POWELL HIGH SCHOOL
ESTABLISHED 1916

POWELL HIGH SCHOOL COURSE CATALOG

Authored by Powell High School Faculty
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ENGLISH

ENGLISH I: This is the first high school course focused on reading and writing. It will prepare you for everything else.

HONORS ENGLISH I: This is where we will lay the foundation for honors level analysis and writing and prepare you for future honors and AP courses. Major works include *To Kill a Mockingbird*, *Frankenstein*, and *Romeo and Juliet.*

ENGLISH II: Students read and analyze a variety of texts including plays, novels, and informational texts. They will focus on three types of writing: explanatory, argumentative, and narrative.

HONORS ENGLISH II: This course is designed to help students strengthen skills in reading, writing, thinking, and comprehending at an advanced level. The ultimate goal of the course is to prepare students for AP, Dual, and other post-secondary opportunities.

ENGLISH III: English 3 is the required college prep course for 11th graders. In this class, you'll read famous literature from classic American authors. This class pairs well with U.S. History because we will look at famous speeches from influential American figures.

AP LANGUAGE: This course centers around building skills in three types of writing: argumentation, rhetorical analysis, and synthesis. Students will learn to analyze a variety of texts and write about them with authority.

ENGLISH IV: In this course, we will be reading, discussing, and writing about a variety of fiction and non-fiction texts from mostly British writers and spend some time learning about how the English language began, how it has evolved over time, and how it is used for communication.

AP LITERATURE: In this course, we use college-level literature skills to examine our place in the world. We read engaging texts that often allow for student choice.

DUAL ENROLLMENT ENGLISH: Dual Enrollment is a way for high school seniors to earn college and high school credit for the same course, simultaneously. It lets you get a head start on college and can even help you save money in the process.

MATH:

ALGEBRA IA: As an elective, the goal of Algebra IA is to rev up students' Middle School Math skills and introduce Algebra I.

ALGEBRA IB: Algebra IB puts the finishing touches on the Algebra I experience, and gives students' the Algebra I graduation credit.

ALGEBRA I: Study of patterns, equations and functions.

HONORS ALGEBRA I: Study of patterns, equations and functions, but more in-depth and intense than regular Algebra 1.

GEOMETRY: Geometry is concerned with properties of space that are related with distance, shape, size, and relative position of figures.

HONORS GEOMETRY: Honors geometry is concerned with properties of space that are related with distance, shape, size, and relative position of figures.

ALGEBRA IIA: As an elective, the goal of Algebra IIA is to rev up students' Algebra 1 skills and introduce Algebra II.

ALGEBRA IIB: Algebra IIB puts the finishing touches on the Algebra II experience, and gives students' the Algebra II graduation credit.

ALGEBRA II: Algebra 2 explores a deeper understanding of functions that you learned in Algebra 1. This class prepares you for Precalculus or Applied Math.

HONORS ALGEBRA II: Algebra 2 explores a deeper understanding of functions that you learned in Algebra 1. This class prepares you for Honors Precalculus.

PRE-CALCULUS: Precalculus is a Journey of Functions. The course begins with an overview of functions, including graphing and describing functions. Then the course will take a deeper dive into several parent functions, including polynomials, rationals, exponential, and

trigonometric functions. Precalculus is an excellent preparatory course for college algebra or calculus.

HONORS PRE-CALCULUS: Honors Precalculus is a Journey of Functions. The course begins with an overview of functions, including graphing and describing functions. Then the course will take a deeper dive into several parent functions, including polynomials, rationals, exponential, and trigonometric functions. Precalculus is an excellent preparatory course for AP Calculus, college calculus, or college algebra.

APPLIED MATH: Applied Mathematical Concepts is a senior level math course focused on application and has industry needs in mind. It comprises a variety of topics including linear programming, data organization, normal distribution, financial math and logic. It is intended for students interested in careers that use applied mathematics such as banking, industry, or human resources.

BRIDGE MATH: Bridge Math is a "refresher" course. It reviews content from Algebra 1, Algebra 2 and Geometry that has already been presented to you. Assignments are given in Delta Math.

AP CALCULUS AB: In AP Calculus AB, we study how functions change. Success on this AP exam could get you credit for Calculus 1 in college.

AP CALCULUS BC: In AP Calculus BC, we extend material from Calculus AB as well as sequences and series. Success on this AP exam could get you credit for Calculus 2 in college.

AP STATISTICS: The art and science of making decisions in the face of uncertainty. The class where being left skewed in better than normal any day.

DUAL ENROLLMENT MATH: Dual Enrollment is a way for high school seniors to earn college and high school credit for the same course, simultaneously. It lets you get a head start on college and can even help you save money in the process.

SCIENCE:

AP ENVIRONMENTAL SCIENCE: AP Environmental Science provides students with scientific principles, concepts, and methodologies to understand the interrelationships of the natural world. The course helps students identify and analyze natural and human-induced environmental problems.

ANATOMY: Want a fun and exciting course that is relevant to everyday life? Anatomy is a course teaching you all about how the human body works which is important to know even if you are not interested in a career in the health field.

HONORS ANATOMY: Are you interested in entering a health field career? Honors Anatomy is a fun and essential course to take which will prepare you for this path by teaching you how the body functions.

BIOLOGY: Biology is a required course for graduation as mandated by the Tennessee Diploma Project. Biology is a natural science studying life and living organisms with emphasis on Cellular Processes, Genetics, Biodiversity, and Ecology.

HONORS BIOLOGY: Biology is a required course for graduation as mandated by the Tennessee Diploma Project. Biology is a natural science studying life and living organisms with emphasis on Cellular Processes, Genetics, Biodiversity, and Ecology. Honors Biology moves through the curriculum at a faster pace and more in-depth than Biology I CP.

AP BIOLOGY: Are you interested in doing more labs and gain a deeper understanding of how organisms work? AP Biology will prepare you for college while giving you the lab experience you need to be successful.

