

FALCON HIGH SCHOOL

Supplemental COURSE CATALOG

2025-2026



TABLE OF CONTENTS

TABLE OF CONTENTS.....	2
Introduction.....	2
Work Study and Internships.....	3
Independent Study.....	3
Course Description and Scheduling Catalog Information.....	4-22
Credit Recovery.....	4-13
Original Credit Classes.....	13-22
Falcon High School Counselors by Alpha Split.....	23
Last names A - D.....	23
Last names E - K.....	23
Last names L - Re.....	23
Last names Rf - Z.....	23
Dean of Career & College.....	23
Choice & Success Advisor.....	23
Administration.....	23

Introduction

This is a supplemental catalog to the FHS Course Guide 25/26. This catalog includes the credit recovery classes available to students, along with the original credit classes used for students that are in one of the following pathways: home based, expelled, home bound or needing an original credit due to career start scheduling limitations.

The mission of Falcon High School, an innovative learning community, is to foster competent citizens for a changing world by empowering students through personalized pathways and authentic experiences.

The programs at Falcon High School are designed to expand the general education experiences of all students and to prepare students for vocations and/or further education after graduation from high school. Students should choose their high school courses with post-secondary objectives in mind. It is important that students plan their high school experiences carefully. Assistance is offered through the Success Center and Administrative offices. This booklet is designed to serve as a planning guide.

Falcon High School does not discriminate on the basis of race, color, national origin, sex, age, or handicap in admission or access to, or treatment or employment in its education programs or activities. Inquiries concerning Title VI, Title IX, and Section 504 may be referred to the Zone

Leader, 10850 E. Woodmen Road, Falcon, CO, 80831, (719) 495-3601, or the Office of Civil Rights, U.S. Department of Education, 1961 Stout Street, Denver, CO 80294.

Work Study and Internships

Work Study

Prerequisite: Application required; 10th - 12th grade only.

Length: 1 semester **Credit:** 0.5 credit (Practical Art) **Fee:** None

The student will complete 75 hours of employment to become eligible for .5 practical arts credits or 150 hours of employment to become eligible for 1.0 practical arts credits. Students will not be granted more than 1.0 credits per semester, regardless of the hours beyond 150 hours worked.

WBL5690- Internship 60 hours

Prerequisite: Minimum of 2 weeks of good attendance, received internship interview preparation, parent/guardian permission, and job shadowing (recommended); 10th - 12th grade only.

Length: 60 contact hours **Credit:** 0.5 credit (Practical Art) **Fee:** None

The purpose of this course is to introduce students to business and industry experiences and partners while giving them the opportunity to develop important essential skills such as critical thinking and problem solving, collaboration, time management, self-direction and self-advocacy, leadership, and innovation. May count as an essential skills mastery demonstration.

WBL5690- Internship 120 hours

Prerequisite: Minimum of 2 weeks of good attendance, received internship interview preparation, parent/guardian permission, and job shadowing (recommended); 10th - 12th grade only.

Length: 120 contact hours **Credit:** 1 credit (Practical Art) **Fee:** None

The purpose of this course is to introduce students to business and industry experiences and partners while giving them the opportunity to develop important essential skills such as critical thinking and problem solving, collaboration, time management, self-direction and self-advocacy, leadership, and innovation. May count as an essential skills mastery demonstration.

Independent Study Length: Can be set as either Sem or Year Credit .5 per sem

Students are limited to 1 independent study class a semester/year. A written plan must be submitted to the building principal to be approved. Student will work with a teacher accredited in the course of independent study.

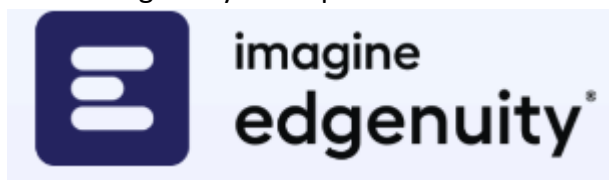
Credit Recovery & Online Courses

These courses are scheduled by counselor & admin recommendation only

Prerequisite: for Credit Recovery (CR) - to have failed the class in person. **Length:** 1 semester

