

Bonneville Online High School

2018-19 Course Description Book



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GRADUATION REQUIREMENTS AT BOHS

Full time students (4-6 online credits/semester) attending Bonneville Online High School must complete all of the academic and participation requirements in the online learning community in order to graduate from Bonneville Online High School.

1. Meet all Bonneville Online High School requirements through online participation and attendance
2. Earn a minimum of 46 credits
3. Complete the following required courses:
 - * 8 English credits
 - * 6 Science credits
 - * 6 Math credits- Algebra I and Geometry; 2 credits during senior year
 - * 7 Social Studies credits- US History, Economics, American Government
 - * 2 Humanities credits- Interdisciplinary humanities, fine arts, or foreign language
 - * 1 Communications credit
 - * 1 Health credit
 - * 1 Senior Project
 - * 14 Electives

** Students must take the ISAT*

** Students must take either the ACT, SAT, or ACCUPLACER exam by the end of 12th grade*

Idaho College Admissions Core Standards

Below are the **minimum** required standards for admission to public colleges and universities in Idaho. Students must submit scores from the Scholastic Aptitude Test (SAT) or the American College Test (ACT) before enrolling with these schools. Further, the applicant must be a graduate from a nationally accredited high school. All schools within Bonneville School District 93 are nationally accredited.

English – 8 credits

The District's graduation requirements satisfy this college standard.

Math – 6 credits

Math credits may be obtained through a variety of courses. These courses include, but are not limited to, Algebra 1, Geometry, Algebra 2, Pre-Calculus, and Calculus. *Two (2) additional math credits are strongly recommended for college admission.*

Humanities/Foreign Language – 2 credits

Humanities credits may be obtained through a variety of courses. *Foreign language is strongly recommended for college admission.* Students should check with the guidance counselor at their school to ensure which courses will count towards fulfillment of the humanities credits.

Social Science – 5 credits

The District's graduation requirements satisfy this college standard.

Natural Sciences – 6 credits

At least two (2) credits must involve laboratory science experience. It is advised that students who are continuing on to college pursue two (2) additional credits.

Other – 3 credits

Speech or Debate

Studio/Performing Arts (Arts, Dance, Drama, and Music)

Advanced Foreign Language study

Most Professional-Technical Education courses

Individual colleges and universities may have additional requirements. Contact the admissions office at the institution you are interested in for more information. 10

Technical College Admissions Standards

Idaho's technical college system offers applied technology programs in all six regions of the state. These programs are available at the following locations:

- College of Western Idaho, Nampa
- Professional/Technical Division, College of Southern Idaho, Twin Falls
- Eastern Idaho Technical College, Idaho Falls
- College of Technology, Idaho State University, Pocatello
- School of Technology, Lewis-Clark State College, Lewiston
- School of Applied Technology, North Idaho College, Coeur d'Alene

BYU/Idaho also offers programs in applied technology

Regular admission leading to an AAS degree or certificate requires the following standards:

High School Diploma: with at least a 2.0 GPA

Placement Exam: ACT, or SAT

Mathematics – 4 credits: from courses such as Algebra I, Geometry, Applied Math 1 and 2, Algebra 2, Trigonometry, Discrete Math, Statistics, Calculus or other higher level math courses. Two (2) mathematics credits must be taken as a junior or a senior.

Recommended: 6 credits for those seeking admission to technical programs

Natural Science – 4 credits: including at least two (2) credits of laboratory science from challenging science courses. **Recommended:** 6 credits for those seeking admission to technical programs

English – 8 credits: two (2) credits of Applied English in the Workplace may be counted for English credit.

Other: Professional-Technical courses, including tech prep sequences and organized work-based learning experiences connected to the school-based curriculum, are strongly recommended. Work-Release time not connected to the school-based curriculum will not apply to the requirement.

MATHEMATICS

MTH1003 PRE ALGEBRA A

This course presents students with a formal study of functions, an analysis of sequences and series, counting principles, the binomial theorem, and probability. Students will use technology to employ multiple approaches to problem solving and data modeling.

