Tech
	Health System and Professions (.5)	Sports Med 1 (1) Advanced Strength and Conditioning (.5)	Anatomy and Physiology (1)	
Academic Courses				
English	Freshman Com Arts or Honors	Soph Com Arts , Reading/Writing Info Text or Honors	Junior Com or Honors	Senior Com or College Writing
Mathematics	Algebra 1, Algebra 2, Geometry Honors	Algebra 2 or Geometry or Honors Algebra 2	Pre-Calc, AP Pre-Calc, Technical Math, Consumer Math	Calculus, Statistics, Technical Math, Consumer Math or Pre-Calc
Science	Ecology, Honors Biology, Chemistry	Biology , Bio 2 or Chemistry	Chemistry, AP Chem, Bio 2, AP Physics, Physics, Phys Sci	Chemistry, Environmental Science, Phys Sci, General Science
Social Studies	Am Hist 1 or Honors	Am Hist 1 or AP Am Hist	Civics and Government	World History
Required Courses	Alg 1 Health 9 (.5) Physical Education (.5)	Biology Soph Com Arts		
Electives	8 electives to graduate			
Articulation Agreement Credit Opportunities			Advanced Placement Credits	

<p align="center">Lock Haven (10.0) B in all program courses and Advanced or Proficient on NOCTI Exam</p>	<p align="center">AP Calculus AP Chemistry AP European History AP English AP Physics AP Statistics AP US History AP Pre-Calc AP Art</p>	
<p>Scheduling Notes:</p> 	Work-Based Learning Opportunities	
	CTE Experience- 36 hours per year)	
	CTE Industry Credentials & Certifications	
	AED/CPR	Bloodborne Pathogens , HIPPA
	Grade 11	Grade 10,11,12

454#+ HONORS BIOLOGY

Credits: 1

Prerequisite: A in 8th grade Science

This course is an advanced course on the introduction to life. The focus is on living things or organisms, their structure and function, as well as their growth and development. Organisms' roles and relationships within the ecosystem and biosphere will be addressed, as the flow between matter and energy is investigated. Modeling, analysis, explanation, and evaluation will be the key science and engineering practices developed as the aforementioned disciplinary core ideas are addressed. Human biology will be the primary focus on topics such as cells, multicellular organization, reproduction, inheritance of traits, and evolution as possible. Rigorous assessments will be the primary grades in this course.

451+ BIOLOGY

Credits: 1

This course is an introduction to life. The focus is on living things or organisms, their structure and function, as well as their growth and development. The flow between matter and energy involving organisms will be investigated. Modeling, analysis, explanation, and evaluation will be the key science and engineering practices developed as the aforementioned disciplinary core ideas are addressed. Human biology will be the primary focus on topics such as cells, multicellular organization, reproduction, inheritance of traits, and evolution as possible.

1173*# ANATOMY AND PHYSIOLOGY (Rehabilitation Aide) (grades 11-12) Credits: 1

Prerequisite: Biology 1

A study in Anatomy and Physiology involves the integration of the biological and the physical sciences to a very high degree. A basic understanding of the principles of chemistry, physics, and mathematics lays the foundation for the basic understanding of the body's function. The course is designed for those students interested in a medical-related vocation or a career in one of the biological fields. This course is designed to give the student a basic understanding of the anatomy and physiology of the human body. Students are expected to take notes on class lectures and discussions, read assigned materials, and take an active part in all laboratory activities. A comprehensive final shall be given at the end of this semester.

1175 SPORTS NUTRITION (Grades 9-12)**Credits: .5**

Sports Nutrition is a course designed to be useful for students who are considering health or coaching careers. A nutrient-based approach will be used as we consider each of the leading nutrients and their effects on the individual. Throughout the semester, the students will identify their own nutritional practices and discuss ideas regarding the correction of any poor practices. They will explore issues including dietary guidelines, MyPlate Food Guide, food labels, healthy cooking, healthy weight and weight loss plans. They will discuss nutritional means of disease prevention, nutrition as it relates to physical activity, and facts and myths about nutrition. Special diets of the young and elderly will be included as well as health claims and current nutrition controversies.