Credit: .5 **Fee:** Credit Recovery \$25 per class

Edgenuity is the platform used:



imaginelearning.com/imagine-edgenuity
877-725-4257 solutions@imaginelearning.com

Credit Recovery - Alphabetical Order

CR Algebra 1 - S1 = Algebra 1_1 & CR Algebra 1 S2 = Algebra 1_2 Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Mathematics S1 | S2 | YEAR This course focuses on five critical areas: relationships between quantities and reasoning with equations, linear and exponential relationships, descriptive statistics, expressions and equations, and quadratic functions and modeling. This course builds on the foundation set in middle grades by deepening students' understanding of linear and exponential functions and developing fluency in writing and solving one-variable equations and inequalities. Students will interpret, analyze, compare, and contrast functions that are represented numerically, tabularly, graphically, and algebraically. Quantitative reasoning is a common thread throughout the course as students use algebra to represent quantities and the relationships among those quantities in a variety of ways. Standards of mathematical practice and process are embedded throughout the course, as students make sense of problem situations, solve novel problems, reason abstractly, and think critically.

CR Algebra 2 - S1 = Algebra II_1 & CR Algebra 2 - S2 = Algebra II_2 Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Mathematics S1 | S2 | YEAR This course focuses on functions, polynomials, periodic phenomena, and collecting and analyzing data. Students begin with a review of linear and quadratic functions, to solidify a foundation for learning these new functions. Students will make connections between verbal, numeric, algebraic, and graphical representations of functions and apply this knowledge as they create equations and inequalities that can be used to model and solve mathematical and real-world problems. As students refine and expand their algebraic skills, they will draw analogies between the operations and field

properties of real numbers and those of complex numbers and algebraic expressions. Process standards are embedded throughout the course, as students solve novel problems, reason abstractly, and think critically.

CR American Literature (CR English 12 in catalog)- S1 = American Literature S1 CR American Literature - S2 = American Literature S2 Length: 1 semester Credit .5

GRADE 9, 10, 11, 12 Language Arts S1 | S2 | YEAR In this course, students will journey through the history of American literature, from the early writings of Indigenous peoples and European settlers to modern texts. As students read, they are encouraged to use textual evidence to support their analyses and analyze the impact of the author's choices. Students make written and oral arguments to support claims, and they build upon previous writing skills to develop a formal and mature writing style. Students also develop their listening skills, integrating what they hear and what they read to form and communicate clear perspectives on a variety of issues.

CR Anatomy and Physiology - S1 = for transfer students or Human Body Systems Length: 1 semester Credit: .5

CR Anatomy and Physiology - S2 = for transfer students or Human Body Systems Length: 1 semester Credit: .5

Anatomy and Physiology 1A: Introduction * GRADES 9, 10, 11, 12 Elective Whether you plan on pursuing a career in health sciences or simply looking to gain an understanding of how the human body works, you'll first need to understand the relationship between anatomy and physiology. Learn how to read your body's story through understanding cell structure and their processes, and discover the functions and purposes of the skeletal, muscular, nervous, and cardiovascular systems, as well as diseases that affect those systems.

CR Art History S1 = for transfer students Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Electives S1 | SEM This one semester course explores the evolution of artistic expression from prehistoric cave paintings to modern art movements. Students examine how art reflects the cultural, political, religious, and social contexts of civilizations across time and geography. Major topics include classical antiquity, medieval and Renaissance developments, global contributions from Africa to the Pacific, and artistic revolutions of the 18th to 20th centuries. Through analysis of key works, artists, and movements, students learn to interpret symbolism, style, and technique.

CR Astronomy - S2 = Geology S2 Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Science S1 | S2 | YEAR Why do stars twinkle? Is it possible to fall into a black hole? Will the sun ever stop shining? Since the first glimpse of the night sky, humans have

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

CR Biology - S1 = Biology S1 & CR Biology - S2 = Biology S2 Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Science S1 | S2 | YEAR This compelling two-semester course engages students in the study of life and living organisms and examines biology and biochemistry in the real world. This is a year-long course that encompasses traditional concepts in biology and encourages exploration of new discoveries in this field of science. The components include biochemistry, cell biology, cell processes, heredity and reproduction, the evolution of life, taxonomy, human body systems, and ecology.

