

GOAL Digital Academy

Course Descriptions

2016- 2017



LANGUAGE ARTS

ENG 100 **English 9** – The English 9 course includes engaging and interactive instruction about reading, writing, speaking and listening, and language, with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to Grade 9. Throughout the course, students practice narrative, informative, and argument writing. Students also develop and deliver presentations, and participate in discussions with their peers. (1.0 credit) (Course Content provided by FuelEd)

ENG 101 **English 10** – The English 10 course includes engaging and interactive instruction about reading, writing, speaking and listening, and language, with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to Grade 10. Throughout the course, students practice narrative, informative, and argument writing. Students also develop and deliver presentations, and participate in discussions with their peers. Can also be taken as an Honors Course. (1.0 credit) (Course Content provided by FuelEd)

ENG 102 **English 11** –English 11 Honors is a course that is designed to fully align to state standards while engaging and motivating students through the exploration and analysis of American literature. Each unit in the course includes lessons that address the various skills required by standards: reading, writing, speaking and listening, and language. Students learn about specific skills in workshop lessons, and then they apply and use those skills as they analyze reading selections appropriate to Grade 11, complete writing assignments, participate in discussions, and develop presentations. This course includes all the topics in English 11, as well as an independent honors project in each semester.Can also be taken as an Honors Course. (1.0 credit) (Course Content provided by FuelEd)

ENG 103 **English 12** – In this course you will be asked to choose the literature that interests you, analyze the subject matter as it is presented, and persuasively express your own ideas. Every genre of literature has its own conventions for expressing emotions, perceptions, information and biases. You will develop the tools to critically analyze what is being said, and share your insights with others.

As high school seniors, what you choose and what you say becomes very important. The purpose of this course is to provide you with doors to open, ideas to experience, and opportunities to effectively express what you think. Can also be taken as an Honors Course. (1.0 credit) (Course Content provided by FuelEd)

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ENG 104 **Journalism** – Students are introduced to the historical importance of journalism in America. They study the basic principles of print and online journalism as they examine the role of printed news media in our society. They learn investigative skills, responsible reporting, and journalistic writing techniques as they read, respond to, and write their own news and feature articles. Students conduct interviews, research, write, and design their own publications. (1.0 credit) Course

ENG 105 **Creative Writing 1** – In this course, students will explore a range of creative writing genres, including fiction, poetry, creative nonfiction, drama, and multimedia writing. Students will study examples of writing through classic and contemporary selections and will apply that knowledge and understanding to their writing. In addition, students will develop an intimate understanding of the writing process and its application to various projects. As students move through the course, they will understand and evaluate the writings of others, and be able to apply the evaluation criteria to their own writing. By the end of the course, students will have created a well-developed portfolio of finished written works. Learning activities include reading; listening; discussing; writing; multiple choice games; self-check activities; and reflective journals. The unit structure includes the broader idea of the unit as defined by the main heading. Units will include a combination of activities and will culminate in a submittal of the finished unit project. Unit projects will be developed in phases throughout each section of the unit. Unit lessons and performance tasks have been scaffolded carefully to help students achieve deeper levels of understanding.. (1.0 credit) Course

ENG 107 **English Foundations I*** - Students build and reinforce foundational reading, writing, and basic academic skills needed for success in high school. Through carefully paced, guided instruction and graduated reading levels, students improve reading comprehension and strategies, focusing on literacy development at the critical stage between decoding and making meaning from text. Instruction and practice in writing skills help students develop their composition skills in a variety of formats. If needed, students can continue their remediation of reading and writing skills with English Foundations II. (1.0cr)

ENG 108 **English Foundations II*** - Students build and reinforce foundational reading, writing, and basic academic skills needed for success in high school. Struggling readers develop mastery in reading comprehension, vocabulary building, study skills, and media literacy. Students build confidence in writing fundamentals by focusing on composition in a variety of formats, grammar, style, and media literacy. (1.0cr)

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MATHEMATICS

MAT 101 **PreAlgebra FE** – PreAlgebra is the recommended course for 9th grade students who have successfully completed their middle school math courses. The course reviews general math skills and introduces the use of variables in equations for problem-solving. **Placement test available.** (1.0 credit)

MAT 102 **Algebra 1**– The Algebra 1 course is intended to formalize and extend the mathematics that students learned in the middle grades. Because it is built to follow revised middle school math courses, the course covers slightly different ground than previous versions of Algebra. In this course, students deepen their understanding of linear and exponential relationships by contrasting them with each other. Students also apply linear models to data that exhibit a linear trend. The course also covers analyzing, solving, and using quadratic functions. **Placement test available.** (1.0 credit)