1176 SPORTS MEDICINE 1 (Instructor approval required) (grades 10-12) Credits: 1.0

This course will provide the student with an overview of Allied Health Profession. The instructional focus will be on basic emergency care, first aid, CPR, functional anatomy, common athletic injuries, injury assessment, and management. Students will work directly with the Athletic Trainer in an academic and clinical setting.

1178 SPORTS MEDICINE 2 (grades 10-12)**Credits: 1.0**

Prerequisite: Sports Medicine 1

This course is a continuation of the Athletic Training I course. Students will develop general taping skills, stretching, and rehabilitation techniques as they work in a clinical and practical environment. Students will work directly with the Athletic Trainer providing athletic training services to student athletes. This course requires the student to complete observation hours and assist with event coverage after the usual school day.

1179 ADVANCED STRENGTH & CONDITIONING (grades 10-12) Credits: .5

Prerequisite: Health Education

Students will explore training, conditioning, and nutritional concepts that can be employed to maintain personal fitness and prevent injury. This course will prepare the student to sit for the Certified Personal Fitness Trainer's Exam.

1180 KINESIOLOGY (grades 10-12)**Credits: .5**

Prerequisite: Health Education and Foundations of PE

Students will learn human skeletal and muscular anatomy, specific muscle movements/biomechanics, and how it relates to movement in human life and in Newton's Laws of Motion. Students will also learn about professions stemming from a Kinesiology Major/background. Students will need to study and have a fluent knowledge of skeletal anatomy and muscular anatomy. Students will be expected to take notes, tests, quizzes, write papers, and complete projects dealing with the human body and its movements.

1181 HEALTH SYSTEMS AND PROFESSIONS (grades 10-12) Credits: .5

This is an introductory course designed to expose students to the healthcare system and its professions. (RN, CRNA, CRNP, PA, MD, DO, RT, PT, OT, Speech therapy, dentistry, ATC) The history of medicine, healthcare policies, insurance, components of healthcare professions, and legal and ethical issues will be covered. This is also a hands-on course where vital signs, CPR and first response will be introduced. Paired with Medical Terminology.

1182 MEDICAL TERMINOLOGY (grades 10-12) Credits: .5

The language of medicine will be explored through reading, understanding, writing, and pronunciation. Medical abbreviations, symbols, and applications will be covered. HOPS and SOAP methodology will be introduced using current newsworthy events/examples. Paired with Health Systems and Professions.

1183 HEALTHCARE EVIDENCE AND RESEARCH (grades 10-12) Credits: .5

This course presents how to explore the evidence behind medical decision-making. It will explore interpreting, ranking, and understanding medical research. This introduces the evidence-based practice (EBP) used in all professions of medicine.

401 FOUNDATIONS OF PHYSICAL EDUCATION (grades 9-12) Credits: .5

Departmental policies require students to be dressed in gym clothes each class period.

Through this course the students will be able to demonstrate basic fundamental skills and movement patterns required in each activity. The students will be able to identify and apply movement patterns, strategies, and tactics as they apply to learning and performance of physical activity. The students will acquire knowledge to achieve and maintain a healthy lifestyle. The students will model individual responsibility and social behaviors in physical activity that will allow for healthy relationships, enjoyment, challenge, self-expression, and social interaction.

410 FRESHMAN HEALTH (grades 9-12) Credits: .5

This course is designed to help students learn to practice healthy lifestyles by making responsible choices. Prevention of addictions relating to drugs and other areas will be discussed. Prevention of AIDS and other sexually transmitted diseases will be stressed. Development of healthy coping strategies, positive attitudes, self-worth, and peer refusal skills will also be addressed. The course will familiarize students with responsible behavior and its effects on self and others. Students will be required to complete several projects to apply health skills to life. At least one of those projects will be completed and presented in cooperative groups.

