Course Overviews:

MATHEMATICS COURSES

Pre-Algebra (1.0)

The Pre-Algebra course was developed to ensure that students have a strong foundation in basic mathematical concepts prior to introducing them to more advanced topics. We have found that students often have difficulty in Algebra I, when they have a weak foundation in mathematics. Pre-Algebra helps to fill in the holes in student understanding, providing them with a strong foundation of basic mathematical concepts upon which they can build. It is recommended that students take Pre-Algebra at either grade 7 or 8, OR prior to going into Algebra I.

Algebra I (1.0)
Algebra II (1.0)

Algebra I consists of a journey through fundamental mathematical and algebraic concepts, divided into twelve units. First, students delve into the language of algebra, mastering expressions, powers, order of operations, and various properties of numbers. It then progresses into equations, proportions, and percentages, equipping learners with problem-solving skills across one-step to multi-step equations and applications involving proportions and percentages. Afterwards we extend the understanding of inequalities and absolute values, encompassing graphing, solving, and interpreting inequalities alongside sets and absolute value equations.
Eventually, we introduce the concept of functions, exploring their graphical representations, notation, and the relationship between independent and dependent variables. Linear functions take center stage midway through the course, where students analyze rates of change, slope, direct variation, and various forms of linear equations, along with their transformations and applications in real-world scenarios.
Afterwards, the focus transitions to systems of equations and inequalities, providing multiple methods for solving systems and applying them in practical contexts. The curriculum then advances into exponential properties and functions, followed by an in-depth exploration of polynomials, factoring techniques, and quadratics.
Near the end of the course students are introduced to radicals, the Pythagorean theorem, and operations involving radicals and square root functions, as well as rational functions; covering simplification, operations, graphing, and applications. Finally, students delve into statistical analysis, where they learn about matrices, measures of central tendency, probability, and combinatorics, rounding off the curriculum with a versatile toolkit for mathematical problem-solving and analysis skills. **This course is recommended for high school and advanced middle school students who have successfully completed a Pre-Algebra course.**

Algebra II builds upon the algebraic concepts taught in Algebra I, continuing on to functions, expressions, etc. and providing students with a more in-depth understanding of algebraic concepts.

Geometry (1.0)
Geometry provides students with a knowledge of geometric concepts and guides them through the process of developing important mathematical reasoning and proof skills. Students also gain a perspective of how geometry is an integral part of everyday life.

Trigonometry (0.5)

Trigonometry, students learn about the relationships between the sides and the angles of triangles and how to make calculations based on them using trigonometric functions.

College Exam Math Preparation (0.5)

College Exam Math Preparation course has been specially developed to help students prepare to take the math portion of the ACT or SAT college entrance exam. Students watch as problems similar to those presented in these exams are solved in the high-quality video lessons. After each lesson students are presented with several similar problems to enable them to practice the concepts that they have just reviewed.

Pre-Calculus (1.0)

Pre-Calculus, a full year course, is recommended for high school students seeking a high school diploma having a strong aptitude for math. It covers the foundational skills needed for success in Calculus. **Recommended for students planning to pursue a college career path, especially for those planning a career in STEM fields of study. Students should successfully complete Algebra II and Trigonometry before taking this course.** Students will review various functions – equations and graphs – and transformations thereof. They know that functions can be used to model real-world situations. They will be familiar with linear, quadratic, power, polynomial, rational, exponential, logistic, and logarithmic functions. Students attain a deeper understanding of complex numbers and what they mean. Trig skills have been reinforced as students use the trig functions to find unknown sides and angles of right triangles. Students have gained confidence working with graphs of trig functions and translating them. They are familiar with harmonic motion and know how to use it to solve real-world problems. Their proficiency using the basic trig identities is improved as they continue to solve problems using them. Students learn about vectors and dot products. They learn about polar coordinates and how to express complex numbers in this form. Students are familiar with several uses of matrices in solving real-world problems. Student skills using conic sections are reinforced. Students also have a basic fundamental understanding of the concept of the limit, tangent lines, and finding the area underneath a curve – all in preparation for continued studies in Calculus.