CHEMISTRY I: According to the Tennessee Diploma Project, chemistry is a required course that is necessary for graduation. Therefore, this semester we will embark on a journey to discover the world of matter, and since matter makes up everything, chemistry is really a study of the pieces and parts that make up the world you live in, as well as you.

HONORS CHEMISTRY I: According to the Tennessee Diploma Project, chemistry is a required course that is necessary for graduation. Therefore, students will be challenged to explore the world of matter in three dimensions, as they focus on core ideas, crosscutting concepts, and the application of practices.

HONORS CHEMISTRY II: Honors Chemistry 2 teaches the necessary problem solving and laboratory skills (atomic structure, intermolecular forces, chemical bonding, and chemical reactions) that students planning to pursue a career in science will need to be successful. This class is required for students who plan to take AP Chemistry in the Spring semester, but continuing to AP Chemistry is not required.

AP CHEMISTRY: The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students grow their understanding of chemistry through inquiry-based investigations and labs, as they explore content such as: kinetics, thermodynamics, and acid/base equilibrium.

PHYSICS: Come explore the fundamentals of the universe and find out the ultimate answer to the question, "Why?" Learn how to problem solve and think critically while building popsicle stick bridges, catapults, and a gravity simulator in lab.

HONORS PHYSICS: Come explore the fundamentals of the universe and find out the ultimate answer to the question, "Why?" Learn how to problem solve and think critically while building popsicle stick bridges, catapults, and a gravity simulator in lab. Honors Physics moves at a faster pace and covers topics more in-depth than Physics.

AP PHYSICS: From kinematics to thermodynamics to electrostatics, take a deeper dive into understanding the fundamentals of how the universe works. Lab experiments to accompany most concepts.

GEOLOGY: Geology is the study of the Earth's origin and the processes that brought the planet to its current form. Geology explores the structure, history and composition of our favorite planet. As we continue to explore Mars and possibly return to the Moon, learning about our own planet helps us plan for what we may encounter on other worlds.

MARINE ECOLOGY: Have you ever wanted to learn about the ocean and all the strange things that live there? If so, Marine Ecology is the course for you. Students will learn about different ocean habitats and the organisms that live in them.

ECOLOGY: Ecology will help students gain an understanding of environmental issues in their world along with global issues. It is the goal of this class to make sure each student understands the interconnectedness of our world and the part they must play in ensuring a sustainable world.

PHYSICAL SCIENCE: The goal of Physical Science is to introduce students to basic concepts in chemistry and physics and develop a basic understanding of matter and energy. Physical Science is an elective course typically taken by freshmen as an excellent preparatory course for chemistry.

SOCIAL STUDIES

WORLD HISTORY: Students will study the violence and world-shattering events of revolutions across the world, the impacts of the Industrial Revolution on your life today, the tragedy and heroism of the world wars, and the nuclear tensions of the Cold War.

AP HUMAN GEOGRAPHY: If you are creative and interested in humanity and other cultures, you will love this course. We will have class discussions and create projects while embarking on a journey for an up-close examination of the following: Geographical-tools Population and Migration Cultural Interaction Political Structures Rural and Urban land Use Economic Development Join us and see how far the adventure will take you!

US GOVERNMENT/CIVICS: This course will provide you with an overview of how the government of the United States is supposed to function and how it actually does function. The two aren't always the same thing. We'll be learning about the branches of government, politics, elections, political parties, and much more!

AP GOVERNMENT: The universe of information we live in is a complicated web of messages with a mind-blowing array of sources, biases, and agendas. This course will guide you through how to receive and interpret information using the Constitution as a guide.

ACT PREP: ACT Test Prep is a 9-week course designed to increase student awareness of the importance and significance of preparing for and improving their ACT college entrance exam score. Students will become more confident of their ability to work with various concepts, test-taking strategies, as well as, a thorough review of ACT English, Math, Reading, and Science skills. Active involvement in and successful completion of the course, should lead the student to greater confidence and higher scores on the ACT exam. Students will also explore college and

career options and opportunities through a series of on-line activities, in addition to college and technical school guest speakers.

US HISTORY: U.S. History provides a thorough overview of significant events in the United States beginning with Reconstruction and ending with present day issues with topics that range from U.S. involvement in the World Wars, cultural events such as the Harlem Renaissance, and political scandals such as Watergate. Students will investigate how these past events, economic and political policies, and cultural milestones have changed the current American landscape and continue to impact us today.

AP US HISTORY: AP US History is a college-level course where students will act as historians to study important events in the United States between 1491 and the present to see how society, economics, and politics have changed to create the world today. Topics of interest include, history through the perspective of minorities, wars like the Spanish-American War, the Prohibition Era, gender issues, and cultural changes throughout history like types of clothing, music, and art.

ECONOMICS: Economics is the study of how individuals, businesses, and governments react to situations in order to make the best choices to increase productivity and wealth.

AP ECONOMICS: AP Macroeconomics is a college-level course that studies the economy as a whole to understand how choices are made to increase wealth and productivity overall in society. You will learn how to use graphs, charts, and data to determine how the economy is doing by focusing on big issues such as income, unemployment rates, and production levels.

PERSONAL FINANCE: Personal Finance is a course designed to inform students how individual choices directly influence career goals, personal goals, and future earnings potential. Real world topics covered include income, taxes, money management, spending and goals, credit, as well as saving and investing for the future. It's about you and your money.

WORLD LANGUAGE

FRENCH I: Learn how to speak about the world around you in French using the present (the here and now). Gain an understanding of how to talk about the world and objects around you. You will gain an appreciation of different customs and celebrations relevant to the Francophones (French speaking parts of the world) around the world!

FRENCH II: Learn how to tell your story! French 2 is a continuation of the learning from French 1. Now that you've learned how to identify many of the things in the world around you, you will learn how to tell your own story using your past experiences. We will be covering a brief French history in this course.

HONORS FRENCH III: Predict the future! Learn how to express future goals and aspirations. This course will be a progression from French 2 and here we will learn how to take what you've learned in the previous 2 courses and apply it! We will be studying a look at different French customs and social etiquette relevant to the time.