ALG1000 ALGEBRA I A or ALG1000A ALGEBRA IA

This course covers such key concepts as variables, function patterns, graphs, operations with rational numbers, and properties of rational numbers. Students solve linear equations and inequalities, and study slope, and graphing linear functions.

GEOM1000 GEOMETRY A

This course addresses the basic skills in geometry including reasoning, developing proofs, identifying geometric figures, and constructing figures. Students will develop and apply formulas for area, surface area, and volume of two-dimensional and three dimensional figures.

ALG2000 ALGEBRA IIA or ALG2000A ALGEBRA IIA

In this course, students solve equations, inequalities, and systems. This course also introduces exponential and logarithmic functions, conic sections, probability, statistics, sequences and series.

MTH4004 TRIGONOMETRY A

This course addresses analyzing functions, transformation, and inverse functions. Students will also study vectors, conic sections, parametric curves, and the polar coordinate system. This class is eligible for college credit.

MTH5011 COLLEGE ALGEBRA

This course explores the concepts of Advanced Algebra and prepares students for more advanced topics of mathematics such as trigonometry and calculus. It will expand student's knowledge of the characteristics of algebraic equations and their graphs (i.e. inequalities, polynomial functions, exponential and logarithmic functions, systems of equations, matrices, determinants, and conic sections and their graphs). Supplemental topics include domain and range, polynomial arithmetic, synthetic division, zeroes of polynomials, properties of logarithms, systems of linear and non-linear equations, and operations with matrices. This class is eligible for college credit.

MTH3000 PRE-CALCULUS

This course covers the entire content of college algebra and trigonometry in two (2) trimesters. It is an excellent option for seniors or as a back-up for those students who plan on enrolling in AP Calculus but want more security. **First Trimester:** The concepts of Advanced Algebra will be explored in preparation for more advanced topics of mathematics, knowledge of the characteristics of algebraic equations, and their graphs (i.e. inequalities, polynomial functions, exponential and logarithmic functions, and systems of equations, matrices, determinants, conic sections and their graphs). Minor topics include domain and range, polynomial arithmetic, synthetic division, zeroes of polynomials, properties of logarithms, systems of linear and non-linear equations, and operations with matrices. **Second Trimester:** The concepts of Trigonometry (i.e. general triangles, use of radian measure, graphic representation of trigonometric functions and Trigonometric functions). The concepts of Advanced Algebra will be explored as they relate to trigonometric functions in preparation for more advanced topics of mathematics. Major topics include unit circle trigonometry, trigonometric graphs and domain and range, inverse trigonometric functions, trigonometric properties and identities, trigonometric formulas and solving trigonometric equations, and polar graphs.

MTH4002 STATISTICS

Statistics is a course that covers many areas and professions. Statistics is the science of gaining information from data, both quantitative and qualitative. Students will be expected to do the following: Understand basic probability rules and probability distributions. Use data analysis in collecting, and interpreting data using histograms, bar charts, stem-and-leaf charts, box plots, and numerical measures of center and variation; use statistical inference and hypothesis testing to draw conclusions from data by performing tests involving means, proportions, correlation, and contingency tables; construct and interpret confidence intervals for means and proportions, understand the theory of linear regression and its applications, use one-way ANOVA. **(Coming 2018)**

ELE1088 INTEGRATED MATH I A/ ELE1089 INTEGRATED MATH I B- (Seniors Only)

This course teaches students how to simplify expressions and solve linear equations, introduces basic geometric terms and logic, reasoning, and proof and addresses linear equations in a geographical sense, and parallel/perpendicular lines, first from an algebraic perspective, followed by associated theorems using geometry.

SCIENCE

SCI1044 PHYSICAL SCIENCE - CHEMISTRY/SCI1045 PHYSICAL SCIENCE - PHYSICS

This course addresses key chemistry concepts and processes from properties and states of matter, atomic structure, organizations of the periodic table, types of chemical bonds and reactions, solutions, carbon chemistry, and nuclear chemistry. This course also addresses key physics concepts and processes from force and motions, work, power, machines, energy, optics, electricity, and magnetism. Concepts are explored through animations and videos and will assist students in advanced chemistry and physics courses.