Construction Trades Pathway (CP)



Construction Trades- this program prepares individuals to apply knowledge and skills in the construction technology field. Instruction is provided in the basic skills in a variety of areas associated with building construction such as **carpentry, masonry, plumbing, heating, and electrical**. Instruction includes but is not limited to blueprint reading; cost estimating; hand and power tools; cutting, fastening, and finishing various materials; and applying technical specifications and knowledge concerning the physical properties of materials

Courses for Construction Trades- *Trades, Industrial Materials 1,2,3,4, Electricity, Construction 1, Construction 2, and CAD 1,2,3,4, Summer Construction Experience, and Capstone (cooperative experience in a construction setting).*

CONSTRUCTION TRADES PATHWAY

Shikellamy Construction Trades CTE Program 46.9999

CIP 46.9999	Grade 9	Grade 10	Grade 11	Grade 12
	Early Courses	Career & Technical Education Program Courses		
Construction Trades Pathway Courses	Must take one of the following courses-	Construction Trades 1	Construction Trades 2	SUN Tech
	Industrial Materials Metal Tech Welding 1 Electricity Power Tech (small engine repair)	Summer Construction Trades Experience		Cooperative Education
				SHS
Academic Courses				
English	Freshman Com Arts or Honors	Soph Com Arts , Reading/Writing Info Text or Honors	Junior Com or Honors	Senior Com or College Writing
Mathematics	Algebra 1, **Algebra 2, Geometry Honors	**Algebra 2 or Geometry or Honors Algebra 2	**Pre-Calc, AP Pre-Calc, Technical Math, Consumer Math	Calculus, Statistics, Technical Math, Consumer Math or Pre-Calc
Science	Ecology, **Honors Biology, **Chemistry	Biology , **Bio 2 or Chemistry	Chemistry, **AP Chem, Bio 2, AP Physics, Physics, Phys Sci	Chemistry, Environmental Science, Phys Sci, General Science
Social Studies	Am Hist 1 or Honors	Am Hist 1 or AP Am Hist	Civics and Government	World History

Required Courses	Alg 1 *Health 9 (.5) *Physical Education (.5)	*Biology Soph Com Arts		
Electives	8 electives to graduate			
Articulation Agreement Credit Opportunities			Advanced Placement Credits (Lackawanna College)	
<i>Penn College Of Technology- 4 credits</i>			AP Calculus AP Chemistry AP European History AP English AP Physics AP Statistics AP US History AP Pre-Calc AP Art	
Scheduling Notes:  			Work-Based Learning Opportunities	
			CTE Industry Credentials & Certifications	
			AED/CPR	OSHA-10

2012*PC CONSTRUCTION TRADES (Honors Weighting 1.04) (grade 10-12) (CP) Credits: 2

Instruction is provided in the basic skills associated with building construction such as carpentry, masonry, plumbing, heating, and electrical. Instruction includes but is not limited to blueprint reading; cost estimating; uses of hand and power tools; cutting, fitting, fastening, and finishing various materials; and applying technical specifications and knowledge concerning the physical properties of materials (double instructional period).

2013 SUMMER CONSTRUCTION EXPERIENCE (grade 10-12) (CP) Credits: .5

In Summer Construction Experience, students will cover and complete tasks from the tasklist for CIP Code 46.999. Specifically, they will learn about and work with concrete, block, and brick masonry to be able to complete a large scale group project. There will be two summer sessions for students selected from, one session in June and one in August. The sessions will be a total of four days in length (students only need to attend one session).

2064*PC CONSTRUCTION TRADES 2 (Honors Weighting 1.04) (grade 11-12) (CP) Credits: 2




Construction Trades 2 will be an extension of Construction Trades 1. Students will take on a leadership role in the course and provide support to the younger classes. Students will expand their knowledge of electrical, plumbing and framing while completing various projects throughout the year. Students will also be working on estimating, budgeting and scheduling throughout the school year. Prerequisites: Construction Trades 1, Summer Construction Experience.