MAT 103 **Geometry FE** – Students learn to recognize and work with geometric concepts in various contexts. They build on ideas of inductive and deductive reasoning, logic, concepts, and techniques of Euclidean plane and solid geometry and develop an understanding of mathematical structure, method, and applications of Euclidean plane and solid geometry. Students use visualizations, spatial reasoning, and geometric modeling to solve problems. Topics of study include points, lines, and angles; triangles; right triangles; quadrilaterals and other polygons; circles; coordinate geometry; three-dimensional solids; geometric constructions; symmetry; the use of transformations; and non-Euclidean geometries. Compared to MTH202, this course has a more rigorous pace and more challenging assignments and assessments. MTH203 also covers additional topics such biconditionals, rotations of points in a coordinate plane, creating and interpreting truth tables, parametric equations for lines in three dimensions, finding the equation of a circle from three points, input -output tables for logical gates, and several theorems including the Jordan Curve Theorem, Pappus' Theorem, and Desargues' Theorem. **PREREQUISITES:** Algebra I (or equivalent)

MAT 104 **Algebra II** – In this Algebra 2 course, students build on their work with linear, quadratic, and exponential functions, and extend their repertoire to include polynomial, rational, radical, and trigonometric functions. Students also expand their ability to model situations and solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The course covers sequences and series, probability distributions, and more advanced data analysis techniques. (1.0 credit)
Full Year Course

MAT104A **Algebra IIA-** Topic areas of Algebra II: Part A include review of the real number system including rational numbers, rules for combining and multiplying real numbers, order of operations, connecting words and numbers through expressions, developing a plan to solve a problem, combining like terms, definition and examples of ordered pairs, grids, quadrants,

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abscissa, defining linear equations, graphing equation systems, three-variable equations, matrix multiplication, transformation, point and matrix transformations, polynomial types, zero as an exponent, finding higher variables, factoring numerators, and solving complex rationals.

(1.0 credit) Part A of a 2 year Math program

MAT104B **Algebra IIB** - Continuing coursework from the Algebra II: Part 1, this title covers the review of square roots, radicals, complex pure and imaginary numbers, solving and factoring, identifying and evaluating the discriminant of a quadratic equation, rewriting equations, solving problems with number lines, graphing parabola, circle parts and formulas, hyperbola, graphing quadratic equations and inequalities, inverse functions, compound interest problems, sequences of numbers, identification of sigma, examples and definition of common ratios, finite series, and solving factorial problems.

(1.0 credit) Part B of a 2 year program

MAT 101C **CBI Pre-Algebra** -These career-based mathematics courses should focus on a small number of topics taught in depth, with a balance among skills, understanding, reasoning and problem solving. The purpose in these courses is to develop the ability to tie together Number and Quantity, Algebra, Functions, Geometry and Statistics around a common theme, career or reasoning. Courses may be built from any of the content standards that support the mathematical connections within a specific career pathway. The curriculum should engage students in using mathematical models to solve real-world problems through effective and accurate use of mathematical notation, vocabulary and reasoning. This is an opportunity to provide courses that directly connect the learning of school mathematics to the world students will embrace as graduates. (1.0 credit)

MAT 102C **CBI Algebra 1** - These career-based mathematics courses should focus on a small number of topics taught in depth, with a balance among skills, understanding, reasoning and problem solving. The purpose in these courses is to develop the ability to tie together Number and Quantity, Algebra, Functions, Geometry and Statistics around a common theme, career or reasoning. Courses may be built from any of the content standards that support the mathematical connections within a specific career pathway. The curriculum should engage students in using mathematical models to solve real-world problems through effective and accurate use of mathematical notation, vocabulary and reasoning. This is an opportunity to provide courses that directly connect the learning of school mathematics to the world students will embrace as graduates. (1.0 credit)

MAT103C **CBI Geometry** -These career-based mathematics courses should focus on a small number of topics taught in depth, with a balance among skills, understanding, reasoning and problem solving. The purpose in these courses is to develop the ability to tie together Number and Quantity, Algebra, Functions, Geometry and Statistics around a common theme, career or reasoning. Courses may be built from any of the content standards that support the mathematical connections within a specific career pathway. The curriculum should engage students in using mathematical models to solve real-world problems through effective and accurate use of mathematical notation, vocabulary and reasoning. This is an opportunity to

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MAT104C **CBI Algebra IIC** - These career-based mathematics courses should focus on a small number of topics taught in depth, with a balance among skills, understanding, reasoning and problem solving. The purpose in these courses is to develop the ability to tie together Number and Quantity, Algebra, Functions, Geometry and Statistics around a common theme, career or reasoning. Courses may be built from any of the content standards that support the mathematical connections within a specific career pathway. The curriculum should engage students in using mathematical models to solve real-world problems through effective and accurate use of mathematical notation, vocabulary and reasoning. This is an opportunity to provide courses that directly connect the learning of school mathematics to the world students will embrace as graduates. (1.0 credit)