CR Mathematical Models with Applications S1 & S2 = CR Business Math S1= Business Math S1

CR Mathematical Models with Applications S2= Career Math S2 Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Mathematics S1 | S2 | YEAR Broadening and extending the mathematical knowledge and skills acquired in Algebra I, the primary purpose of this course is to use mathematics as a tool to model real world phenomena students may encounter daily, such as finance and exponential models. Engaging lessons cover financial topics, including growth, smart money, saving, and installment loan models. Students expand prior mathematical knowledge and develop new knowledge and techniques through real world application of useful mathematical concepts.

CR Career Planning & Development S1 & S2 = for transfer students Length: 1 semester credit: .5

GRADE 9, 10, 11, 12 Electives S1 | S2 | YEAR Introducing high school students to the working world, this year-long course provides the knowledge and insight necessary to compete in today's challenging job market. This relevant and timely course helps students investigate careers as they apply to personal interests and abilities, develop the skills and job search documents needed to enter the workforce, explore the rights of workers and traits of effective employees, and address the importance of professionalism and responsibility as careers change and evolve. This one semester course includes lessons in which students create a self-assessment profile, a cover letter, and a résumé that can be used in their educational or career portfolio.

**CR Chemistry - S1 = Chemistry S1 & CR Chemistry - S2 = Chemistry S2 Length: 1 semester
Credit: .5**

GRADE 9, 10, 11, 12 Science S1 | S2 | YEAR This rigorous full-year course engages students in the study of the composition, properties, changes, and interactions of matter. The course covers the basic concepts of chemistry and includes virtual laboratory experiments that encourage higher-order thinking, and applications. There is also a wet lab component for each of these labs. The components of this course include the composition and properties of matter, changes and interactions of matter, organic chemistry, and nuclear chemistry.

CR Civics (U.S. Government renamed for FHS) = Civics Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Social Studies SEM Civics is a semester-long class appropriate for students in high school. The course investigates events, concepts, and issues with a 360-degree view allowing multiple perspectives from various cultures and institutions to inform student learning. The course is divided into five units in which students will explore their civic roles, rights, and responsibilities; analyze the development of democracy in the United States; study the purposes and principles of the Constitution; investigate the role of power in decision-making; and discover ways to influence the government. The course provides opportunities to actively engage with the content through interactives, assignments, readings and short writings.

CR Earth Science - S1 & S2 = Earth Science S1 for transfer students Length: 1 sem Credit: .5

GRADE 9, 10, 11, 12 Science S1 | S2 | YEAR Students enrolled in this dynamic course explore the scope of Earth sciences, covering everything from basic structure and rock formation to the incredible and volatile forces that have shaped and changed our planet. As climate change and energy conservation become increasingly prevalent in the national discourse, it will be important for students to understand the concepts and causes of our changing Earth. Earth Science is a two semester course that provides a solid foundation for understanding the physical characteristics that make the planet Earth unique and examines how these characteristics differ among the planets of our solar system.

CR Economics = Economics Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Social Studies SEM Available as either a semester or a full year, this course invites students to broaden their understanding of how economic concepts apply to their everyday lives including microeconomic and macroeconomic theory and the characteristics of mixed market economies, the role of government in a free enterprise system and the global economy, and personal finance strategies. Throughout the course, students apply critical thinking skills while making practical economic choices. Students also master literacy skills through rigorous reading and writing activities. Students analyze data displays and write routinely and responsively in tasks and assignments that are based on scenarios, texts,

activities, and examples. In more extensive, process based writing lessons, students write full length essays in informative and argumentative formats.

CR English 9 - S1 & S2 = English 1 S1& S2 Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Language Arts S1 | S2 | YEAR This freshman-year English course invites students to explore diverse texts organized into thematic units. Students will engage in literary analysis and inferential evaluation of great texts both classic and contemporary. While critically reading fiction, poetry, drama, and literary nonfiction, students will master comprehension and literary-analysis strategies. Interwoven in the lessons across two semesters are activities that encourage students to strengthen their oral language skills and produce clear, coherent writing. Students will read a range of classic texts including Homer's *The Odyssey*, Shakespeare's *Romeo and Juliet*, and Richard Connell's "The Most Dangerous Game." They will also study short but complex texts, including influential speeches by Dr. Martin Luther King Jr., Franklin D. Roosevelt, and Ronald Reagan. Contemporary texts by Richard Preston, Julia Alvarez, and Maya Angelou round out the course.