HONORS FRENCH IV: French 4 is a course that will prepare you for taking French AP. In this course you will learn how to read intermediate level texts in French and be able to answer questions on a multitude of topics.

AP FRENCH V: AP French is the highest level of French offered in our curriculum. This course will be taught totally in French. Students may take this course after following the progression of French 1, 2, 3, and 4! If you successfully pass the exam at the end of the course, you can receive college credit for world language!

LATIN I: In Latin I, students will learn about the language that was used by Romans in ancient times. Highlights include learning to translate any Latin word into English, how to decline a noun, and stories about Romulus and Remus getting saved by a she-wolf.

LATIN II: In Latin II, students learn that Latin can be a little more complicated in the world of grammar and that there is a lot of smoke and destruction happening in Pompeii and in Rome (did Nero really fiddle while Rome burned to the ground)?

HONORS LATIN III: Latin III is an honors class and things are really getting complex, what with subjunctive and gerunds happening all over! But you will learn some things about the Crusades, dating in the Middle Ages and how things are going in the British Isles (lots of Picts).

HONORS LATIN IV: Latin IV is an honors class and when combined with AP Latin, will prepare students to take the AP Latin test. You can just take Honors Latin IV if you want and you will learn about how Aeneas fled Troy and then came to Italy or what Julius Caesar has to say about his wars with barbarians in France. If you are interested in taking the AP curriculum and perhaps getting college credit, you must take Honors IV in the fall and AP Latin in the spring.

AP LATIN V: AP Latin is the last Latin class for any student at Powell. It must be combined with Honors Latin IV and is NOT a stand-alone class. Between AP Latin and Latin IV, students will be prepared for the AP Latin exam which is based on Latin literature by Vergil and Julius Caesar.

SPANISH I: Spanish 1 will provide the student with a general introduction to the Spanish language: useful vocabulary related to everyday life, cultural information, and basic grammar. Students will be assessed in these four skills: listening, speaking, reading and limited writing.

SPANISH II: Spanish 2 builds upon knowledge gained in Spanish 1.This course will also reinforce the skills learned in Spanish I: listening, speaking, reading, and writing. Emphasis will be on increased vocabulary and grammar proficiency.

HERITAGE SPANISH II: Heritage Spanish II is a Language Arts course taught in Spanish for students who already speak and understand Spanish. This course focuses on reading and writing skills in Spanish as well as cultural identity of Hispanic & Latinx communities. In order to take this course, students will need to take a Spanish Proficiency Exam.

HONORS SPANISH III: The Level 3 Honors program is highly recommended for students who intend to apply for the Seal of Biliteracy and/or enroll in advanced academic world language courses. In addition to Level 3 requirements, the proficiency performance goal for Level 3 Honors students is the Intermediate High. prerequisite: teacher recommendation

HONORS SPANISH IV: Level 4 Honors is highly recommended for students who intend to apply for the Seal of Biliteracy and/or enroll in advanced academic world language courses. The proficiency performance goal for students enrolled in a Level 4 Honors class is Advanced Low with a focus on cultural knowledge. Prerequisite: Teacher Recommendation

AP SPANISH V: La clase de español para hispanohablantes es un curso diseñado para los estudiantes que ya hablan y entienden el español. Este curso se enseña completamente en español con un enfoque en desarollar las habilidades escritas y lecturas y también para estudiar la identidad cultural de los hispanos y los latinos. Los estudiantes que quieren tomar este curso tienen que tomar un examen de español para que puedan demonstrar sus habilidades españoles.

HUMANITIES

ADVANCED CREATIVE WRITING: In Advanced Creative Writing, students will create original, individual and group projects in various forms to showcase their writing skills. Students will be encouraged to seek opportunities to share their work in print and online platforms. Students are encouraged to take the Creative Writing elective as a prerequisite.

AP EUROPEAN HISTORY: Would you like to attend Napoleon's funeral? Would you enjoy attending a dinner party with the leaders of the Reformation? Discuss political theory with Enlightened philosophers? Learn how to avoid the guillotine in the French Revolution? Sing about the Thirty Years' War? Becoming an expert on the World Wars? We do all of this and more in AP Euro. Join us as we make history come alive!

AP RESEARCH: In this course, students work with professional mentors from the community to design and implement a research study and report their results. AP Seminar is a prerequisite for taking this course.

AP SEMINAR: This class teaches students teamwork, research, and presentation skills that will be immediately valuable in college. Students create research questions and work on teams to research topics of interest to them, present the research that they have compiled, and write a research paper, before completing the process individually as well.

AMERICANS AT WAR: In this class we will take a look at the wars the United States of America has been a part of. We will study the reasons why the wars happened, and the results of each. We will begin with the French and Indian War and end with the War on Terrorism.

BIBLE HISTORY: This class is a look at the history of the Hebrew people. We will study the places, the people, and the events of both the Old Testament and the New Testament. We will also learn about the course of events, and the people who made the Bible we have today.

CONTEMPORARY ISSUES: Contemporary American Issues is an elective course that is designed to develop students' understanding of important issues and challenges faced by our nation and the world. In this course, students will develop a habit of staying informed about current issues and events as well as learn skills to understand and explain information from different sources and points of view.

CREATIVE WRITING: Creative Writing is designed to give students the opportunity to think and write creatively. Students will read and analyze many different types of writing and will create original, individual projects to represent specific genres, such as short story, poetry, graphic novel, children's book, and screenplay.

DUAL ENROLLMENT PSYCHOLOGY: Dual Enrollment is a way for high school juniors and seniors to earn college and high school credit for the same Psychology course, simultaneously. It lets you get a head start on college and can even help you save money in the process.

DUAL ENROLLMENT SOCIOLOGY: Dual Enrollment is a way for high school juniors and seniors to earn college and high school credit for the same Sociology course, simultaneously. It lets you get a head start on college and can even help you save money in the process.