SCI1006 BIOLOGY

This course addresses key concepts and processes from chemistry, cells, cellular respiration, photosynthesis, genetics, and DNA. The scientific method and foundational chemistry facts are presented to assist students in the study of biology. This course also addresses the key concepts and processes of evolution, classification, ecology, and human anatomy. An overview of human body systems, as well as, defining structures of bacteria, protists, fungi, plants, and animals are also explored.

SCI1020 CHEMISTRY

This is a first-year course in high school chemistry. Emphasis is placed on the structure, language, and interaction of chemicals. This is a lab class with numerous labs and demonstrations dealing with chemical reactions. Topics include atomic structure, periodicity, chemical bonding, and molecular structure. Students will be able to make measurements and calculations of chemical reactions and see how chemistry is related to their everyday world. **(Coming 2018)**

SCI1015 ENVIRONMENTAL SCIENCE

This course presents relationships between organisms and how these relationships relate to the functioning of ecosystems. Students learn the key concepts and processes of nutrient cycling, biomes, pollution, energy resources, and habitat destruction. The course also covers ways to promote biodiversity and create a sustainable future.

SCI1019 ASTRONOMY

This course will introduce students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and methods used by astronomers to learn more about the universe. Additional topics include the solar system, the Milky Way and other galaxies, and the sun and stars. Using online tools, students will examine the life cycle of stars, the properties of planets, and the explorations of space.

SCI5013 DUAL CREDIT ANATOMY AND PHYSIOLOGY

This is a college introductory human biology class. This course will be taught at the college level. Topics of study include cells, tissues, and all major body systems and functions. The emphasis is on integration of form and function of human body as well as genetics and ethics. Student will be developing inquiry skills and problem-solving techniques which will provide the student with the basic for making wise career and personal choices in areas related to the biological sciences. The course will also familiarize the student with the influences and interrelated nature of science and technology in contemporary society. Students will investigate the major systems of the vertebrate body through laboratory experimentation, dissection and reading. Emphasis is placed on human anatomy and physiology, and relevance is drawn to health-related occupations.

ELE1073 FORENSIC SCIENCE I

This course focuses on some of the techniques and practices used by forensic scientists during a crime scene investigation (CSI). Starting with how clues and data are recorded and preserved, the student will follow evidence trails until the CSI goes to trial, examining how various elements of the crime scene are analyzed and processed.

ELE1074 FORENSIC SCIENCE II

This course focuses on the analysis of evidence and testing that takes place within this setting. We will examine some of the basic scientific principles and knowledge that guides forensic laboratory processes, such as those testing DNA, toxicology, and material analysis. Techniques such as microscopy, chromatography, odontology, entomology, mineralogy, and spectroscopy will be examined.

SCI5004 DUAL CREDIT BIOLOGY

This is a college introductory biology course. The course covers these areas: molecules, cells, heredity, evolution, organisms, and populations. The goals of the class are to help students develop a conceptual framework for modern biology and an appreciation of science as a process. Pre-Requisite: Biology and Chemistry – Grade B or higher.

SCI5017 DUAL CREDIT ENVIRONMENTAL BIOLOGY

This course is designed to be the equivalent of a one-semester, introductory college course in environmental science. Students will explore and investigate the interrelationships of the natural world, identify and analyze environmental problems, both natural and human-made, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving and/or preventing them. This class will include laboratory and field investigations.

SCI5021 DUAL CREDIT DESCRIPTIVE ASTRONOMY

This course is designed to be the equivalent of a one-semester, introductory college course in astronomy. In this course, the student will explore a broad range of astronomy topics, including the planetary system, stars, galaxies, and the universe. The student will also apply the scientific method and examine the evolution of scientific ideas.