Teaching and Education Pathway (EP)

Teaching and Education- for students interested in the education field: Upon completion of the program, students would be able to work as a teacher's aide and be prepared for post-secondary school. This program would provide an introduction to the following fields: **elementary teacher, middle school teacher, high school teacher, special education teacher, daycare, guidance counselor, social worker, and school psychologist.**

Courses for Teaching and Education- *Introduction to Teaching, Child Development, Curriculum and Instruction, Classroom Management, Introduction to Intellectual Disabilities, Multicultural Education, Psychology, Clinical Experience, and Capstone (cooperative experience in a school placement).*

CIP 13.0101	Grade 9	Grade 10	Grade 11	Grade 12
	Exploratory Course(s)	Career & Technical Education Program Courses		
Teaching and Education Pathway Courses	Child Development (.5) Introduction to Exceptionalities (.5)	Introduction to the Teaching Profession (.5)	**Educational Practicum (.5) **Public Speaking (.5)	**Educational Capstone (3.0)
		Curriculum and Instruction (.5)	** Classroom Management (.5)	
		Multicultural Education (.5) Psychology (.5)	** Educational Technology (.5)	
		Academic Courses		
English	Freshman Com Arts or Honors	Soph Com Arts , Reading/Writing Info Text or Honors	Junior Com or Honors	Senior Com or College Writing
Mathematics	Algebra 1, Algebra 2, Geometry Honors	Algebra 2 or Geometry or Honors Algebra 2	Pre-Calc, AP Pre-Calc, Technical Math, Consumer Math	Calculus, Statistics, Technical Math, Consumer Math or Pre-Calc
Science	Ecology, Honors Biology, Chemistry	Biology , Bio 2 or Chemistry	Chemistry, AP Chem, Bio 2, AP Physics, Physics, Phys Sci	Chemistry, Environmental Science, Phys Sci, General Science
Social Studies	Am Hist 1 or Honors	Am Hist 1 or AP Am Hist	Civics and Government	World History
Required Courses	Alg 1 Health 9 (.5) Physical Education (.5)	Biology Soph Com Arts		

Electives	8 electives to graduate		
Articulation Agreement Credit Opportunities		Advanced Placement Credits	Dual Enrollment Credits
Commonwealth University of Pennsylvania (21.0) SOAR Credits Community College of Beaver County (9.0) Delaware County Community College (9.0)		AP Calculus AP Chemistry AP European History AP English AP Physics AP Statistics AP US History AP Pre-Calc AP Art	
Scheduling Notes: ** New Course for 2025-2026 School Year * 903 hours in course work 177 Pre-Professional Experiences (60 per yr) = 1080 total hours		Work-Based Learning Programs	
  			Cooperative Education (3.0)
			Diversified Occupations (1.0)
		CTE Experience/Internship (4.0)	Career Exploration (1.0)
		CTE Industry Credentials & Certifications	
		CPR/ First Aid ALICE	Mandated Reporter / Clearances
		Grade 11	Grade 12

1187 CHILD DEVELOPMENT (grades 9-12) (EP)

Credits: .5

This course provides an overview of the theory and principles of human growth and development from conception through adolescence. Content includes an in-depth study of the interrelatedness of physical, cognitive, social, and emotional aspects of development. Development is studied in the context of family, gender, culture, language, ability, socioeconomics, diversity, and society. Special emphasis will be on the theories of Piaget, Vygotsky, Erikson, and Gardner.

1186 INTRODUCTION TO THE TEACHING PROFESSION (grades 10 -12) (EP) Credits: .5

This introductory course is designed to provide students with a field-based experience and orientation to the profession of teaching. Students will investigate and analyze the culture of schooling and classrooms by exploring various theories, social rules, structures, and current trends and issues in education. Emphasis will be placed on the characteristics of effective teachers and establishing appropriate learning environments for diverse student populations.

Course Topics Include, but not limited to:

- Becoming a Teacher
- Different Ways of Learning
- Student Life in School and at Home
- Purposes of America's Schools and the Current Reform Movement
- Curriculum, Standards, and Testing
- History of American Education
- Philosophy of Education
- Financing and Governing America's Schools
- School Law & Ethics
- Teacher Effectiveness
- Your First Classroom

1185 CLASSROOM MANAGEMENT (grades 10-12) (EP)**Credits: .5**

This course presents best practices in classroom and behavior management - from organizing time, materials, and classroom space to strategies for managing individual and large-group student behaviors, transitions, lab activities, and other arrangements for classrooms in general and special education. Basic federal and state laws as they pertain to the legal procedures for all teachers, including teachers of students with disabilities and ELL students, will be presented.