MAT 105 **Introductory Pre-Algebra*** – Provides students a survey of preparatory topics for high school mathematics, including the foundations for high school algebra and geometry. Appropriate technology, from manipulatives to calculators, should be used regularly for instruction and assessment. (1.0 credit)

MAT 107 **Introductory Algebra I*** -.Introductory algebra is a fundamental mathematics course. It is essential to master this course before moving on to more advanced material. Key concepts in introductory algebra involve the study of variables, expressions and equations. (1.0 credits)

MAT108 **Pre-Calculus/Trigonometry**** - Pre-calculus weaves together previous study of algebra, geometry, and functions into a preparatory course for calculus. The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. Topics include linear, quadratic, exponential, logarithmic, radical, polynomial, and rational functions; systems of equations; and conic sections in the first semester. The second semester covers trigonometric ratios and functions; inverse trigonometric functions; applications of trigonometry, including vectors and laws of cosine and sine; polar functions and notation; and arithmetic of complex numbers. Cross-curricular connections are made throughout the course to calculus, art, history, and a variety of other fields related to mathematics. (1.0 credits)

MAT106 **Calculus**** - This course provides a comprehensive survey of differential and integral calculus concepts, including limits, derivative and integral computation, linearization, Riemann sums, the fundamental theorem of calculus, and differential equations. Content is presented across ten units and covers various applications, including graph analysis, linear motion, average value, area, volume, and growth and decay models. In this course, students use an online textbook, which supplements the instruction they receive and provides additional opportunities to practice using the content they've learned. Students will use an embedded graphing calculator applet (GCalc) for their work on this course; the software for the applet can be downloaded at no charge. (1.0 credits)

SOCIAL STUDIES

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SOC 100 **World History** – This course covers the 9th grade Ohio social studies standards to help prepare students to take the AIRs Test. World History covers the modern era of history around the world, comparing governments of different countries and examining important events worldwide. (1.0 credit)

SOC 101 **American History** – This course covers the 10th grade Ohio social studies standards to help prepare students to take the AIRs Test towards Graduation. American History covers the history of the United States from about 1877 to the present. The course will also examine the impact of the United States on world affairs at the turn of the 20th century.
(1.0 credit)

SOC 102 **American Government** – This course covers the 11th grade Ohio social studies standards to help prepare students to take the AIRs Test towards Graduation. Students study the U.S. Constitution, the responsibilities of the three branches of the U.S. government and various issues of economics. (1.0 credit)

SOC 100A **CBI World History *** - History of the World II covers China, Japan, isolationism, Asia, Charles Townshend, the transcontinental railroad, socialism, science in the 1800s, pioneers in medicine, Romanticism, Impressionism, the Romanov dynasty, Moscow, Catherine the Great, Latin America, Spanish colonization, Queen Victoria, the U.S. in the 1800s, German unification, the Age of Imperialism, European influence in Africa, Indian resistance to British rule, the rise of nationalism, Allied forces, World War II, League of Nations, decline of trade, increase of women's rights, the Russian revolution, Vladimir Lenin, tensions between the Soviet Union and the United States, the Berlin Wall, Vietnam, fighting in Cambodia, western Europe, NATO, the United Nations, and eastern Europe. Curriculum will be adapted to help students who are on track toward graduation, but need extra support. Based on national and state standards, and filled with accessible features, they engage students who struggle with reading, language, or a learning disability.(1.0 credit)

SOC 101A **CBI American History *** - covers the costs of the Civil War, the 13th Amendment, tenant farmers, sharecroppers, life on the plains, the American Indian, 1862 Homestead Act, railroad industry, Henry Ford and the assembly line, the Roaring Twenties, the 18th Amendment, prohibition, the Great Depression, the Dust Bowl, the Paris Peace Conference, World Wars I and II, Pearl Harbor, D-Day, the Holocaust, the Cold War, Harry Truman, Dwight Eisenhower, John F. Kennedy and his assassination, the Vietnam War, Presidents Nixon, Ford, Carter, Reagan, Bush, Clinton, George W. Bush, and terrorism. Curriculum will be adapted to help students who are on track toward graduation, but need extra support. Based on national and state standards, and filled with accessible features, they engage students who struggle with reading, language, or a learning disability.
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SOC 102A **CBI American Government** *- This course covers the 11th grade Ohio social studies standards to help prepare students to take the AIRs Test towards Graduation. Students study the U.S. Constitution, the responsibilities of the three branches of the U.S. government and various issues of economics. Curriculum will be adapted to help students who are on track toward graduation, but need extra support. Based on national and state standards, and filled with accessible features, they engage students who struggle with reading, language, or a learning disability. (1.0 credit)