SCI5022A DUAL CREDIT CHEMISTRY

This is an advanced chemistry course for students with an interest and aptitude in the physical sciences. The course will provide grounding in major principles of general chemistry including atomic structure, nomenclature, molecular structure, bonding and stoichiometry. No prior knowledge of chemistry is required.

LANGUAGE ARTS

ENG1000 ENGLISH 9 or ENG1000A ENGLISH 9

This course addresses strategies for reading comprehension, recognition of text structure in exposition and narrative, comprehension of different genres of text, the steps for writing an essay and applying the five-step writing process. The course also addresses basic skills in grammar, punctuation, word usage, spelling, vocabulary, and research and explains how to punctuate and manipulate sentences to produce more effective writing.

ENG2000 ENGLISH 10 or ENG2000A ENGLISH 10

This course helps students develop skills in grammar, punctuation, word usage, spelling, vocabulary and communication skills, such as giving speeches, using visual aids, and workplace communications. This course also focuses on strategies for reading comprehension, explains the writing process, helps students compose personal narratives and literary responses, and provides instruction on perspective and argument.

ENG3000 ENGLISH 11 A/ ENG3001 ENGLISH 11 B

In this course, students continue to develop skills in grammar, punctuation, word usage, spelling, vocabulary, and communication. This course also teaches students about complex writing processes, types of writing, reading strategies, study skills, and models of reasoning. Additionally, students read works from different periods of American literature and examine these texts to learn about various literary devices, forms, styles, techniques, and influences.

ENG4000 ENGLISH 12 A/ENG4001 ENGLISH 12 B

In this course, students continue to develop skills in grammar, punctuation, word usage, spelling, vocabulary, and communication. This course also teaches students about complex writing processes, types of writing, reading strategies, study skills, and models of reasoning. Additionally, students read works from different periods of British literature and examine these texts to learn about various literary devices, forms, styles, techniques, and influences.

ENG 5004 INTRODUCTION TO COLLEGE WRITING

This is an accelerated course which allows students to earn both high school senior English credit and college credit for studying introductory college-level composition. The main focuses include strategies for critical reading, generating ideas for writing, planning and organizing material, and for revising and editing. The course is built to prepare the student for the demands of college reading and writing. Students will write at least four formal papers and construct a writing portfolio. College Credit is available.

ENG 5005 INTRODUCTION TO LITERATURE

This is an accelerated course which allows students to earn both high school senior English credit and college credit for studying college level literature. The main focuses include introduction to the terminology, techniques, and formal characteristics of literary genres—fiction, poetry, and drama. The course provides the general student and the beginning English major with experience in literary analysis which will be expressed in discussion and in writing. Students will write at least one formal paper. College Credit is available.

ENG 5006 COLLEGE WRITING 2

College Writing 2 (English 102) furthers the composition skills developed in English 101, focusing on critical reading, writing, and research. Students will write expository and persuasive essays, using literary and/or interdisciplinary materials. This course also requires a researched essay. Prerequisite: ENGL 101 or equivalent proficiency test score.

COM1002 SPEECH: COMMUNICATIONS

This required course offers instruction in the communication process, human relation skills, listening skills, and speech preparation and delivery. The course prepares students to engage critically, constructively and effectively in a wide range of communication situations. Intrapersonal, interpersonal, group, and public speaking skills will also be topics of instruction and presentation in the online classroom environment through the use of video uploads and peer editing will occur.

COMM5001 DUAL CREDIT COMMUNICATIONS: FUNDAMENTALS OF ORAL COMMUNICATION

This is a course intended to improve your communication abilities in a variety of academic, social, personal and business settings. Emphasis is placed on the communication process, public address, small group discussion, and listening.

(Coming 2018)

SP4000 SENIOR PROJECT

This required course is reserved for full time online students attending Bonneville Online High School and will receive a diploma from BOHS. There are four components of the Senior Project: (1) The Product/Project, (2) The Research Paper, (3) The Portfolio, and (4) the Presentation.