FILM STUDIES: Film Studies is an elective course that looks at the history of modern cinema, techniques of film production, and the influence film has had on the American culture in the 19th and 20th centuries. In this course, students will develop skills on how to examine and explore the ways in which films continue to evolve as both an art and as a source of entertainment.

GENRE LITERATURE: Genre Studies: Modern Literature is a course used to introduce students to more contemporary literature with the intent of showing how reading, when the right book is found, can be enjoyable. Novels are chosen based on the class culture, but emphasis is placed on selecting texts that are current, relevant, and relatable.

GLOBAL RELIGIOUS STUDIES: This course explores the origins, practices, and importance of the major world religions. We will explore Judaism, Christianity, Islam, Hinduism, and Buddhism as we seek to discover why people believe what they believe and what that means for the world today.

JOURNALISM--NEWSPAPER: Students working together to provide news on every level to the PHS campus and beyond. We are always looking for writers, reporters, editors, artists, photographers, film team members, and webmasters.

JOURNALISM--YEARBOOK: In Journalism--Yearbook, students take pictures, interview teachers and classmates, design layouts, improve technology skills, and learn many real-world skills that will help them succeed in college. They work as a team and have a lot of fun while making a book that records the history of the school.

MYTHOLOGY: Mythology is a humanities class at Powell and students will learn everything there is to know about Greek Mythology starting from the Creation of Gaea (the Earth) to how Achilles was killed by an arrow to his heel. Lots of myths about your favorite gods and heroes too, including tons of stuff on Zeus, Hercules, and even the Amazons.

PSYCHOLOGY: Psychology is the scientific study of the mind and human and animal behavior. Psychology studies the things that people think, feel, and do. The emphasis within the world of psychology is to predict future behaviors and influence those behaviors in a positive manner.

SCIENCE FICTION: In this course, students will analyze science fiction through mediums of literature and film. Through exposure to various subgenres and authors, they will study the literary characteristics specific to the genre.

SOCIOLOGY: Sociology is the scientific study of the various and unique structures that make up a society. This includes topics such as, religion, crime, racism, the economy and social expectations. Sociology examines culture, group behaviors, social interactions, important social institutions, and social pressures placed on society's members to conform to social norms.

SPEECH: Students will explore a variety of speaking situations (informative, small group, persuasive, and special event speaking) and different types of communication (interpersonal, small group, and public communication) using a variety of digital media (text, audio, and visual) through formal and informal settings. The student will develop the skills to generate ideas, research topics, organize information, and create and evaluate oral presentations.

FINE ARTS

ADVANCED ART DRAWING: In Advanced Art-Drawing students will create art experimenting with many different mark making tools.

ADVANCED ART PAINTING: In Advanced Art-Painting students will use different paints ranging from acrylic to watercolor and tempera. We will experiment and create fabulous and creative art.

ADVANCED ART PRINTMAKING: In Advanced Art-Printmaking we will transfer your drawings from paper to.... paper ,fabric, wood and any other surface that we may have available to us that you may want to experiment with.

ADVANCED ART SCULPTURE: Sculpting is hands on learning and experimenting with clay, plaster, wood, cardboard, wire and many other materials. We set things on fire and marvel at the chemical change glazes have when taken to 2400 degrees....Sculpting is a studio class. Which means you may get your hands dirty.

ADVANCED THEATRE ARTS I: In advanced theatre, students will contribute to a production. Students can contribute as crew and do painting, building, costuming, etc. or as actors.

AP MUSIC THEORY: A rigorous course that digs deep into why music sounds the way it does. This class studies Music Theory and History, and is meant for students who have been in Band or Choir previously.

AP STUDIO ART: The AP Studio Art portfolios are designed for students who are seriously interested in the practical experience of art. AP Studio Art is not based on a written examination; instead, students submit portfolios for evaluation at the end of the school year.

COLOR GUARD: Color Guard is a Fall semester course in which students learn the technical skills involved in expressive dance, flag, rifle, and saber choreography. Football games, competitions and travel are also a part of the course and required.

DEVELOPMENT OF ROCK & ROLL: Development of Rock is a history course that explores the development of rock and roll music of each decade beginning with Elvis Presley in the 1950's through alternative rock of the 1990's.

INTRODUCTION TO BAND: A class where students of any grade level can come to learn how to play any instrument that is used in a band setting. This includes Woodwinds, Brass, Percussion, Piano, Guitar, etc.

GENERAL MUSIC: A class that studies a very broad overview of music history and how it is impacted by culture. By nature, it is more of a cultural and historical study of music.

MARCHING BAND: Marching Band is a Fall semester course in which students learn marching fundamentals, music and choreography for the football game performances. Football games, competitions, and travel are required.

MUSICAL THEATRE: Musical Theatre offers students the opportunity to study and perform in this genre. This is a production-based course designed to provide students with opportunities to participate in the varied aspects of a musical theatre production. The course combines practical vocal training including diction and tone quality as well as the development of students as actors by instilling work ethic, time management, and the importance of teamwork. Performances and after-school rehearsals are required. Choreography and/or costumes may be required determined by the production. There is no prerequisite for this class. This class may be repeated.

SYMPHONIC BAND: Symphonic Band is a Spring semester course in which students learn and perform various types of band music indoors for concerts and festivals.

THEATRE ARTS I: Students will learn many aspects of performing on stage such as stage movement and speaking on stage. Students will perform many scenes in class throughout the semester.

VISUAL ART I: Provides a variety of experiences that build on the concepts, techniques, and use of media introduced in the middle school program. Generally laboratory in nature, Art I

explores and gives experience in two-dimensional (drawing, painting, printmaking) and three-dimensional (sculpture, ceramics, textiles) formats and integrates art history, design principles, and aesthetic criticism and response.

VOCAL MUSIC I (MALE & FEMALE CHORUS): This course is for beginning choral students who wish to study and perform a wide variety of sacred and secular choral literature of easy to medium difficulty in a variety of styles. Emphasis is placed on vocal production and basic choral techniques, intonation, phrasing, sight-reading and ear training, general musicianship skills, understanding and attitudes, and the responsibility of individuals to the group. After-school performances are required. There is no prerequisite for this class. This class may be repeated.