2010 MULTICULTURAL EDUCATION (grades 10-12) (EP)**Credits: .5**

This course will provide an overview of multicultural teaching to promote equitable education for all learners. The student will explore, theorize, and think critically about language practices, ethnicity, race, and culture across diverse settings (e.g. schools & communities). The students will develop a critical understanding of theory and practice as they foster student-centered teaching approaches that support linguistically and culturally diverse students.

2011 CURRICULUM AND INSTRUCTION (grades 10-12) (EP)**Credits: .5**

The Curriculum and Instruction course will have an emphasis on the following topics: types of curriculum planning and design, fundamentals of lesson planning, writing instructional objectives, presenting types of subject matter, and evaluating a lesson.

2060 EDUCATIONAL TECHNOLOGY (Grades 10-12) (EP)**Credits: .5**

Presents the use of technology to improve the teaching and learning processes. The methodologies and materials used in the course are updated each semester according to current trends, practices, and research in Educational Technology. In addition, the technologies used in the course will be the same ones used and available in the PK-12 schools. Although the computers used in this course are primarily PCs/Chromebooks, students will also be exposed to the Macintosh platform, Google Suite, and other computational competencies. Students will also explore other technology devices for the classroom as they become available.

2061 PUBLIC SPEAKING (Grades 10-12) (EP)**Credits: .5**

Public Speaking is a dynamic course designed to help students build confidence and develop essential communication skills for various real-world situations. Through engaging activities, students will learn how to research, organize, and deliver speeches effectively while honing their ability to think critically and present ideas persuasively. The course covers a range of speaking styles, including informative, persuasive, and impromptu speeches, as well as techniques for managing speech anxiety and connecting with diverse audiences. By the end of the course, students will be equipped with the tools to communicate confidently and purposefully in both personal and professional settings.

2062 EDUCATIONAL PRACTICUM (Grade 11) (EP)**Credits: .5**

Educational Practicum is a one-semester course designed for high school juniors preparing for their senior capstone experience. This course provides students with an introduction to the field of education through a blend of classroom instruction and practical observation. Students will explore teaching strategies, lesson design, and classroom management while gaining firsthand experience by shadowing and assisting mentor teachers in local schools. Through reflective journals and collaborative projects, students will develop critical communication and leadership skills, laying the groundwork for their senior capstone and future academic or career pursuits in education. Students will gain the necessary clearances and industry certifications to be placed in the capstone course. Successful completion of the NOCTI for Fundamentals of Education Test is required.

2063 EDUCATIONAL CAPSTONE (Grade 12)**Credits: 3**

The Educational Capstone Course is a culminating experience designed for high school seniors interested in pursuing a career in education. This course enables students to apply the knowledge, skills, and strategies they've gained throughout the Teacher Pathway program in a real-world educational setting. It emphasizes reflective practice, professional growth, and leadership development in preparation for future studies in education or entry into related fields. Students will be placed in an educational setting for at least 4 hours per day and observed by placement site supervisors.

SHS Cooperative Education Experience

969 Cooperative Education (Co-Op)

This is a form of instruction that takes place in the “real world” and where a student learns by doing. This means that students can earn credit exploring careers and interests while working in a paid position. The student’s individual experience serves as the primary content in the Cooperative Education Experience. Cooperative Education is excellent preparation for future college, technical school, or work opportunities. The Career Coordinator must approve all placements and will supervise and instruct all students on the various aspects of being an effective cooperative education student.

971 Diversified Occupation Course- Full Year

(1 credit hour)

This full year course provides students with practical on the job training for those who are doing cooperative education for a full school year. The program is a cooperative arrangement between the employers and the school. School training, linked with paid work experiences, functions as an organized program of supervised work experiences. During the internship, students will be supervised by the Career Coordinator.

Shikellamy HS Cooperative Education Pathway to Graduation

All students must have 19.5 credits or be a Junior eligible to graduate to participate in Cooperative Education Experience. In addition, all students must have taken an additional English course prior to their senior year or take an English course during their senior year. The Cooperative Education Experience will replace Mathematics, Science, and Social Studies your senior year. Juniors eligible for graduation will need to take additional courses to meet the graduation requirement of 25 credits.