HUM1011 WORLD MYTHOLOGY-Mythology and Folklore

Mighty heroes. Angry gods and goddesses. Cunning animals. Since the first people gathered around fires, mythology and folklore has been used as a way to make sense of humankind and our world. Beginning with an overview of mythology and different kinds of folklore, students will journey with ancient heroes as they slay dragons and outwit gods, follow fearless warrior women into battle, and watch as clever monsters outwit those stronger than themselves. They will explore the universality and social significance of myths and folklore, and see how these are used to shape society today. Fills Humanities or Elective Credit.

ELE1005 READING FOR ENJOYMENT

Students will read a variety of literary genres as they increase their enjoyment and understanding of literature. Fills Humanities or Elective Credit.

HUM1021 CREATIVE WRITING 1

This course is designed to stimulate the use of imagination in expressive writing. By using various writing techniques, students will develop their own writing styles and create original poetry, fiction, and drama. Fills Humanities or Elective Credit.

ELE1108 LORD OF THE RINGS: FILM & LITERATURE

This course will focus on one of the most popular stories in the modern world. Students will study the movie versions of J. R. R. Tolkien's novel and learn about the process of converting literature to film. Students will explore fantasy literature as a genre and critique the three Lord of the Rings film. Fills Elective Credit.

ELE1075 GOTHIC LITERATURE

From vampires to ghosts, these frightening stories have influenced fiction writers since the 18th century. This course will focus on the major themes found in Gothic literature and demonstrate how the core writing drivers produce, for the reader, a thrilling psychological environment. Terror versus horror, the influence of the supernatural, and descriptions of the difference between good and evil are just a few of the themes presented. By the time students have completed this course, they will have gained an understanding of and an appreciation for the complex nature of dark fiction. Fills Humanities or Elective Credit.

SOCIAL STUDIES

WHS1001 WORLD HISTORY

This course contains lessons addressing historical periods from Prehistory through Globalization in the 21st century. Each multimedia lesson is designed to teach the major concepts for each historical period through text, visual aids, activities, and assessments.

US2000 US HISTORY 10

This course is designed to provide students with a survey of United States History beginning with North American pre-history and continuing through the late nineteenth century. The first semester will begin with the migration of peoples to North America and will continue through nationalization and sectionalism. The second semester will begin with the reforming of American society and will continue through the taming of the Western Frontier.

US3000 US HISTORY 11

This course contains lessons addressing historical periods from the American Revolution to Globalization and the 21st century. The lessons address key concepts, important historical figures, and significant events to help students gain an understanding of the political, economic, military, and social structures of the early years of the United States through its emergence as a global superpower.

GOV4000 AMERICAN GOVERNMENT

This course covers the foundations of American government, political behavior, and the three branches of the Federal government.

ECO1001 ECONOMICS

This course addresses concepts of economics, including a review of the American free enterprise system. Students learn about markets, business and labor, and banking and finance in the microeconomics sections, and then learn about measuring economic performance, the government's role in the economy, and international trade and development in macroeconomics section.

ECO5003 DUAL CREDIT MACROECONOMICS

This course includes organization and operation of the American economy, supply and demand analysis, money and banking, employment and aggregate output, public finance, and economic growth.

ECO5002 DUAL CREDIT MICROECONOMICS

Principles of governing production, price relationships, and income distribution and their application to selected problems. **(Coming 2019)**

HUM1002 PEOPLE AND PLACES - Human Geography

How do language, religion, and landscape affect the physical environment? How do geography, weather, and location affect customs and lifestyle? Students will explore the diverse ways in which people affect the world around them and how they are affected by their surroundings. Students will discover how ideas spread and cultures form, and learn how beliefs and architecture are part of a larger culture complex. In addition, to introducing students to the field of Human Geography, this course will teach students how to analyze humans and their environments.

ELE1009 PSYCHOLOGY

Through group discussion, panel presentations, experiments and lectures, the study of psychology is explored. The emphasis is on the student as a unique individual, with the history and theory of psychology presented as background information.

ELE1010 SOCIOLOGY

Today's social problems are the basis for this course in sociology. Each student has an opportunity to study a particular social problem in depth. Panel, group discussions, lectures, case studies and personal experiences will enable the student to become aware of group relationships and social structure in society.