VOCAL MUSIC II: Fall Term (Concert Choir) is for students who wish to study and perform a wide variety of medium to difficult sacred and secular choral literature in a variety of styles and historical periods. Emphasis will be placed on an advanced degree of musicianship and increased performance skills individually and in ensemble. The mixed chorus is for students who elect and are selected by audition to be in the group. Performances and after-school rehearsals are required. There is no prerequisite for this class, but previous choral experience would be beneficial. This class may be repeated.

VOCAL MUSIC III: Vocal Music III – PHS Singers choral ensemble that consists of students with advanced choral skills and is selected by audition. This ensemble performs a variety of musical styles and genres throughout the year with multiple community performances and generally includes an annual trip to one of a variety of locations. Emphasis is placed on an advanced degree of musicianship, increased harmonic and rhythmic reading skills, and increased performance skills. Enrollment is by audition only. This class may be repeated. Performances and after-school rehearsals are required. Outfits are required and provided for this ensemble.

PE

ADVANCED PE: Advanced PE is a course where you learn to lift weights, work on cardiovascular endurance and play team sports like kickball, basketball, baseball, touch football.

ADVANCED STRENGTH & CONDITIONING: This course is designed for the student who wants to lift weights, run/walk for cardio and play team sports such as baseball, basketball, football, soccer, kickball.

DRIVER'S EDUCATION: This course is to learn to drive a car, basic road sign identification, and road laws.

LIFETIME WELLNESS: Lifetime wellness is a course where we learn about our bodies, STDs, health and wellness habits, drugs, positive impacts of fitness,and nutrition. This is the only required PE class for graduation.

PE I: We learn to exercise in PE 1. We play team sports and some individual sports. We learn how to stretch and learn the benefits of exercise on life.

CTE (POWELL HIGH SCHOOL)

ACCOUNTING I: It teaches you how to determine if you are making money for a business, what your expenses are, and then what assets you have (own) and the liabilities (owe) you have.

ADVANCED COMPUTER APPS: It takes the skills learned in Computer Applications using Microsoft Office (Word, Excel, and PowerPoint) to the next level.

ADVERTISING & PUBLIC RELATIONS: Focus on the creative and psychological aspects of advertising and public relations. The students will create an advertising portfolio.

AVIATION I: This course builds on the fundamental knowledge and skills learned in Introduction to Aerospace while teaching students the essential competencies needed for flight under normal conditions. Upon completion of this course, proficient students will be able to apply knowledge, skills, and procedures in a variety of simulated flight environments.

AVIATION II: This course is intended to prepare students for careers in aviation. While continuing to build upon the knowledge, skills, and competencies acquired in Introduction to Aerospace and Aviation I, students will receive rigorous instruction in preparation to take the Federal Aviation Administration (FAA) Private Pilot written exam.

BUSINESS COMMUNICATIONS: It teaches the importance of effective communication in business. Many types of communication included (verbal, nonverbal, written, social media, publishing design, and video conferencing).

BUSINESS MANAGEMENT: You may not know how a business works - Business Management will teach you. The highlight of this class is that you develop and build a business throughout the semester.

CLINICALS: This is a senior level course designed to prepare students for the medical workforce. You will go out to various medical facilities to job shadow medical professionals. You will be required to have your own transportation and have a Physical which includes TB Skin test and flu vaccine. (This course is paired with Nursing Education).

CODING I: A course intended to teach students the basics of computer programming. The course places emphasis on practicing standard programming techniques and learning the logic tools and methods typically used by programmers to create simple computer applications. Upon completion of this course, proficient students will be able to solve problems by planning multi step procedures; write, analyze, review, and revise programs, converting detailed information from workflow charts and diagrams into coded instructions in a computer language; and will be able to troubleshoot/debug programs and software applications to correct malfunctions and ensure their proper execution.

CODING II: This course challenges students to develop advanced skills in problem analysis, construction of algorithms, and computer implementation of algorithms as they work on

programming projects of increased complexity. Students develop key skills of discernment and judgment as they must choose from among many languages, development environments, and strategies for the program life cycle.

COMPUTER APPS: Students will learn software applications using Microsoft Office: documents (Word), spreadsheets (Excel), databases (Access), and presentations (PowerPoint).

COMPUTER SCIENCE FOUNDATIONS: A course intended to provide students with exposure to various information technology occupations and pathways such as Networking Systems, Coding, Web Design, and Cybersecurity. Upon completion of this course, proficient students will be able to describe various information technology (IT) occupations and professional organizations.

DIAGNOSTIC MEDICINE: This course should be taken after Health Science. It is designed for students interested in careers in laboratory science, cardiac medicine or radiography. You will learn how to take blood, read an ECG, take vital signs, earn AHA CPR certification and read an x-ray.

DIGITAL ARTS & DESIGN I: This is a foundational course in the Arts, A/V Technology, & Communications cluster for students interested in art and design professions. Students will acquire basic skills in illustration, typography, and photography. Standards in this course include career exploration, an overview of the history of design, basic business management, and legal issues.

DIGITAL ARTS & DESIGN II: This is a course that builds on the basic principles and design process learned in the introductory Digital Arts & Design I course. Upon completion of this course, proficient students will be able to perform advanced software operations to create photographs and illustrations of increasing complexity. Students will employ design principles and use industry software to create layouts for a variety of applications.

EMERGENCY MEDICAL SERVICE: This is a senior level course designed to train students in the area of emergency medicine. Students will receive dual enrollment credit through Roane State Community College and receive hours to obtain First Responder certification. Skills include patient assessment, treatment of traumatic injuries, spine stabilization, CPR and administration of oxygen therapy.

ENTREPRENEURSHIP: Want to own your own business one day? Learn how to create a business plan and gain real life work experience working in Panther Station (school store).

EVENT PLANNING: The students create an Integrated Marketing Plan for an event to be held at a sports or entertainment event.