AP Calculus AB (1.0)
AP Calculus BC (1.0)

AP Calculus is a two-part advanced placement course providing students with the curriculum required by the College Board for AP Calculus AB and BC. Students completing this course will be able to take the AP Calculus exam, enabling them to earn college credit for taking this course while still in high school. Besides learning how to use the basic tools of Calculus, students completing this course learn on a deeper level what they are really doing and why it works. This provides insight few students experience in more conventional Calculus courses, empowering them with the knowledge required to solve real world problems. **This course has been audited and approved by the College Board.**

AP Statistics(1.0)

AP Statistics has been audited and approved by the College Board to provide students with a college-level learning experience. In this course, students learn about the major concepts and tools for collecting, analyzing, and drawing conclusions from data. **Students should successfully complete Algebra II prior to taking this course.**

Business Math(1.0)

Business Math course, students gain knowledge of the specific applications of mathematics in the business world. They begin with the mathematical aspects of personal business, and move into banking, real estate, vehicles, and insurance. They become familiar with manufacturing and employment costs, discounts, maintenance costs, professional services, marketing costs, and business accounting.

LANGUAGE ARTS COURSES

English I (1.0)

High School English I course provides a detailed investigation of literary techniques and devices using classics from American and English literature as examples. It explains how to recognize these techniques and to incorporate them into writing. It also presents strategies for expanding vocabulary through reading and provides focus on grammar skills for advanced writing.

English II (1.0)

The English II course is designed to deepen students' understanding and appreciation of literature while developing their language and communication skills. Throughout the course, students will engage with a variety of texts, including novels, short stories, speeches, poetry, and informational texts. They will explore key literary elements and techniques, such as theme, characterization, figurative language, and author's purpose, and learn how these elements contribute to the overall meaning and impact of the texts. The course also emphasizes the development of critical reading and writing skills, including active reading strategies, vocabulary analysis, grammar proficiency, essay writing, and research skills. By the end of the course, students will have honed their analytical and expressive abilities, enabling them to effectively engage with and interpret a wide range of literary and informational texts.

American Literature-English III(1.0)

This American Literature course offers a comprehensive exploration of the diverse literary landscape of the United States, spanning from the rhetorical foundations of early American documents to the modernist movements of the 20th century. Students will analyze rhetorical strategies, study narrative and poetic elements, delve into Gothic literature, and examine works that spurred social reform. The course also emphasizes developing analytical writing skills and grammatical composition. Finally, students will gain practical skills in research and professional writing.

British Literature – English IV(1.0)

British Literature is a robust high school English IV course for 11th and 12th grade students that examines British Literature as it has developed through the ages against an historical backdrop. It exposes students to classic works of fiction and nonfiction, including epics, legends, poetry, histories, novels, and drama from early Anglo-Saxon texts to post-modern pieces. In addition to the study of literature, the course includes four units focused on writing to give students practice in critical thinking which they translate into written analysis. A strong addition to the writing units is a detailed step-by-step guide through the process of writing a research report, reinforcing students' preparation for their future in college and/or a career.

College Prep — English IV (1.0)

As students transition from High School to College or into the work force, their ability to apply language arts skills in real-world scenarios becomes essential. In the College Prep-English IV course, students learn practical strategies for effective writing in college or on the job, including how to write scholarly essays, concise technical reports, compelling resumes, and professional business emails. Grammar, vocabulary, and spelling tips round out the course to empower college/employment-bound students for success in their post-high school endeavors.

AP Eng. Literature & Comp. (1.0)

AP English Literature and Composition is designed for students who have mastered the basic English curriculum and wish to be challenged by higher-level reading and analysis. It engages students in becoming skilled readers and writers of prose from a variety of rhetorical contexts. The course also includes AP Exam prep. AP English Literature and Composition has been audited and approved by College Board.

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AP English Literature and Composition is designed for students who have mastered the basic English curriculum and wish to be challenged by higher-level reading and analysis. It engages students in becoming skilled readers and writers of prose from a variety of rhetorical contexts. The course also includes AP Exam prep. AP English Literature and Composition has been audited and approved by College Board.