WHS1003 WORLD GEOGRAPHY

This course will cover world geography including the five basic themes of geography. Students will review the major religions and cultures in the modern world and learn a variety of map skills and landforms. The course will also cover the locations of countries within the world today. Fills Humanities or Elective Credit.

HUM4010 INTRODUCTION TO POLITICS, CRITICAL THINKING AND ANALYSIS

Students learn to comprehend and critically analyze discourse and writings on political and social issues, to identify errors in the logical or presentation of facts in political discourse, to be able to demonstrate independent political judgment by formulating logically valid and factually sound arguments. College Credit is available.

ELE1059 DUAL CREDIT PSYCHOLOGY

This survey course is an introduction to psychology. Psychology is the scientific study of thinking, emotion, and behavior. This course introduces students to the diverse research areas of psychology such as psychobiology, motivation, learning, cognitive and social processes, personality, and abnormality, emphasizing empirical findings of the discipline. College Credit is available.

ELE1060 DUAL CREDIT SOCIOLOGY

This course presents the basic concepts, principles, and processes in sociology along with an introduction to material relating to culture, social interaction, institutions, and social change. **Offered through Idaho Digital Learning Academy.**

GOV5000 AP/DC AMERICAN GOVERNMENT

This course is geared toward students who want to take the AP Exam, earn enrollment credit through ISU, and want an in depth study of the American Political System. Students will engage in an intensive study of the formal and informal structures of government, its process, and the foundation of the American Political system. Making and implementing policy will be emphasized. College Credit is available.

US5006A DUAL CREDIT US HISTORY 10

This course is designed to provide students with a survey of the United States History beginning with North America pre-history and continuing through the late 19th century. The first trimester will begin with the migration of peoples to North America and will continue through The War of 1812. The second trimester will begin with Manifest Destiny and will continue through the settling of the West.

US5002 DUAL CREDIT US HISTORY 11

This course is designed for students who plan to take the AP Exam at the end of the year. The course is an accelerated program that requires a great deal of individual research and study. The first trimester will begin with the Second Industrial Revolution and continue through the 1920s. The second trimester will begin with the New Deal and will continue through the 1970's. In addition, a thorough review will be conducted during the second trimester. **(Coming 2019)**

HUM1096 WORLD RELIGIONS

This course focuses on the major religions that have played a role in human history, including Buddhism, Christianity, Confucianism, Hinduism, Islam, Judaism, Shintoism, and Taoism. Students will trace the major developments in these religions and explore their relationships with social institutions and culture. The course will also discuss some of the similarities and differences among the major religions and examine the connections and influences they have. Fills Humanities or Elective Credit.

HIS1005 WORLD WAR II & THE HOLOCAUST

This course will help students understand the events leading up to and taking place in World War II and the Holocaust. The events, people, places and policies that shaped the actions, thoughts and feelings of those who lived through it will be researched. Reflections and comparisons to more recent events and present day will also be an element of this course. Due to some content of the historic subject matter, a completed parent permission form will be required to take this course. The form will be available in the counseling center and at the first day of the course. Fills Humanities or Elective Credit.

ELE1109 THEATER, CINEAM & FILM PRODUCTION

Lights! Camera! Action! This course will introduce students to the basics of film and theater productions. Students will learn about the basics of lighting, sound, wardrobe, and camerawork for both film and theater settings. The course also explores the history of film and theater and the influence that they have had on society. Students will analyze and critique three influential American films, Casablanca, Singin' in the Rain, and The Wizard of Oz. [Fills Elective Credit.](#)

PHYSICAL EDUCATION

PE1000 PHYSICAL EDUCATION I

In this course, students will experience the many benefits of regular physical activity, proper nutrition, and sound decision making. Students will assess their current physical condition and define personal goals. Students will apply fitness training principals, enhancing improvement in health and skill-related areas of fitness.