CR English 10 S1 & S2 = English 2 S1 & S2 Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Language Arts S1 | S2 | YEAR This sophomore English course is organized thematically, allowing students to trace ideas across multiple fiction and nonfiction texts. As students engage with what they read, they use textual evidence to support arguments and to make inferences about the author's purpose and choice of language. In this course students speak, listen, read, and write—developing and applying a range of critical thinking and literary analysis skills they will need to tackle more complex texts in upper grades, college, and careers.

CR English 11 - S1 & S2 = American Literature, Science Fiction, Mysteries, Mythology S1 Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Language Arts S1 | S2 | YEAR This junior-year English course invites students to delve into American literature, from early American Indian voices through thoughtful contemporary works. Students will engage in literary analysis and inferential evaluation of great texts, the centerpieces of this course. While critically reading fiction, poetry, drama, and expository nonfiction, students will master comprehension and literary-analysis strategies. Interwoven in the lessons across two semesters are tasks that encourage students to strengthen their oral language skills and produce creative, coherent writing. The literature featured represents diverse voices and experiences. Students will read a range of short but complex texts, including works by Ralph Waldo Emerson, Michio Kaku, Emily Dickinson, Sojourner Truth, Nathaniel Hawthorne, Judith Ortiz Cofer, Mark Twain, Langston Hughes, Frederick Douglass, Martin Luther King, Jr., Naomi Shihab Nye, Amy Tan, and F. Scott Fitzgerald.

CR English 12 - S1 & S2 = British Literature, Science Fiction, Mysteries, Mythology Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Language Arts S1 | S2 | YEAR In this course, students will journey through British literature as they analyze foundational fiction and literary nonfiction works. As students read, they use textual evidence to support their analyses and analyze the impact of the author's choices. Students make written and oral arguments to support claims, and they build upon previous writing skills to develop a formal and mature writing style. Students also further develop their listening skills, integrating what they hear and what they read to form and communicate clear perspectives on a variety of issues.

CR Art History - S1 & S2 = Art History for transfer students Length: 1 semester Credit .5
(not offered 25/26)

This one semester course explores the evolution of artistic expression from prehistoric cave paintings to modern art movements. Students examine how art reflects the cultural, political, religious, and social contexts of civilizations across time and geography. Major topics include classical antiquity, medieval and Renaissance developments, global contributions from Africa to the Pacific, and artistic revolutions of the 18th to 20th centuries. Through analysis of key works, artists, and movements, students learn to interpret symbolism, style, and technique.

CR Environmental Science - S1 & S2 = Environmental Science S1 & S2 or Physical Science for transfer students Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Science S1 | S2 | YEAR Environmental Science is a captivating and rapidly expanding field, and this two-semester course offers compelling lessons that cover many aspects of the field: ecology, the biosphere, land, forests and soil, water, energy and resources, and societies and policy. Through unique activities and material, high school students connect scientific theory and concepts to current, real-world dilemmas, providing them with opportunities for mastery in each of the segments throughout the semester.

CR Personal Finance Length: 1 semester Credit: .5 (not offered 25/26)

GRADE 9, 10, 11, 12 Electives SEM This one semester introductory finance course teaches what it takes to understand the world of finance and make informed decisions about managing finances. Students learn more about economics and become more confident in setting and researching financial goals as they develop the core skills needed to be successful. In this one semester course, students learn how to open bank accounts, invest money, apply for loans, apply for insurance, explore careers, manage business finances, make decisions about major

purchases, and more. Students will be inspired by stories from finance professionals and individuals who have reached their financial goals.

CR Geology - S1 & S2 (CR Earth & Space Science in SPLP catalog, renamed for FHS) = Geology S1 & S2 Length: 1 semester Credit: .5

CR Earth and Space Science GRADE 9, 10, 11, 12 Science S1 | S2 | YEAR Students enrolled in this dynamic course explore the scope of Earth sciences, covering everything from basic structure and rock formation to the incredible and volatile forces that have shaped and changed our planet. As climate change and energy conservation become increasingly prevalent in the national discourse, it will be important for students to understand the concepts and causes of our changing Earth. Earth Science is a two-semester course that provides a solid foundation for understanding the physical characteristics that make the planet Earth unique and examines how these characteristics differ among the planets of our solar system.