Physical Science (1.0)

Matter can be defined as anything that takes up space and has mass. Energy can be defined as the ability to cause change in matter. Physical Science is the study of matter and energy. Students in the Physical Science course study the basic components that matter is made of, as well as different forms of energy that make things move and change. Enlightening, on-screen demonstrations of the concepts being taught bring the science to life and enhance student understanding.

Intro to Physics & Chemistry (1.0)

In this comprehensive science course, students will cover a wide range of topics related to motion, forces, energy, waves, matter, chemical reactions, and nuclear processes. They will learn to interpret motion using graphical representations, calculate forces, mass, and acceleration, and apply engineering design principles. The course will also delve into energy types, calculations, and transformations, exploring heat transfer and real-world applications. Students will study electricity, magnetism, chemical bonding, compounds, and chemical reactions, as well as explore elements and their properties on the periodic table. Additionally, they will investigate reaction rates, nuclear decays, and renewable and non-renewable energy sources with a focus on real-world implications and practical applications. Throughout the units, students will engage in critical thinking, problem-solving, and experimental design to build a comprehensive understanding of physical and chemical processes in the world around them.

Biology (1.0)

Biology, a full year high school-level course, provides students with an introduction to the study of life. Students explore DNA, cells, organisms, and ecosystems. This course covers the requirements for life all over the globe and the interactions between living and non-living matter.

AP Biology (1.0)

AP Biology is an advanced high school, and introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations by exploring biological topics. **It is recommended that students complete Biology and Chemistry prior to taking AP Biology. AP Biology has been audited and approved by the College Board.**

General Chemistry (1.0)

General Chemistry provides students with an introduction to the fundamentals of chemistry. Students build data analysis, critical thinking, and science communication skills while exploring various forms of matter, the composition of the atom, and organization of the periodic table. They will learn about properties of matter and use patterns to predict the behavior of atoms undergoing chemical reactions. They will understand chemical bonding and other interactions between atoms and molecules. They will explore the laws of conservation of mass and energy through calculations, including stoichiometry and calorimetry. **Students should take this course concurrently with, or after taking, Algebra II.**

AP Chemistry (1.0)

AP Chemistry has been audited and approved by the College Board to provide students with a college-level learning experience. Structure and states of matter, intermolecular forces, and reactions are some of the topics covered. **Students should successfully complete Chemistry prior to taking this course.** AP Chemistry is especially recommended for those planning a college career path in a STEM field of study.
General Physics (1.0)

Honors Physics (1.0)

Honors Physics course, Dr. Russell Clothier leads students through an investigation of matter and its motion through time and space, along with related concepts such as energy and force. The Honors Physics course was developed to help students build a strong foundation in basic physics prior to taking Advanced Placement Physics. We have found that students often struggle with AP Physics when they have a weak foundation in the basic concepts and mathematical skills of general physics. Honors Physics helps to fill in holes in student understanding, helping them to create a strong foundation of general physics concepts upon which they can build.

AP Physics (1.0)

AP Physics 1 is an algebra-based, introductory college-level physics course. Students expand their understanding of Physics through inquiry-based investigations as they explore topics such as:

Kinematics
Dynamics
Circular Motion and Gravitation
Energy
Momentum
Rotational Motion
Simple Harmonic Motion
Mechanical Waves
Electrostatics
Circuits
Problem Solving
It is recommended that students complete Physics prior to taking this Algebra-based course. This course has been audited and approved by the College Board.

Environmental Science (1.0)

Environmental Science provides high school students an introduction to the study of the natural world and how it is influenced by human activity. Students will explore the patterns and processes of Earth and how these are affected by natural and human impacts. They will study environmental problems that our planet is facing today and various efforts to solve these problems, ultimately understanding the need for a sustainable future.

AP Environmental Science (1.0)

The AP Environmental Science course encourages students to engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Throughout the course and its lab sessions, students will analyze environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. This interdisciplinary course, embraces topics from geology, biology, environmental studies, environmental science, chemistry, and geography. **It is recommended for students who have completed Algebra I and two years of high school laboratory science. This course has been audited and approved by the College Board to provide students with a college-level learning experience.**

HISTORY / SOCIAL STUDIES COURSES

United States History (1.0)

United States History course provides a thorough examination of United States history from the days of reconstruction to modern America. Students will explore significant events, social movements, and political developments that have shaped the nation's trajectory. The course begins by studying the end of the Western frontier, the Age of Enlightenment, and the creation of the Constitution. It then delves into the Industrial Revolution, immigration boom, Progressive Era, and America's imperialistic endeavors during the Spanish-American War.