EXERCISE SCIENCE: Exercise Science is a senior level course designed to explore skills required to treat athletes. You will gain a personal trainer certification in this course.

FAMILY STUDIES: This course looks at the changing modern family. This third level course offers an opportunity for college credit.

FOUNDATIONS OF SUPPLY CHAIN MANAGEMENT: Students will study careers/businesses involved in planning, managing people/materials/products delivered by road, air, rail, pipeline, and water.

HEALTH SCIENCE EDUCATION: This is an entry level medical course that is required to move forward in any of the Medical pathways. You will learn basic medical terminology, first aid skills, infection control, and other healthcare skills.

HUMAN RESOURCES MANAGEMENT: You might be wondering how the topic is important to your interests and career dreams. Suppose you want the opportunity to manage people, either for another company or one you start yourself, having a good understanding of human resources is important.

INTRODUCTION TO AEROSPACE: This course is for students interested in pursuing careers in aviation. This course covers the basic principles governing flight and the regulation of flight that every aviation professional must know regardless of his or her occupation--as a pilot or an engineer, a salesperson or a specialist, a mechanic or a statistician.

INTRODUCTION TO BUSINESS & MARKETING: Thinking about a career in business? This course gives you a peek into all different types of business. Learn about marketing, finance, leadership, communication, ethics, and careers.

INTRODUCTION TO HUMAN STUDIES: Focus is on careers, nutrition, and mental and social health. Lots of hands on learning and cooking.

LIFESPAN DEVELOPMENT: The "Baby" Class. This second level course explores how a person changes from cradle to grave.

MARKETING I: The students create a marketing and advertising plan for a new business. We also explore the steps needed to get a job.

MARKETING II: The students learn and practice skills necessary to manage and motivate employees. We will also create a promotion and retail plan for a theme park. Completion of Marketing 2 will give you the opportunity to earn college credit by taking the CLEP exam at the end of the course.

MEDICAL THERAPEUTICS: This course should be taken after Health Science. It is designed for students interested in careers in various areas of medicine, including nursing, physician and respiratory. You will assess patients for abnormalities, take blood, give injections, read an ECG, take vital signs, earn AHA CPR certification and provide medical treatments. (This course is required prior to taking senior level courses).

MOBILE APP DEVELOPMENT: A course intended to teach students the basic concepts and skills of mobile app design. The course places an emphasis on the history of mobile technologies, design and development methodologies, code for mobile applications, application life cycles, APIs, mobile device controls, user interfaces, deployment, publishing for mobile devices, developer tools, and career development.

NURSING EDUCATION: This is a senior level course designed to train students to become certified nursing assistants. You will provide direct patient care to patients in a Long Term Care Facility and will be ready to enter the medical workforce after completing this course. (This course is paired with Clinical Internship).

NUTRITION ACROSS THE LIFESPAN: Focus is on nutrition at various stages in one's life. Lab based class building on the nutrition and cooking skills from the Intro Human Studies class.

NUTRITION SCIENCE: Focus is on the science behind nutrition affecting our lives.This a lab based class looking at the science in nutrition and cooking.

REHAB CAREERS: This course is for students that have taken health science and are interested in a career in physical therapy. You will learn skills and knowledge required for physical therapists such as: injury specific exercises, treatment of injuries, common surgical procedures, and detailed anatomy.

RETAIL OPERATIONS: Ever wondered how a retail store operates? Learn about supply chain and merchandising plus gain real life work experience from working in Panther Station(school store).

SOCIAL MEDIA & ANALYTICS: Analyze data and statistics related to social media. Concentration on marketing strategies, communication, and ethical responsibility related to social media.

SUPPLY CHAIN MANAGEMENT I: Students will study distribution, tracking and managing of inventory, in today's business environments.

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ADVANCED ELECTROMECHANICAL: This course is designed to provide students with the knowledge and skills to effectively perform basic 127 industrial maintenance procedures in an advanced manufacturing facility. Students in this course develop proficiency in a vast array of electromechanical domains, including: fundamental safety practices in electromechanical technology, shielded metal arc welding (SMAW), basic metal inert gas (MIG) welding, electrical systems, AC and DC motors, calibrating instruments, drive systems, pipe fabrication, hydraulic systems, pumps, digital electronics, programmable logic controllers (PLC), and troubleshooting procedures.

AGRISCIENCE: This course helps students understand the important role that agricultural science and technology plays in the twenty-first century. In addition, it serves as the first course

for all programs of study in the Agriculture, Food, & Natural Resources cluster. Upon completion of this course, proficient students will be prepared for success in more advanced agriculture and science coursework.

APPLIED ENVIRONMENTAL: This course focuses on the knowledge, information, and skills related to the fundamental science and management of ecosystems as well as careers, leadership, and history of the industry. This course covers principles of environmental impacts, energy consumption, and ecosystem management.

A/V PRODUCTION I: This is a foundational course in the Arts, A/V Technology, & Communications cluster for students interested in A/V (audio/visual) production occupations. Upon completion of this course, proficient students will be able to explain and complete the phases of the production process including pre-production, production, and postproduction. Students will establish basic skills in operating cameras, basic audio equipment, and other production equipment.

A/V PRODUCTION II: The second course in the A/V Production program of study intended to prepare students for a career in audio/visual production. Building on knowledge acquired in A/V Production I, this course advances technical skill in utilizing industry equipment related to lighting and audio, and it places special emphasis on the research and technical writing involved in planning productions.

A/V PRODUCTION III: An applied-knowledge course intended to prepare students to pursue careers and postsecondary learning in audio/visual production. Students in this course will apply knowledge and skills from previous courses in the program of study to create productions both independently and in teams, with the option of participating in a work-based learning experience for additional credit. Students will use industry equipment and technology to complete all phases of the production process, including planning, coordinating, capturing, editing, and distributing productions.

CONSTRUCTION PRACTICUM: This is a capstone course intended to provide students with the opportunity to apply the skills and knowledge learned in previous Architecture & Construction courses within a professional, working environment. In addition to developing an understanding of the professional and ethical issues encountered by tradesmen and contractors in the workplace, students learn to refine their skills in problem solving, communication, teamwork, and project management in the completion of a course- long project.