SOC 103 **Current Events 12** – This course covers the 12th grade Ohio social studies standards. Focusing on current topics in the news and world affairs, students develop the research and analysis skills essential to the study of history. (1.0 credit)

SOC 104 **Economics** - Economics can actually be defined a few different ways: it's the study of scarcity, the study of how people use resources, or the study of decision-making. Economics often involves topics like wealth, finance, recessions, and banking, leading to the misconception that economics is all about money and the stock market. Actually, it's a much broader discipline that helps us understand historical trends, interpret today's headlines, and make predictions for coming decades. (0.5 credit) Semester

SOC 105 **World Religions** – Everyone has a belief and a system, a person, or a thing that they put their faith in. Even if they put that faith or belief in themselves or if they believe there is no God or gods, they have a belief and a hope in which they put their trust. Religion has had and still has a major impact upon the lives of the people that inhabit this planet. Religion, in its various forms, is responsible for war, art, science, music, architecture, politics, law, taboos and various social customs. This course will address these issues. (0.5 credit) Semester

SOC 106 **Psychology** – Students are instructed in principles of psychology including ethics in psychology, IQ testing, human emotions, and addiction. (0.5 credit) Semester

SOC 107 **Sociology** – The study of social relationships, institutions, and group behavior of societies. (0.5 credit) Semester

SOC 108 **War and Foreign Policy** – It is the intention of this course to explore the foreign policy and the wars of the United States and in doing so discover the objectives of American foreign policy as well as the causes and results of the major wars that this nation has been involved in. This is to be more than a regurgitation of historical facts; the goal is to analyze, interpret and discuss how American foreign policy and America's wars have impacted the American people. (0.5 credit) Semester

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SOC 109 **Post Am. World** - The world is moving from anger to indifference, from anti-Americanism to post-Americanism. The fact that new powers are more strongly asserting their interests is the reality of the post-American world. (0.5 credit) Semester

COLLEGE CREDIT COURSES; (Approval by Administration)

SOC 108 **AP European History** – This course prepares students to take the European History Advanced Placement test. (1.0 credit)

SOC 107 **AP American History** – This course prepares students to take the American History Advanced Placement test. (1.0 credit)

SOC 109 **AP American Government** – This course prepares students to take the American Government Advanced Placement test. (1.0 credit)

SCIENCE

SCI 100 **Physical Science** – This course covers the 9th grade Ohio science standards to help prepare students to take the Air's Test. Physical science subjects are covered including minerals, energy, stars, and matter. (1.0 credit)

SCI 101 **Biological Science** – This course covers the 10th grade Ohio science standards to help prepare students to take the end of year Air's. Life science subjects are covered including ecology, cells, genetics and evolution. (1.0 credit)

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SCI102 **Environmental Science** - This course surveys key topic areas including the application of scientific process to environmental analysis; ecology; energy flow; ecological structures; earth systems; and atmospheric, land, and water science. Topics also include the management of natural resources and analysis of private and governmental decisions involving the environment. Students explore actual case studies and conduct five hands-on, unit-long research activities, learning that political and private decisions about the environment and the use of resources require accurate application of scientific processes, including proper data collection and responsible conclusions. (1.0 credit)

SCI 103 **Marine Science** – Since seventy-five percent of our planet is covered by water, there are plenty of things to see and research in all that water. Understanding our oceans, seas, and lakes is essential for our survival. In this course, you will join a marine expedition that will circle the earth. You will see everything from the warm waters around Central America to the Challenger Deep nearly seven miles straight down in the Pacific.

As a member of the expedition crew, you will conduct research, perform experiments, and discover man’s interrelationship with the marine environment. You will learn about the nature of science, the origins of the oceans, the chemical and physical structure of the marine environment, and the ecologies of the different places you visit. (1.0 credit) (Course provided by FuelEd)

SCI 104 **Chemistry** – Throughout this course, you will see inside lots of places that do chemistry-related things. You will see how chemistry works at a petroleum refinery, a water treatment plant, a hospital, even a scuba dive shop. You will also learn about the properties of atoms, elements and molecules. You will see how they join together to make the water you drink, the air you breathe, and the gasoline that powers your car. There are reasons that the physical world around you is the way it is, and chemistry has a lot to do with it.