By the end of the course, students will have a comprehensive understanding of the historical forces that have shaped the United States and its role in the modern world.

Throughout the course, students will develop critical thinking skills, engage with primary and secondary sources, and analyze complex historical phenomena. The course aims to foster a nuanced understanding of American history, enabling students to comprehend the nation's past, evaluate its present, and navigate its future.

AP US History (1.0)

AP United States History, taught by Todd Edmond, has been audited and approved by College Board to provide students with college-level learning experience. In this course, students learn about the developments that have shaped United States history through the critical analysis of historical events and materials.

World History (1.0)

World History, a full year course, delves into the history of world civilizations. This course covers major events in history, from the dawn of civilization up through present-day. Students will study the geography and populations of different areas. Students will study the major events that have shaped society and discuss how different cultures and conflicts have affected the world as we know it today.

World Geography (1.0)

World Geography course investigates the earth in which we live, providing an in-depth look at the the physical attributes of its lands and oceans, as well as the how its climate and geographical features have shaped the culture and economy of the people that live in specific regions. Students will explore how people deal with difficult environments and how they use their environment to their advantage. They will investigate geography-related challenges that lie ahead, as well as physical resource management. This course provides high school students with a strong foundation in world geography helping them to better understand the world around them.

AP World History (1.0)

AP World History: Modern, students will explore the major themes and skills necessary to analyze historical events and developments. The course is divided into nine units, each focusing on a different period and topic in world history. The units delve into specific topics such as trade networks, land-based empires, transoceanic interconnections, revolutions, consequences of industry, global conflict, Cold War and decolonization, and globalization. Students will examine the expansion of trade, the rise and strategies of land-based empires, the exploration and colonization of the Americas, Africa, and Asia, the Age of Revolutions, the consequences of industrialization, global conflicts in the 20th century, the Cold War and decolonization, and the processes and effects of globalization.

Throughout the course, students will analyze causation, explore different cultures and civilizations, compare and contrast societies, and examine the interconnectedness of historical events and developments. By the end of the course, students will have gained a comprehensive understanding of world history and the ability to analyze and interpret historical phenomena.

US Government and Civics (0.5)

Economics course provides students with an introduction to the foundational principles of the economics of the world. Instruction ranges from markets and demand, GDP, banking, policy, inflation, and unemployment, to trade, currency and competition.

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AP European History (1.0)

AP European History course, students learn about the cultural, economic, political, and social developments that have shaped today's world by studying European history from 1450 to the present. Students study the great awakening referred to as the Renaissance, as well as the reformations that took place during this critical time in history. They study the religious tensions and wars of this period, as well as revolutions, industrialization, liberalism, conservatism, and nationalism. They also learn about socialism and Marxism, the second industrial revolution, and the World Wars. They go on to study Europe in the Twentieth Century, with its technology, its religious and social transformations, its feminism, its "modern" women, and its new political voices and social life. **This course has been audited and approved by College Board to provide students with a college-level learning experience.**

Personal Finance (0.5)

Personal Finance course is designed to prepare students with the skills and knowledge needed to shape their financial future. The course will provide a tool-kit of knowledge resources that will empower students to make informed financial decisions. The course covers real world topics including income, money management, credit, as well as saving and investing. Students will have the opportunity to explore concepts such as budgeting; checking and saving accounts; and investment options. The course also teaches sound practices in the areas of finance, debt, risk management, taxes, and credit management.

Psychology (1.0)

Psychology introduces students to the science of psych. Students learn foundational knowledge regarding the scientific method, and human anatomy, and apply this to the study of memory, learning, stress, thought and personality, and states of consciousness. Students also analyze common psychological disorders career paths within Psychology.