COSMETOLOGY I: The first level of cosmetology, it prepares students with work- related skills for advancement into the Design Principles of Cosmetology course. Content provides students the opportunity to acquire basic fundamental skills in both theory and practical applications of leadership and interpersonal skill development. Content stresses safety, environmental issues, and protection of the public and designers as integrated with principles of hair design, nail structure, and cosmetic procedures.

COSMETOLOGY II: The second level of cosmetology which prepares students for work-related skills and advancement into the Chemistry of Cosmetology course. Content

provides students the opportunity to acquire knowledge and skills in both theory and practical application. Advanced knowledge and skills in hair design, nail artistry, and cosmetic applications will be enhanced in a laboratory setting, which duplicates cosmetology industry standards. Upon completion and acquisition of 300 hours, students are eligible to take the Tennessee Board of Cosmetology Shampoo examination for a Tennessee Shampoo Technician License.

COSMETOLOGY III: An advanced level of cosmetology, it prepares students to perform work-related services using chemicals in the cosmetology industry. Content provides students the opportunity to acquire foundation skills in both theory and practical applications. Laboratory facilities and experiences will be used to simulate cosmetology 155 work experiences. Students completing this portion of the course of cosmetology will acquire the necessary hours to transfer to a post-secondary course of study to complete the hours needed to be eligible to take the Tennessee State Board of Cosmetology examination for the Tennessee Cosmetology License. Upon completion and acquisition of 300 hours, students are eligible to take the Tennessee State Board of Cosmetology Shampooing examination for a Shampoo Technician License.

DIESEL: A Dual Enrollment class through TCAT that provides students with the technical instruction and skill development to enable them to continue their hours at TCAT after graduation in order to enter employment in truck, construction, agricultural equipment, and other related fields as technicians.

EARLY CHILDHOOD EDUCATION I: A foundational course in the Education and Training career cluster intended to prepare students for careers as childcare providers, nannies, preschool teachers, and more. Course content covers the foundation of childhood development services, careers, provider responsibilities and aptitudes, and fundamentals of child development.

EARLY CHILDHOOD EDUCATION II: An intermediate course for students interested in learning more about becoming an early childhood teacher, nanny, or childcare provider. This course covers the components of curriculum planning, learning, screening and assessing, special populations, and educational technology. Students will observe educators in action, practice specific skills, and add personal work products to a course portfolio.

EARLY CHILDHOOD EDUCATION III: An applied-knowledge course for students interested in becoming an early childhood teacher, nanny, or childcare provider. This course covers the components of the learning environment, planning age appropriate activities, using activities for learning, and developing communication skills.

ELECTRICAL SYSTEMS: This course prepares students for careers as electricians across a variety of residential and commercial environments. Upon completion of this course, proficient students will be able to implement safety procedures and tools to perform operations with device boxes, conduit, raceway systems conductors, and cable. Students will read and interpret the National Electrical Code, drawings, specifications, and diagrams to determine materials and procedures needed to complete a project. Students will calculate residential loads to recommend 134 electrical hardware.

FIRE SCIENCE I: In this course, students will be prepared with technical knowledge and skills related to firefighter safety, fire behavior, building construction guidelines, and the use of firefighting equipment. Upon completion of this course, proficient students will be able to correctly demonstrate skills associated with ropes, ladders, and fire hoses in a non-live fire situation. Standards in this course are aligned with the NFPA Standards.

FIRE SCIENCE II: The fourth and final course in the Fire Management Services program of study. Students in this course continue to acquire the skills and knowledge needed to pursue a career as a Firefighter I. Those students who complete this course will be prepared, after graduation, to further their instruction at a training facility. Upon completion of this course, proficient students will be able to correctly demonstrate skills associated with ventilation, water supply, fire hose and fire streams in a non-live fire situation, and safety with hazardous materials.

FUNDAMENTALS OF CONSTRUCTION: This course is a foundational course in the Architecture & Construction cluster covering essential knowledge, skills, and concepts required for careers in construction. Upon completion of this course, proficient students will be able to describe various construction fields and outline the steps necessary to advance in specific construction careers. Students will be able to employ tools safely and interpret construction drawings to complete projects demonstrating proper measurement and application of mathematical concepts.

HVAC SYSTEMS: This course prepares students for careers in residential and commercial heating, ventilation, air conditioning, and refrigeration. Upon completion of this course, proficient students will be able to demonstrate knowledge and skill in performing basic operations with HVAC systems, with emphasis on safety, tools, and equipment specific to HVAC. In addition, students will be able to explain the functions and components of heating, cooling, and air distribution systems.

INTRODUCTION TO ELECTROMECHANICAL: A foundational course that introduces students to basic electro-mechanical skills necessary in a manufacturing facility. Topics covered include safety, construction drawings, site layout, hand and power tools, linear and angular measurements, and application of algebraic and geometric principles to construction problems.

MANUFACTURING PRACTICUM: Manufacturing Practicum is a capstone course intended to provide students with the opportunity to apply the skills and knowledge learned in previous Advanced Manufacturing courses within a professional, working environment. While continuing to add to their technical skill sets, students in this course assume increasing responsibility for overseeing manufacturing processes and managing complex projects.

NATURAL RESOURCE MANAGEMENT: This is an applied course for students interested in learning more about becoming good stewards of our environment and natural resources. This course covers major types of natural resources and their management, public policy, and the role of public education in managing resources, as well as careers, leadership, and history of the industry. Upon completion of this course, proficient students will be prepared for further study and careers as an environmental scientist, conservationist, forester, or wildlife manager.

PLANT & SOIL SCIENCES: This is an applied-knowledge course focusing on the science and management of plants and soils, with special attention given to current agricultural practices that support the healthy and sustainable cultivation of major crops. Upon completion of this course, proficient students will have been exposed to a range of careers associated with the science and management of plants and soils and will have developed the essential skills and knowledge to be successful in science- or agriculture-related occupations.