The purpose of this course is to reveal the basic ways in which chemistry works, and how scientists are using chemistry to make our lives better. You will also do your own laboratory investigations. You will think like a scientist, and understand why even some very small things can make a very big difference. (1.0 credit) (Course provided by FuelEd) Prerequisites: Algebra I

SCI 105 **Intro. Anatomy & Physiology** – This course will cover the study human anatomy and physiology. The areas covered will include, medical terminology, basic chemistry, cell and tissue structure, and the 11 systems of the human body (integumentary, skeletal, muscular, nervous, endocrine, circulatory, lymphatic, digestive, respiratory, urinary and reproductive). (1.0 credit)

SCI 106 **Earth Science** – In this course, you’ll take a look at the sky above, the oceans below, and the rocks beneath our feet. Since the beginning of time our earth has been changing. You’ll discover that our earth is still changing, sometimes by natural forces, sometimes by the

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things that we humans do. What does not change, however, is the need to take good care of our planet.

In this course you'll learn to think like a scientist. You'll examine ancient fossils and perform scientific labs. You'll explore the past, present and possible future of this place we call home. And you won't have to go to the North Pole to do it. (1.0 credit)

SCI 107 **Comprehensive Biology*** - Comprehensive Biology covers a range of instructional topics including the definition of biology, atoms and elements, cell processes, comparison of DNA and RNA, identification of the kingdoms and phyla, fungal diseases, artificial reproduction, cnidaria, the worm phyla, nervous, circulatory, and respiratory systems of vertebrates, the human body support systems, digestion, skeletal support, the human spinal cord and brain, the digestive process, the importance of water in digestion and excretion, the male and female reproductive systems, gestation and childbirth, and other social issues in biology. (1.0 credit) (Course provided by FuelEd)

AG 101 **Animal Science** – This is an agriculture course designed to explore the uses of agricultural animals. Students study the beef, dairy, poultry, swine, sheep, and horse industries. (0.5 credit) Semester Course

AG 103 **Food Science** – Food Science uses everyday food practices to more easily explain the basic fundamental science concepts. Through experiments with yeasts, heat, liquid, etc., students experience hands-on activities to more easily understand nutrition, technology and science. Science principles are applied to food everywhere: in farm fields, in food processing plants, in home and restaurant kitchens, and in research laboratories. This course will assist students in making science relevant to the "real" world. (0.5 credit) Semester Course

SCI 100C **CBI Physical Science*** - Physical Science offers several distinctive components: an in-depth examination of the biological functions of vision and sound in relation to physical laws, the impact of scientific discoveries on technology and society, and an overview of natural hazards, including the impact of humans on the environment. The Physical Science course covers the fundamentals of chemistry, matter, energy, and various scientific fields. The lessons are designed to move the student beyond the level of basic knowledge into critical thinking and learning activities.(1.0cr FuelEd curriculum)

SCI 101C **CBI Biological Science*** - Comprehensive Biology covers a range of instructional topics including the definition of biology, atoms and elements, cell processes, comparison of DNA and RNA, identification of the kingdoms and phyla, fungal diseases, artificial reproduction, cnidaria, the worm phyla, nervous, circulatory, and respiratory systems of vertebrates, the human body support systems, digestion, skeletal support, the human spinal cord and brain, the digestive process, the importance of water in digestion and excretion, the male and female reproductive systems, gestation and childbirth, and other social issues in biology. (1.0cr FuelEd curriculum)

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SCI 118 **Physics** - A science class in which students will study the principles of chemistry and physics that include matter, energy, structure of atoms, chemical reactions, forces, and motion.(1.0cr FuelEd curriculum)

CAREER - TECHNICAL EDUCATION

AGRICULTURE

CAG400 **Intro. To Agriscience**** - Agriculture has played an important role in the lives of humans for thousands of years. It has fed us and given us materials that have helped us survive. Today, scientists and practitioners are working to improve and better understand agriculture and how it can be used to continue to sustain human life. In this course, students learn about the development and maintenance of agriculture, animal systems, natural resources, and other food sources. Students also examine the relationship between agriculture and natural resources and the environment, health, politics, and world trade.

CAG401 **Biological Science**** - In this comprehensive course, students investigate the chemistry of living things: the cell, genetics, evolution, the structure and function of living things, and ecology. The program consists of in depth online lessons, including extensive animations, an associated reference book, collaborative explorations, virtual laboratories, and hands-on laboratory experiments

CAG402 **Environmental Science**** - This course surveys key topic areas, including the application of scientific process to environmental analysis; ecology; energy flow; ecological structures; earth systems; and atmospheric, land, and water science. Topics also include the management of natural resources and analysis of private and governmental decisions involving the environment. Students explore actual case studies and conduct five hands-on, unit-long research activities, learning that political and private decisions about the environment and the use of resources require accurate application of scientific processes, including proper data collection and responsible conclusions.