Courses

Diversified Occupations Course- Full year	1 credit
Cooperative Education Experience	3 credits
Elective Credits	1.5 credits
	<hr/>
	25 credits

Mission:

To help Shikellamy High School Seniors bridge the gap between high school and the world of work by providing them a better understanding of today’s work-based learning concepts and strategies to advance in today’s competitive job market.

Description:

Diversified Occupations is a vocational cooperative education program available to high school seniors. The academic and career objectives of each student are used to guide the process of career planning and

acquisition. Classroom theory is applied to employment experiences throughout the school year to enable students to develop and refine the skills necessary to maintain employment.

High School Diversified Occupations:

Students participating in the Diversified Occupations program attend required academic classes and the work-theory class. They are then scheduled for an early release to report to their employer for the work experience. Therefore, Diversified Occupations is a five-credit course; credit is given for the related theory class and for the cooperative work experience. In order to receive the five credits, students must enroll in and pass both the theory class and the cooperative work experience.



The Diversified Occupations program combines “school-based” classroom study in work orientation (job readiness, employability skills, career objective development, and consumer skills) with “work-based” on-the-job career preparation at a training site in government, business, or industry. This program involves a planned partnership with specified connecting activities and responsibilities among the student-learner, parents, school, and employer, and is for 12th grade students only.

ENTREPRENEURSHIP

The Entrepreneurship Pathway is designed to give the students an in-depth look at the skills, knowledge, and competencies necessary to be an effective entrepreneur. In addition, students interested in pursuing a career in business other than entrepreneurship will be provided access to the necessary skills to be successful in the world of business. Coursework and other activities, including marketing to real-world clients and interaction with local business owners, are all designed to give the students a comprehensive look into running a business.

Shikellamy Entrepreneurship CTE Program 52.0701

CIP 52.0701	Grade 9	Grade 10	Grade 11	Grade 12
	Exploratory Course	Career & Technical Education Program Courses		
Entrepreneurship Pathway Courses	Personal Finance (.05) and Intro to Business (1.0) <ul style="list-style-type: none"> Note- 10th graders in Pathway for the 25-26SY will need to take Intro to Bus 	Fundamentals of Entrepreneurship (1.0)	Business Leadership (1.0)	Principles of Management (1.0)
		Accounting 1 (1.0)	Entrepreneurship 2- Creativity, Innovation, and Design(1.0)	Cooperative Education/Capstone Experience (3.0)
		Business Law 1 (.5) Business Law 2 (.5)	Marketing (1.0)	
Academic Courses				
English	Freshman Com Arts or Honors	Soph Com Arts, Reading/Writing Info Text or Honors	Junior Com or Honors	Senior Com or College Writing
Mathematics	Algebra 1, Algebra 2, Geometry Honors	Algebra 2 or Geometry or Honors Algebra 2	Pre-Calc, AP Pre-Calc, Consumer Math	
Science	Ecology, Honors Biology, Chemistry	Biology, Bio 2, or Chemistry	Chemistry, AP Chem, Bio 2, AP Physics, Physics, Phys Sci	
Social Studies	Am Hist 1 or Honors	Am Hist 1 or AP Am Hist	Civics and Government	
Required Courses	Alg 1 Health 9 (.5) Physical Education (.5) Personal Finance (.5)	Biology Soph Com Arts	Note: Total of 4 Credits in Core Courses	
Electives	8 electives to graduate		Accounting 2 (not required-just suggested)	Accounting 2

Articulation Agreement Credit Opportunities		Advanced Placement Credits	
		AP Calculus AP Chemistry AP European History AP English AP Physics AP Statistics AP US History AP Pre-Calc AP Art	
Scheduling Notes:   <ul style="list-style-type: none"> * 903 hours in course work * 135 hours in CTE Homeroom * 42 professional development hours (14 per yr) = 1080 total hours 		Work-Based Learning Opportunities	
		CTE Experience-14 hours per year)	
		CTE Industry Credentials & Certifications	
		OSHA 10-Hour General Safety	A*S*K Certification

053 PERSONAL FINANCIAL MANAGEMENT (grades 9-12)

Credits: .5

This course introduces financial concepts necessary to being a responsible consumer. Topics covered include: career decisions, money management including managing a checkbook, credit management including borrowing money and buying on credit, savings, loans, mortgages, business ownership, the Federal Reserve, government regulation, taxation and risk management.