AP Psychology (1.0)

AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. Topics discussed include:
Biological bases of behavior
Sensation and Perception
Learning and Cognition
Motivation
Developmental Psychology
Testing and Individual Differences
Treatment of Abnormal Behavior
Social Psychology
T**his course has been audited and approved by the College Board.**

Epic Moments in World Hist. (1.0)

Epic Moments in World History is an elective History course that will take students through the beginnings of civilization, to the present day, looking into just how our global society has evolved into the world we now live in.

FINE ARTS COURSES

Music Appreciation (1.0)

Music Appreciation course provides an overview of the development of western music from Pre-Renaissance to Modern times on the European continent and in America. The focus is on select composers and how the influenced musical styles – and on enjoying our rich heritage of music.

AP Music Theory (1.0)

This rigorous AP Music Theory course provides students with an in-depth foundation of music theory, including the elements of musical composition. It is an excellent preparation for students desiring a music-related career and for those planning to take the AP Music Theory exam. **AP Music Theory has been audited and approved by the College Board.**

AP Drawing (1.0)

AP Drawing course is designed to provide students with a comprehensive understanding of the fundamentals of drawing. The course is divided into sixteen units, each of which focuses on a different aspect of drawing. In the first unit, students will be introduced to the course and its various components, including the sustained investigation, and will learn about the importance of ethics, artistic integrity, and plagiarism.

Collaborative Theatre (1.0)

Collaborative Theatre course focuses on the network of art forms that all work together to tell a story on the stage. Students will examine the inception of theatre and its history as well as the tools and techniques of theatre artists, both onstage and backstage. They will also explore elements of design, including scenic and costume design. The course will conclude with a look at careers in the professional and academic theatre industry.

HEALTH & SOCIAL- EMOTIONAL

High School Social & Emotional Health 1 (1.0)

High School Social & Emotional Health 1 course is the first level in the high school pathway focused on social development and emotional well being. This course helps students to explore their own potential and the choices that lie before them as they grow to adulthood. Students consider their own ability to choose the kind of person they want become and learn how to use skills like goal setting to become that person. Students explore personal aspects of their lives as well as relationships and the potential they have to impact others, as well as to gain inspiration and guidance from them. Students continue in Social and Emotional Learning (SEL) as they investigate ways to make their lives the best that they can be and preparing students to face the future with awareness and positivity.

High School Social & Emotional Health 2 (1.0)

High School Social & Emotional Health 2 course is the second level in the high school pathway focused on social development and emotional well being. This course is designed to take students to the next level of dealing with both social and emotional challenges. This course presents students with real-life scenarios, and allows them to determine how to make the choices needed in gaining positive outcomes. Students will learn about healthy lifestyles, positivity, and the impact that they can personally make on bettering their world.

High School Health (1.0)

This five-star course was developed in association with Children's Mercy Hospital and is aligned with the National Health Education Standards. Course topics include:
Physical Fitness
How your body works
Understanding Disease
Drugs and Medicines
Adolescence
First Aid
Hygiene and Healthcare

Physical Education (1.0)

The Physical Education course is designed to provide students with a comprehensive understanding of various aspects of physical fitness and activity. The course begins with an Introduction to Physical Education, focusing on safety practices, muscular strength, flexibility, and cardiovascular endurance. Students learn to analyze their fitness levels and understand the importance of warm-up and cool-down techniques, laying the foundation for a lifetime of physical well-being.

As the course progresses, students delve deeper into Fitness Principles and Efficiency Workouts, exploring different types of workouts, body composition, aerobic and anaerobic activities, and resistance training. They also focus on specific sports such as soccer, football, basketball, and baseball, learning their history, rules, essential skills, and the importance of protective equipment. Aquatics instruction in swimming techniques further enhances their physical capabilities. Additionally, students explore individual and dual activities like tennis, badminton, and volleyball, emphasizing cooperation and teamwork. Throughout the course, critical thinking skills are developed, enabling students to problem-solve in physical activity settings.

Physical Education also addresses safety, biomechanics, goal-setting, fitness assessment, and advanced concepts such as extreme environment safety and the societal benefits of physical fitness. By the course's end, students emerge with not only improved physical abilities, but also with a deep understanding of how physical activity contributes to overall health and well-being.

FOREIGN LANGUAGE COURSES

Discover Spanish (1.0)

This course is designed for students seeking a mastery of Spanish as a second language. The course is taught by the Discover Method, making it the right choice for students of any native tongue having little or no Spanish background.