CAG406 **Earth Science**** - This course provides students with a solid earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The program consists of online lessons, an online reference book, collaborative activities, virtual laboratories, and laboratories students can conduct at home. The course provides a base for further studies in geology, meteorology, oceanography, and astronomy, and gives practical experience in implementing scientific methods.

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ALLIED HEALTH

CAH400 **Business and Healthcare Explorations**** - This course is designed as an exploration of two career clusters. Students will get an introduction to these fields so that they can better assess which specialization pathway to pursue. In this course, students explore basic concepts in the broad areas of business and healthcare as well as career options in each area. In addition to studying concepts of entrepreneurship, accounting, and marketing, students explore these concepts on scales that range from a single person to nations. The second part of this course introduces students to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. Students explore the importance of diagnostics and research in the identification and treatment of diseases.

CAH401 **Health Science I**** - Will we ever find a cure for cancer? What treatments are best for conditions like diabetes and asthma? How are illnesses like meningitis, tuberculosis, and the measles identified and diagnosed? Health sciences provide the answers to questions such as these. This course introduces students to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. Students explore the importance of diagnostics and research in the identification and treatment of diseases. The course presents information and terminology for the health sciences and examines the contributions of different health science areas.

CAH402 **Anatomy and Physiology I****- Anatomy and Physiology Levels 1 and 2 provide a thorough introduction to the basics required for the study of the human body and how it functions. Students will receive a general introduction to life functions, the terminology, and phonetic pronunciations used to describe body parts and their locations as well as an overall review of human development and body processes. This course also includes Infection Control and Standard Precautions, which emphasizes the importance of maintaining health and safety in the healthcare work environment as well as highlights the latest practices and protocols. (Levels 1 and 2 must be taken in sequential order)

CAH403 **Anatomy and Physiology II**** - Anatomy and Physiology Levels 1 and 2 provide a thorough introduction to the basics required for the study of the human body and how it functions. Students will receive a general introduction to life functions, the terminology, and phonetic pronunciations used to describe body parts and their locations as well as an overall review of human development and body processes. This course also includes Infection Control and Standard Precautions, which emphasizes the importance of maintaining health and safety in the healthcare work environment as well as highlights the latest practices and protocols. Levels 1 and 2 must be taken in sequential order.

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BUSINESS MANAGEMENT

CBM400 Business and Healthcare Explorations** - This course is designed as an exploration of two career clusters. Students will get an introduction to these fields so that they can better assess which specialization pathway to pursue. In this course, students explore basic concepts in the broad areas of business and healthcare as well as career options in each area. In addition to studying concepts of entrepreneurship, accounting, and marketing, students explore these concepts on scales that range from a single person to nations. The second part of this course introduces students to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. Students explore the importance of diagnostics and research in the identification and treatment of diseases.

HOSPITALITY AND TOURISM

CHT400 Hospitality and Tourism** - With greater disposable income and more opportunities for business travel, people are traversing the globe in greater numbers. As a result, hospitality and tourism is one of the fastest growing industries in the world. This course introduces students to hotel and restaurant management, cruise ships, spas, resorts, theme parks, and other segments of the industry. Students learn about key hospitality issues, the development and management of tourist locations, event planning, marketing, and environmental issues related to leisure and travel. The course also examines some current and future trends in the field.

CHT401 Nutrition and Wellness** - This 1/2 credit course will introduce the student to an overview of good nutrition principles that are needed for human physical and mental wellness. Discussion of digestion, basic nutrition, weight management, sports and fitness, and lifespan nutrition is included. Application to today's food and eating trends, plus learning to assess for reliable nutrition information is emphasized.

CHT402 Skills for Health** - This course focuses on important skills and knowledge in nutrition; physical activity; the dangers of substance use and abuse; injury prevention and safety; growth and development; and personal health, environmental conservation, and community health resources. The curriculum is designed around topics and situations that engage student discussion and motivate students to analyze internal and external influences on their health-related decisions. The course helps students build the skills they need to protect, enhance, and promote their own health and the health of others.