PE1004 PHYSICAL EDUCATION II

Students will start by assessing their physical condition. They will keep a workout log to measure their progress. In addition, they will have a teacher who will support and assist each student in achieving their personal, realistic goals.

HLT1000 HEALTH

This course addresses topics in mental health, social health, nutrition, physical fitness, substance abuse, human development, and preventing disease. This course emphasizes the physical and emotional benefits of making healthy choices and discusses consequences of unhealthy behaviors. Critical thinking is encouraged through the use of open-ended questions, assessments, and videos that present real-life situations.

CAREER AND TECHNICAL EDUCATION (CTE)

PTE1077 DIGITAL PHOTOGRAPHY

The Digital Photography I course focuses on the basics of photography, including building an understanding of aperture, shutter speed, lighting, and composition. Students will be introduced to the history of photography and basic camera functions. Students will use the basic techniques of composition and camera functions to build a portfolio of images, capturing people, landscapes, close-up, and action photographs.

PTE1000 DIGITAL CITIZENSHIP

Content: This course is designed to help prepare students for a future filled with technology. Students will learn how to use technology as a tool for learning. Students will gain knowledge on how technology is used in High School, Higher Education, and the workplace. Students will also gain an understanding on how to safely and effectively use current and emerging technologies such as the internet, email, computers, web 2.0 tools, and social networking. This is taught as a fully online or blended class and most or all of the content will be delivered to students over the internet.

PTE1010 WEB DESIGN I

Students will learn Internet basics, HTML, and the file structure of a well-organized Web site. They will practice creating visually interesting web pages with clear text, complimentary colors, visual assets, and appealing designs. Students will also become well-versed in Web site navigation, style sheets, graphic creation, digital image optimization, security, and server hosting.

PTE1102 INTRO TO PROGRAMMING A - JAVA

This course is designed for complete beginners with no previous background in computer science. The course is highly visual, dynamic, and interactive making it engaging for new coders. Students learn the fundamentals of programming with an emphasis on problem solving and logical thinking. Topics covered include: graphics, animation and games, data structures, and more.

PTE1103 INTRO TO PROGRAMMING B - PYTHON

In this course, students learn the fundamental concepts of programming – concepts that can be applied in the study of any programming language. Students also dive into specific features of the Python programming language.

PTE1133 CYBERSECURITY

SEC introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in SEC, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

ELE2016 GRAPHIC DESIGN/TECHNOLOGY

This course will help students apply artistic and computer techniques to the interpretation of technical and commercial concepts. Topics covered may include computer assisted art and design, printmaking, concept sketching, technical drawing, color theory, imaging, studio techniques, still life modeling, and commercial art business operations.

ELE6190 GRAPHIC DESIGN II

This course will help students continue applying artistic and computer techniques to the interpretation of technical and commercial concepts. Students will focus there learning on the use of the Adobe Suite software Photoshop, InDesign, and Illustrator to create interesting designs from scratch. They will also spend time mastering 3D Design principles using TinkerCad, MakerBot and other design/drafting software. **(Coming 2018)**

PTE MOBILE APPLICATIONS

This course will have students design and build applications to run on their own smartphones and will use the latest tools and technologies available for mobile app development. Students will learn about the fundamentals of building mobile apps with React Native, mobile app structure, using the various components of user interaction, and the basics of custom functionality. **(Coming 2018)**

PTE 1004 BUSINESS COMPUTER APPLICATIONS I

This course is designed to acquaint students with basic principles and terminology associated with information processing needed for higher educations and the working world. The course includes an introduction to operating systems, word processing, spreadsheets, presentations, Internet, and email. Students will use Microsoft Office suite consisting of Word, PowerPoint, Excel, and Publisher, as well as Windows Movie maker.

ELE1025 WORK-BASED LEARNING

Work-based learning provides students the opportunity to work for pay and experience and earn school credit as they learn work-related skills that will help them be successful as future workers and students. Students complete a work contract signed by themselves, a parent or guardian and their supervisor at work. Students submit check stubs to verify hours worked. Students must work an average of eight (8) hours per week and complete all assignments for each credit.