Discover Portugese (1.0)

Discover Portuguese is taught using the Discover Method, making it the right choice for students of any native language having little or no Portuguese background.

French I (1.0)
French II (1.0)

German I (1.0)
German II (1.0)

Spanish I (1.0)
Spanish II (1.0)
Spanish III (1.0)

American Sign Language

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American Sign Language

In this ASL course, students will start by learning the basics like the five parameters of signing and the alphabet. They'll practice fingerspelling and get familiar with common greetings and colors. As they progress, they'll dive into more complex topics such as family relationships, emotions, and everyday activities. Each unit builds on what they've learned before, with plenty of opportunities for practice and review. By the end of the course, students will be able to converse in ASL on a wide range of topics, from talking about their families to discussing the weather or shopping. They'll also gain insight into Deaf culture and history, understanding how ASL is used in everyday life and its significance to the Deaf community. With these skills, students will be well-equipped to communicate effectively in ASL at the novice level and engage respectfully with Deaf individuals and communities.

STEM COURSES

STEM 1: Intro to Coding (1.0)

STEM 1: Introduction to Coding course, students are taught how to program using the Blockly coding language. With Blockly, everything is done with little building blocks that snap together in an intuitive way. Each block represents a small piece of code that together make an entire program. Coding with blocks allows students to focus on the fundamental principles of coding without the challenging initial learning curve required for traditional programming languages. Students will be led through activities with incrementally more advanced building blocks. Each block is similar in structure to the syntax and style of real world programming languages. A

STEM 2: JavaScript (1.0)

STEM 2: JavaScript is the second coding course in the STEM-10 initiative. Students are taught how to code first with Blockly and then with JavaScript source code. With Blockly, everything is done using little building blocks that snap together in an intuitive way. The blocks are used to help introduce students to the JavaScript syntax. Students will study fundamental programming concepts, as well as practice writing their own source code.

STEM 3: Electronics and Coding (1.0)

STEM 3: Electronics and Coding course, students are taught the fundamental principles and aspects of electronics, as well as basic coding for electronics. Utilizing the JavaScript language and an on-screen circuit-board simulator, students are able to code simulated real-world electronics. They learn about circuits, schematics, and circuit boards, as well as electrical current, resistance/ resistors, and seven-segment displays. They study electromagnets, electric motors, and electric generators, as well as semiconductors and micro-controllers. Students develop their understanding of the JavaScript language, studying code statements, logic statements, and breaks, as well as switch statements. They explore variables, operators, data types, and functions. They discuss arrays, objects, and digital signals.

Fundamentals of Design (1.

Fundamentals of Design is a year long course focused on introducing students to the technical art of 3D printing while growing the mind into the 3D design process, beginning with design ideas and developing them into reality. The 3D printing process is revolutionizing the way prints are converted seamlessly and accurately into functional objects. In this course, students will learn a vast scope of knowledge about 3D printing, starting with an inclusive overview regarding the innovative technology to the implementation of 3D processes used to create 3D models.

Introduction to Java (1.0)

Introduction to Java course, students are taught basic programming using the Java coding language. They use the jGrasp editor/compiler along with the Java JDK to design and code, and to learn about variables, operations, data types, input and output, libraries, selection statements, arrays, functions, and methods.

AP Computer Science Principles (1.0)

AP Computer Science Principles course introduces students to the creative aspects of programming, abstractions, algorithms, big data, the Internet, cybersecurity concerns, and computing impacts. Students will learn to create and implement computer programs using current technologies for both self-expression and problem solving. Through hands-on application and examples, students will also explore career options while addressing ethical and relevant issues for today's world. This course has been audited and approved by College Board to provide students with a college-level learning experience.

AP Computer Science A (1.0)

AP Computer Science A has been audited and approved by College Board to provide students with a college-level learning experience. This course instructs students on core aspects of computer science. Students will learn to create and implement computer programs that solve problems relevant to today's society, as well as deploy programming tools and effectively deal with complex problems through hands-on application and examples.