CCA403 Intro to Culinary Arts** - Food is fundamental to life. Not only does it feed our bodies, but it's often the centerpiece for family gatherings and social functions. In this course, students learn all about food, including food culture, food history, food safety, and current food

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trends. They also learn about the food service industry and how to prepare some culinary dishes. Through hands-on activities and in-depth study of the culinary arts field, this course helps students hone their cooking skills and gives them the opportunity to explore careers in the food industry. = .5 credit course/One semester course

INFORMATION TECHNOLOGY/ARTS & COMMUNICATIONS

CIT400 **Art in World Cultures**** - Who is the greatest artist of all time? Leonardo da Vinci? Claude Monet? Michelangelo? Pablo Picasso? Is the greatest artist of all time someone whose name has been lost to history? Students will learn about some of the greatest artists while also creating art of their own, including digital art. The course explores the basic principles and elements of art, how to critique art, and how to examine some of the traditional art of the Americas, Africa, and Oceania in addition to the development of Western art. = .5 credit course/One semester course

CIT401 **3D Modeling**** -Are you interested in a career in technology? Are you curious about working in fields like virtual reality, video game design, marketing, television and motion pictures, or digital imaging? If so, this course in 3D Modeling is a great place to start! 3D Modeling is the foundation for all of these career paths. Gain a deeper understanding of graphic design and illustration as you use 3D animation software to create virtual three-dimensional design projects. Hone in on your drawing, photography, and 3D construction. This course will help develop the skills needed to navigate within a 3D digital modeling workspace while rendering 3D models, and is a good introduction careers in the fast-growing field of technology and design!

CIT402 **Intro to Digital Arts I**** - In this exploratory course, students learn the elements and principles of design as well as foundational concepts of visual communication. While surveying a variety of media and art, students use image editing, animation, and digital drawing to put into practice the art principles they've learned. They explore career opportunities in the design, production, display and presentation of digital artwork. They respond to the artwork of others, and learn how to combine artistic elements to create finished pieces that effectively communicate their ideas.

CIT403 **Digital Arts II**** - Students build on the skills and concepts they learned in Digital Arts I as they develop their vocabulary of digital design elements. By the end of the course, students will have created a collection of digital art projects for their digital design portfolio.

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JOBS FOR OHIO GRADUATES

JOG 106 **JOG 1** - The JOG program is mainly for students who are credit-deficient to make up credits. The program includes curriculum in career exploration and preparation, independent living skills, and interpersonal skills. Our JOG students have taken part in some community service activities such as a food drive for local homeless shelters and also taking the elementary students to a play. JOG counts as a credit in Careers. (1.0 credit per semester)

JOG 107 **JOG 2** - Continuation of JOG 1. (1.0 credit per semester)

JOG 108 **JOG 3** – Continuation of JOG 2. (1.0 credit per semester)

9CBI* **CBI Related** * See the course description for Ohio Career Based Intervention

10CBI* **CBI Related** * See the course description for Ohio Career Based Intervention

11CBI* **CBI Related** * See the course description for Ohio Career Based Intervention

12CBI* **CBI Related** * See the course description for Ohio Career Based Intervention

WORK **Work Study** - Work study is a course which allows students to earn credits for the life-experience of gaining and keeping employment. For each credit to be earned, students must present documentation of 160 hours worked per credit of work. Students can earn up to 3 credits during their high school career.

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ELECTIVES:

COM 101 **Business Systems Technology** – Can you use business-related computer software? Can you communicate effectively with your boss and coworkers? Can you look and sound like a valuable asset to your employer? Do you know what you are really good at? Being able to answer “yes!” to these and many other questions is the essential foundation for your career.

The purpose of this course is to guide you in building your career foundation. You will learn how to turn your computer into an effective tool for communication. You will learn how to create positive working relationships. And you will acquire the kinds of essential business skills needed for any successful career. Productive employees need both technology and people skills. Find both here in Business Systems and Technology. (1.0 credit)

REQUIRED COURSES

PE 100 **Phys Ed** – Students are instructed in personal fitness intended to inspire lifelong healthy habits. Students learn about cardiovascular fitness, strength training and flexibility improvement. This course is required for graduation. (0.25 credit) - Semester course

PE 101 **Life Time Fitness** - This course is designed to permit students to work on a variety of individual lifetime fitness activities. The class will focus on general wellness. Students will participate in various individual conditioning activities that promote lifetime fitness. (.25 credit) Semester course

HEA 100 **Health** – Students are instructed in personal health issues including personal hygiene, personal relationships, drug and alcohol use prevention, and sex education. This course is required for graduation. (0.5 credit) Semester Course

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CAR 100 **Intro to Online Learning** – This course is the first of two career-exploration courses required for graduation. Students will work through three strands of instruction, one on career exploration, one on technology skills needed for online learning, and one on personal goal setting and time management. (0.5 credit) Semester Course

CAR 101 **The Rest of My Life** – This course is the second of the two career-exploration courses required for graduation. Students narrow down their chosen careers and begin to explore the pathways to their chosen careers. They explore 2 year colleges, 4 year colleges, vocational schools, military enlistment, and apprenticeships. (0.5 credit) Semester Course