2057 PRINCIPLES OF MANAGEMENT (Grade 12) LC

Credits 1.0

Introduction to the topic of management, defined as the process of setting and achieving organizational goals, effectively and efficiently, through the use of human and other resources. The four functions of management - planning, organizing, leading, and controlling - provide a framework for the course and are examined in considerable detail. Emphasis on contemporary management issues such as diversity and recognition of the changing face of the American workforce; ethics and social responsibility and their increasingly important role for business; and the growing significance of international business.

NOTE: This course is a Lackawanna College Dual Enrollment Course. Registered students will receive Three (3) College Credits through Lackawanna College upon successfully completing the requirements of the course. There is a cost associated with Lackawanna College Course of \$100 per credit. This cost is non-refundable. Registration and payment are due prior to the first day of school.

2058 MARKETING (Grade 11)

Credits 1.0

Marketing is the business concept of satisfying customer's wants and needs. This course explores using the 4 P's of Marketing; Price, Product, Place, and Promotion in real-world business situations. Students will use hands-on projects rather than tests to discover the exciting field of Marketing. The classroom environment is stimulated by using case studies, projects, guest speakers, and online virtual business projects to learn and grow. Students taking the course should

have an interest in attending college for marketing and/or starting their own business in the future.

2050 FUNDAMENTALS OF ENTREPRENEURSHIP (Grade 10)

Credits 1.0

An entrepreneur is a person who attempts to earn a profit by taking the risk of owning and operating his or her own business. Thousands of people become entrepreneurs each year. They may start their own businesses from scratch, buy existing businesses, or buy franchised businesses. The Entrepreneurship course will teach students the skills necessary to become a successful entrepreneur through a hands-on approach. In this course, students learn about self-employment through reading, research, and classroom activities.

2055 ENTREPRENEURSHIP 2 (Grade 11)

Credits 1.0

Students build on the business concepts they learned in Entrepreneurship I. Students continue to explore the different functions of business, while refining their technology and communication skills in speaking, writing, networking, negotiating, and listening. The purpose of this course is to prepare students to launch a small business venture.

054* ACCOUNTING I (grades 10-12) (LC)

Credits: 1.0

Prerequisite: C or higher in a previous Math Course

This course is for anyone who wishes to explore his/her aptitude for accounting-related careers. In this course, the student will study the accounting cycle with an emphasis on business techniques and procedures and their application to different types of businesses. The student will handle various business forms, process data, and prepare financial statements. A practice set will be completed to increase accounting competencies. Principles and concepts will be reinforced through computer applications.

055* ACCOUNTING 2 (Grades 11-12) (LC)

Credits: 1.0

Prerequisite: 054

This course is for students interested in accounting-related careers and builds upon the principles and procedures learned in Accounting 1. Students will study financial and managerial systems and procedures including payroll, petty cash, uncollectible accounts, depreciation, inventory, notes partnerships, and corporations. Part of this course may be conducted on an independent study basis to enable the student to progress at his/her own pace. Practice sets are included to increase the student's proficiency in handling the total system. Principles and concepts will be reinforced through computer applications and the Internet.

NOTE: This course is a Lackawanna College Dual Enrollment Course. Registered students will receive Three (3) College Credits through Lackawanna College upon successfully completing the requirements of the course. There is a cost associated with Lackawanna College Course of \$100 per credit. This cost is non-refundable. Registration and payment are due prior to the first day of school.

071 INTRODUCTION TO BUSINESS (grades 9-12)

Credits: 1.0

This course will introduce students to the world of business and prepare them for the economic roles of consumer, employee, and citizen. This course will serve as a background for other business courses offered at Shikellamy High School, such as Accounting, Business Law, Retail Management, and Sports & Entertainment Marketing. The course will also prepare students for future employment, financial literacy, and consumer decision-making.