CAREER & TECHNICAL COURSES

Business Management (1.0)

Business Management is a course that is appropriate for both students on a business career path as well as students seeking to attend college in a business related field. Course topics include:

- Management and Leadership
- Planning and Change
- Economics and Ownership
- Regulation and Communication
- Business Metrics
- Capitalization
- The Product
- Supply Chain Management
- Human Resources
- Managing the Manager

Electrical Technology I (1.0)
Electrical Technology II (1.0)

This CTE courses give students who are interested in a career path in an electrical-related field - including general construction - a foundation of knowledge and practice necessary for a successful career.

HVAC-R I (1.0)
HVAC-R II (1.0)

This Heating-Ventilation-Air Conditioning-and Refrigeration course, filmed in 3-D, provides students with a basic foundation of knowledge and skill required for a career in the HVAC-R field. It is a two-part course of study preparing students for HVAC–R certification.

Info Management I (1.0)
Info Management II (1.0)

Information Management Iis a two-part course, and provides students with an introduction to how businesses use technology to manage immense amounts of data and develops general study skills for continuing education. Through historical context, extensive examples, and practice, students learn about the importance of making informed decisions based on data mining and analysis and the inquiry skills necessary to avoid pitfalls. This course develops communication skills while providing a firm foundation for students looking to excel in technology and management related advanced postsecondary degrees. Students will gain an understanding of using the Internet to promote a business and the responsibility that goes along with worldwide communications.

Medical Terminology (1.0)

Medical Terminology provides general study skills and a firm foundation for students preparing for postsecondary education to pursue a career in the medical field. Anatomical instruction is coupled with the investigation of key related terminology not only dealing with "what" but also "why" and "how" allowing students apply the information. Specifically, students explore the structures, functions, and terms related to disease and the bodily systems, including the skeletal, muscular, cardiovascular, lymphatic, respiratory, digestive, nervous, integumentary, endocrine, and reproductive systems. Students learn about specific health care professions and the unique role each plays. Through the study of this material students learn effective deciphering skills enabling them to decode medical terminology they have seen and terminology to which they are yet to be exposed.

Plumbing Technology I (1.0)
Plumbing Technology II (1.0)

These CTE Plumbing courses, provides students with a basic foundation of knowledge and skill required for a career in the plumbing technology field. It is also useful for students desiring a career in general construction. It is the first in a two-part course of study preparing students for Plumbing Technology certification.

Introduction to Accounting (1.0)

Introduction to Accounting explores the field of accounting, covering the process of recording, analyzing, classifying, summarizing, and communicating accounting information. Students will have the opportunity to learn how to interpret and formulate financial information for use in management decision making. Mr. Rogers helps students to investigate the impact of industry standards as well as economic, financial, legal, and ethical factors.

Accounting I (1.0)
Accounting II (1.0)

This two-part Accounting course examines the use of accounting and several of its various aspects. Some of the topics that will be explored include financial statements and how they are linked, bank operations, and accounts payable vs. accounts receivable. Next, it will dive deeper into inventory control and how to track it. Corporations, payroll activities, and government regulations will be discussed with various case studies offered in order to provide context. Finally, the course will conclude with ratios, depreciation, and bonds, offering students a fundamental knowledge in the value of proper accounting practices. Students will gain an understanding of the laws and regulations associated with accounting, and recognize why these regulations are in place.

Business, Marketing, & Fin. (1.0)

This CTE Business course, taught by Mark Rogers, provides a basic business, marketing, and finance background for students looking for a career in business or for students desiring further preparation before entering college in a business and finance related major. Course topics include:

- Economics
- Management
- Operations
- Finances
- Future Planning
- Insurance
- Accounting
- Communication
- Human Resources
- Personal Growth
- Taxes and Illicit Activities

Investigating Careers (1.0)

The Investigating Careers course covers a wide range of career fields, providing students with valuable insights and knowledge. In the first four units, students explore careers in Agriculture and Natural Resources, Architecture and Construction, Arts and Communication, and Business and Administration. They learn about managerial roles, fundamental practices, and industry-specific skills. These units provide a strong foundation for understanding various career paths. In the subsequent units, students delve into specific career sectors such as Education and Training, Finance and Insurance, Government and Public Administration, Health Science, Hospitality, Tourism, and Recreation, and Human Services. They gain insights into the responsibilities, challenges, and opportunities in these fields, preparing them for potential careers in these sectors.