SOC 200 **Dollar\$ and Sense 1** - You will learn the basics of financial literacy and banking in this course. Topics covered include: bad debt, importance of spending plans, non-traditional financial services, being an informed consumer, buying stocks, sell strategy, mutual fund options, investing in education, planning for the future, purchasing your first home, taxes and tax planning, life insurance options, health insurance, property insurance, estate planning, and keeping money in perspective. You will have a variety of activities in this class including, lectures, assignments, quizzes and exams, course project. (0.5 credit) Semester Course

SOC 201 **Dollar\$ and Sense 2** - continuation of Dollar\$ and Sense 1. Basic personal financial management skills, including understanding of income, money management, saving, investing, spending and credit. The ability to make critical financial decisions. Knowing how to manage money, use credit effectively, build wealth, and make good financial decisions. (0.5 credit) Semester Course

VISUAL ARTS

ART 103 **Art 1** – In this course you'll experience the creative processes used by all artists. You'll learn how to analyze, interpret and evaluate art. But most of all, you'll have a portfolio of work that demonstrates your own skill and creativity as an artist.

Using the tools, tricks and techniques of professional artists, you'll create people and objects that leap off the page. You'll start with your sketchbook, and put down your ideas and impressions. You'll develop those ideas by using lines, colors, composition and perspective. You'll finish with a collection of original artwork that tells the story your way. (1.0 credit)

ART 107 **Art 2** – This class will help you to improve your drawing, painting and observational skills, even if you do not want to be a professional artist or designer. You will learn

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about yourself and the world around you, while you learn to see as an artist. These skills will help you in everything you do in life. You will have a choice of projects that suit your style. If you dream of being an artist or designer there are advanced projects that I have for you to tackle! Kits of basic art supplies are provided. (1.0 credit)

ART 105 **Digital Photography**- students will learn digital photography while working at their own individual skill level. Using the digital camera of their choice or purchased from school (\$40.00), they will explore lighting, color, texture, composition, and other subject matter to achieve a solid grounding in both technical and creative photographic processes. (1.0 credit)

ART 106 **Digital Photography 2** - course is focused on: artistic perception, creative expression, historical and cultural context, art and literacy and connecting and applying what is learned to careers in photography. Students are expected to master the properties and functions of the camera and will be introduced to advanced studio lighting and flash technology. Also, advanced skills in digital imaging and manipulation are taught. Finally, there is also a concentration on preparing images for the web and basic website maintenance. (1.0 credit)

Test Preparation for Air's Testing in Fall and Spring

CTA 110 **Test for Success** - Standardized **Test** Preparation. Build **students'** confidence to help them master effective **test**-taking strategies. Use of professional tips, sample questions, and lessons to more effectively integrate **test** review exercises into weekly lessons preparing them to feel confident when taking the Airs Test (.25 credit) Semester

FOREIGN LANGUAGE

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*****NOTICE:**

Student must have completed 1 full year with GOAL Digital Academy with passing grades or have passed beginning foreign language with a prior school.

Fuel Education: offers elective courses in five languages: Chinese, Spanish, French, German, and Latin. Each course uses a combination of learning tools to allow students to see and hear the language. Students will use webcasts, audio recordings, flashcards, games, and other tools to promote comprehensive learning of pronunciation, grammar, and vocabulary. This approach allows students to develop both written and conversational language skills.

Students will also learn about the culture and traditions of the language. World language explorations are available at the elementary level to introduce students to the basic elements of a language. World language discoveries are offered at the middle school level to begin to build a solid foundation in vocabulary and pronunciation. High school students can take a world language at four levels: level I, level II, level III, and advanced. (.5 per semester)

COURSE OVERVIEW:

1. **CBI - Career Based Intervention** - The Career-Based Intervention (CBI) program is a Career-Technical Education Program designed for students who are identified as disadvantaged (either academically or economically or both) or students with disabilities and who have barriers to achieve academic and career success. The program is to help students improve academic competence, graduate from high school, develop employability skills, implement a career plan and participate in a career pathway in preparation for postsecondary education and/or careers. (<http://www.cbiohio.com/>)
2. ****Fuel Education** -Fuel Education is for students aged K to twelfth grade. The browser based curriculum can be used in a traditional class setting, or by individual students outside of the classroom. Currently, Fuel Education is partnered with 2,000 school districts throughout the United States.

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3. **Credit Recovery (CR) Courses** - A+nywhere Learning System assists high school students who have failed or are at risk of failing a course can be quite a challenge. At GOAL Digital we use (ALS) courseware program to get our students back on track and on the road to their graduation. Students first take a pre-test to pinpoint the student's skills and deficiencies, and automatically assigns lessons that teach the missing skills. After students progress through the self-paced lesson material, post tests then measure and record academic gains, indicating whether students have displayed mastery of the lesson materials. (getfueled.com)

Course Description Book

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