067* RETAIL MANAGEMENT (Grades 11-12)

Credits: .5

This course involves the study of basic retail operations and store management. The curriculum includes consumer behavior, location and site analysis, merchandising practices and policies, retail advertising, and layout and display. Students will gain hands-on experience in managing the school store where they will work in departments such as accounting, advertising, maintenance, and stock, personnel, and purchasing.

068 BUSINESS LAW 1 (grades 10-12)

Credits: .5

Business law can be exciting when it relates to common experiences. Every moment that you live, understanding the law is important to you. It helps you to get along better with other people, to know your duties and rights. Do you know: (1)

How the law affects you as an 18-year-old in and out of school? (2) What are your rights in a court of law? (3) How do contracts operate? (4) How does the law protect you when buying property? (5) How does the law control interest rates on loans? (6) The value of warranties in sales agreements? Course content will be drawn from the above topics according to class interest. The class will conduct a mock trial.

069* BUSINESS LAW 2 (grades 10-12)

Credits: .5

Prerequisite: C in 068

Business Law 2 presents the legal aspects concerning such topics as renting an apartment, buying and financing a car, opening a charge account, applying for a job, and many more topics affecting young adults. The class will spend a day in court to see the law in action.

2056 BUSINESS LEADERSHIP (Grades 11-12)

Credit: 1.0

Are you a leader or an aspiring leader in our school? Do you want to improve your leadership abilities? The Business Leadership course introduces students to key leadership and ethical knowledge and skills, including integrity, trust, accountability, transparency, fairness, and respect. Students will use real-world situations to help strengthen their leadership and ethical decision-making skills through the planning, implementation, and evaluation of a class service-learning project.

SUN AREA TECHNICAL INSTITUTE COURSES

Advertising Art & Design
Auto Technology
Carpentry
Collision Repair Technology
Computer Networking & Technology
Cosmetology
Criminal Justice
Dental Health Technology
Diesel & Truck Technology
Electrical Systems Technology
Health 114 - Nurse Aide
Health 201-PCT
HVAC Technology
Masonry
Electrical-Mechanical Technology
Precision Metalworking
Welding
Wood Design & Technology

Visit: www.sun-tech.org

For complete descriptions of all SUN Area Technical Institute Programs.

APPENDIX- AP/HONORS ENTRANCE CRITERIA

The following are the list of criteria used to determine entrance into Advanced Placement/Honors courses. Criteria has been developed over a period of years and is used to determine which students would be in a position to have a successful experience in these courses. If you do not meet the criteria, but still wish to take the course, please contact your school counselor.

AP History or Government Courses

Grade in last completed history class	A
Keystone Literature Scaled Score	1550+

AP Biology

Grade in last completed science class	90+
Keystone Biology	Proficient/Advanced first time taken

AP English/Junior Honors English

Grade in last completed comm arts class	A
Keystone Literature	Proficient/Advanced first time taken

AP Physics/Honors Chemistry

Grade in last completed science class	A
Grade in last completed math class	A
Keystone Algebra	Proficient/Advanced first time taken

Honors Biology

PVAAS Projection for Keystone Biology	70% or above
Science Grade- 8th Grade	A
8th Grade Science PSSA	Proficient/Advanced

Honors Geometry

Grade in last completed math class	A
Keystone Algebra	Proficient/Advanced first time taken

Honors Sophomore/Freshmen English

PVAAS Projection for Keystone Literature	70% or above
Grade in last completed Comm Arts class	A
8th Grade Comm Arts PSSA	Proficient/Advanced

Honors Sophomore/Freshmen History

PVAAS Projection for Keystone Literature	70% or above
Grade in last completed history/social studies class	A
8th Grade ELA PSSA	Proficient/Advanced

The Shikellamy School District is an equal opportunity education institution and will not discriminate on the basis of race, color, national origin, sex or handicap in its activities, programs or employment practices as required by Title VI, Title IX and Section 504.

For information regarding Civil Rights or Grievance Procedures within the district, please contact the Superintendent of Schools and Title IX Coordinator, Shikellamy School District, 200 Island Blvd., Sunbury, PA 17801, (570-286-3721).