PLUMBING SYSTEMS: This course prepares students for careers in plumbing across a variety of residential and commercial settings. Upon completion of this course, proficient students will be able to implement safety procedures and tools to perform operations with plumbing systems. Students will be able to explain how drain, waste, and vent (DWV) systems, water distribution systems, and plumbing fixtures work and apply proper tools and procedures to perform operations with plumbing piping, including measuring, cutting, joining, supporting, and hanging various types of pipe. Students will read and interpret drawings, specifications, and diagrams to determine materials needed to complete a plumbing project.

PRINCIPLES OF FIRE SCIENCE: The introductory course in the Fire Management Services program of study. Students will be introduced to the challenging work of emergency responders in fire management services by learning regulations, health and safety protocol, communications, and operations.

PRINCIPLES OF MANUFACTURING: Designed to provide students with exposure to various occupations and pathways in the Advanced Manufacturing career cluster, such as Machining Technology, Electromechanical Technology, Mechatronics, and Welding. Throughout the course, they will develop an understanding of the general steps involved in the manufacturing process and master the essential skills to be an effective team member in a manufacturing production setting.

STRUCTURAL SYSTEMS I: This course prepares students for careers in residential and commercial carpentry. Upon completion of this course, proficient students will be able to demonstrate knowledge and skill in framing buildings. Students will be able to frame floors, walls, ceilings, roofs, and stairs while safely employing tools and interpreting construction drawings to complete projects. Emphasis is placed on demonstrating proper measurement and application of mathematical concepts.

WELDING I: This course is designed to provide students with the skills and knowledge to effectively perform cutting and welding applications used in the advanced manufacturing industry. Proficient students will develop proficiency in fundamental safety practices in welding, interpreting drawings, creating computer aided drawings, identifying and using joint designs, efficiently laying out parts for fabrication, basic shielded metal arc welding (SMAW), mechanical and thermal properties of metals, and quality control. Upon completion of this course, proficient students will understand the requirements to pursue the American Welding Society (AWS) Entry Welder qualification and examination and will be prepared to undertake more advanced welding coursework.

WELDING II: This course is designed to provide students with opportunities to effectively perform cutting and welding applications of increasing complexity used in the advanced manufacturing industry. Proficient students will build on the knowledge and skills of the Welding I course and apply them in novel environments, while learning additional welding techniques not covered in previous courses. Specifically, students will be proficient in (1) fundamental safety practices in welding, (2) gas metal arc welding (GMAW), (3) flux cored arc welding (FCAW), (4) gas tungsten arc welding (GTAW), and (5) quality control methods. Upon completion of the Welding II course, proficient students will be eligible to complete the American Welding Society (AWS) Entry Welder qualification and certification. Standards in this course are aligned with Tennessee State Standards for English Language Arts & Literacy in Technical Subjects and Tennessee State Standards in Mathematics.

ACADEMIC SUCCESS

ADVANCED ACT PREP: Advanced ACT Test Prep is a Semester long course designed to help students prepare for and improve their ACT college entrance exam score, while also providing them with an understanding of how colleges use the scores. Students will become more confident of their ability to work with various concepts, test-taking strategies, as well as, a thorough review of ACT English, Math, Reading, and Science skills. Students will be given data from the four subject-area practice tests in order to complete extended practice and activities tailored to their needs. Students will also explore college and career options and opportunities through a series of on-line activities, in addition to college and technical school guest speakers.

ADVANCED PEER TUTORING: Peer Tutoring provides a chance for students with and without disabilities to work together in an inclusive educational setting. Peer Tutoring increases access for students with disabilities to both the general curriculum and all of the typical high school student activities. Peer Tutoring encourages positive social interactions and social relationships to develop between students with and without disabilities.

LEADERSHIP: If you enjoy hands- on projects, team work, and changing the environment of the school, Leadership is the class for you!! It teaches you valuable lessons, how to encourage others while building friendships. It allows students to be involved in their school and make a positive difference.

SKILLS FOR POST-SECONDARY READINESS: Skills for Post-Secondary Readiness is a class where students focus on online courses to recover credits from previously failed classes or to work on new credits toward graduation. It is a student self-paced environment where they have the potential to earn multiple course credits in a semester. This class enables students to get back on track toward graduation credit-wise as well as allowing students the opportunity to graduate early.

SPECIAL EDUCATION

ALTERNATE ACADEMIC DIPLOMA PATH: Alternate Academic Diploma Path is designed for students who are assessed on the state alternate assessments. The diploma requirements align to the academic coursework requirements of students earning a regular

diploma to ensure that all students are provided access and opportunities to learn and participate in rigorous, meaningful instruction.

LIFE SKILLS: The Life Skills course is designed to increase student knowledge and skills necessary for everyday living. The course emphasizes goal-setting, decision-making and problem-solving, communication, healthy lifestyles and relationships, nutrition, personal safety, citizenship, and post-secondary readiness.

PRE-VOCATIONAL SKILLS: The Pre-Vocational course provides students with opportunities to work on the preparatory skills needed to enter a vocational training program or employment.

WORK BASED LEARNING: Work-Based Learning is a course that provides students with the opportunity to learn a variety of skills by expanding the classroom into the community. With Work-Based Learning, students are afforded the opportunity to connect classroom instruction to the world of work and future career opportunities.

ROTC

ROTC: The U.S. Army Junior Reserve Officer Training Corps (JROTC) is a program offered to high schools that teaches students character education, student achievement, wellness, leadership, personal finance, and diversity. It is a cooperative effort between the U.S. Army and the high schools to produce successful students and citizens, while fostering in each school a more constructive and disciplined learning environment.

QUEST

WEB DESIGN FOUNDATIONS: A course that prepares students with work-related web design skills for advancement into postsecondary education and industry. The course is intended to develop fundamental skills in both theory and practical application of the basic web design and development process, project management and teamwork, troubleshooting and problem solving, and interpersonal skill development.