College & Career Readiness (1.0)

The College and Career Readiness course is designed to prepare students for success in their academic, professional, and personal lives. The course has 15 comprehensive units that guide students through a journey of self-discovery, career exploration, and practical skill development. Throughout the course, students explore career influences, understand their strengths and interests, and learn the art of setting goals and financial literacy. They gain valuable insights into the job search and application process, honing their interview skills and ultimately setting themselves up for success in their chosen careers. The course also provides a comprehensive overview of workplace dynamics and even delves into military career options, ensuring students are well-prepared to make informed decisions about their future paths. With a focus on proactive preparation and personal growth, this course equips students with the knowledge and skills they need to confidently navigate the transition to college and the professional world.

Instructional Standards in Edu. (1.0)

Instructional Standards in Education and Training provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, record keeping, and other responsibilities of teachers, or other educational personnel.

Mastering Microsoft Excel (1.0)

The Mastering Microsoft® Excel® course focuses of providing students with a solid foundation on the many features and applications of the Microsoft Excel spreadsheet program. Excel, being a vastly versatile and widely used tool in the modern workforce, is a skill integral to success for students planning for any business-related career. This course explores topics from basics of creating workbooks to advanced functions using macros, as well as how to work with other Microsoft Office programs.

Principles of Agriculture (1.0)

The Principles of Agriculture course provides a broad overview of the largest industry in the United States, the field of agriculture. From the clothing we wear and the food we eat to the vehicles we drive and the devices we use to communicate, agriculture is involved in some way in providing us with the necessities and conveniences of modern life. In the Principles of Agriculture course, students begin by discussing what agriculture is and the careers that exist in this all-encompassing field.

Agriculture I (1.0)
Agriculture II (1.0)

This is a two-part course. The field of agriculture is broad and all-encompassing. From food and clothing to cell phones and trucks, all are either agricultural in nature or derived and related to agriculture in some way. In the Agriculture courses, students begin with an introduction to this comprehensive industry, including an overview of its six sectors. Through the main body of the course, students enjoy an in-depth exploration of animal science, one of these six sectors. They learn what is involved in working with cows, horses, swine, sheep/goats, and poultry, livestock and animals reared for produce. Students are also introduced to the FFA organization, and the opportunities and advantages it provides for those who choose a career in agriculture.

Fundamentals of Design (1.0)

Fundamentals of Design is a year long course focused on introducing students to the technical art of 3D printing while growing the mind into the 3D design process, beginning with design ideas and developing them into reality. The 3D printing process is revolutionizing the way prints are converted seamlessly and accurately into functional objects. In this course, students will learn a vast scope of knowledge about 3D printing, starting with an inclusive overview regarding the innovative technology to the implementation of 3D processes used to create 3D models.

Ethnic Studies (0.5)

The Ethnic Studies course explores the diverse cultures and peoples that make up the unique society of the United States—a nation shaped by waves of immigration and the blending of traditions from around the world. Students will examine the concept of ethnicity, the evolution of American culture, and how immigration patterns have influenced our nation's history. Through a deep dive into the unique histories and contributions of various communities, students will develop an appreciation for the differences that define us and the unity that brings us together as one nation. By understanding our culture and its roots, students will gain a deeper awareness of their identity, their community, and their role in celebrating and preserving the rich tapestry of American life. This course is a single-semester course.

Public Speaking (0.5)

The Acellus Public Speaking course equips students with essential communication skills through a comprehensive exploration of key topics, including overcoming public speaking anxiety, conducting audience research, and gathering credible information to craft compelling messages. Students will learn to structure speeches effectively, using clear language and rhetorical techniques, while mastering delivery skills such as vocal variety, body language, and audience engagement. The course covers persuasive and informative speechwriting, enabling students to influence opinions and convey knowledge confidently. Additionally, students will practice adapting to various speaking situations, from formal presentations to impromptu talks, fostering versatility and poise in diverse real-world contexts. Course topics include:

Speaking in Public
Research and Organization
Structure and Language
Delivery
Persuasive Speeches
Speaking Situations and Presenting