CR Geometry S1 = Geometry_1 & CR Geometry S2 = Geometry _2 Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Mathematics S1 | S2 | YEAR This course formalizes what students learned about geometry in the middle grades with a focus on reasoning and making mathematical arguments. Mathematical reasoning is introduced with a study of triangle congruency, including exposure to formal proofs and geometric constructions. Then students extend what they have learned to other essential triangle concepts, including similarity, right-triangle trigonometry, and the laws of sines and cosines. Moving on to other shapes, students justify and derive various formulas for circumference, area, and volume, as well as cross-sections of solids and rotations of two- dimensional objects. Students then make important connections between geometry and algebra, including special triangles, slopes of parallel and perpendicular lines, and parabolas in the coordinate plane, before delving into an in-depth investigation of the geometry of circles. The course closes with a study of set theory and probability, as students apply theoretical and experimental probability to make decisions informed by data analysis.

CR Health SEM = Health Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Health S1 | S2 | YEAR This semester-long high-school health offering examines and analyzes various health topics. It places alcohol use, drug use, physical fitness, healthy relationships, disease prevention, relationships and mental health in the context of the importance of creating a healthy lifestyle. Throughout the course, students examine practices and plans they can implement in order to carry out a healthy lifestyle, and the consequences they can face if they do not follow safe practices. In addition, students conduct in- depth studies in order to create mentally and emotionally healthy relationships with peers and

family, as well as nutrition, sleeping, and physical fitness plans. Students also examine and analyze harassment and bullying laws.

CR Physical Science S1 & S2= for transfer students Length: 1 sem each Credit: .5

GRADE 9, 10, 11, 12 Science S1 | S2 | YEAR This full year course focuses on basic concepts in chemistry and physics and encourages exploration of new discoveries in the field of physical science. The course includes an overview of scientific principles and procedures and has students examine the chemical building blocks of our physical world and the composition of matter. Additionally, students explore the properties that affect motion, forces, and energy on Earth. Building on these concepts, the course covers the properties of electricity and magnetism and the effects of these phenomena. As students refine and expand their understanding of physical science, they will apply their knowledge to complete interactive virtual labs that require them to ask questions and create hypotheses. Hands on wet lab options are also available.

CR Physics - S1 & S2 = Physics S1 & S2 Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Science S1 | S2 | YEAR This full year course acquaints students with topics in classical and modern physics. The course emphasizes conceptual understanding of basic physics principles, including Newtonian mechanics, energy, thermodynamics, waves, electricity, magnetism, and nuclear and modern physics. Throughout the course, students solve mathematical problems, reason abstractly, and learn to think critically about the physical world. The course also includes interactive virtual labs and hands on lab options, in which students ask questions and create hypotheses.

CR Pre-Algebra - S1 & S2 = Pre-Algebra S1 & S2 Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Mathematics S1 | S2 | YEAR This full-year course is designed for high school students who have completed a middle school mathematics sequence but are not yet algebra-ready. This course reviews key algebra readiness skills from the middle grades and introduces basic Algebra I work with appropriate support. Students revisit concepts in numbers and operations, expressions and equations, ratios and proportions, and basic functions. By the end of the course, students are ready to begin a more formal high school Algebra I study.

CR Precalculus - S1 & S2 = transfer students or Pre-Calculus S1 & S2 Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Mathematics S1 | S2 | YEAR In this full year advanced math course, students explore the nature of functions with a focus on graphing a variety of function types. They also study complex numbers, matrices, systems, and linear programming. Students explore rational functions in depth and delve into right triangle and circular trigonometry. Students synthesize what they have learned to graph and solve trigonometric functions. They also study

vectors, conics and analytic geometry, statistics and probability, mathematical modeling, and sequences and series.

CR Psychology = Psychology Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Social Studies S1 In this course, you'll explore the broad scope of psychology from biology's impact on our psychological makeup to society's impact on who we become. You'll look closely at the changing and sometimes conflicting thoughts of researchers and scientists and how the field of psychology has changed. You'll also explore clinical psychology and how people find treatment.

CR United States Government = see CR Civics Length: 1 semester Credit: .5

CR US History S1 & S2 = US History S1 & S2 Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Social Studies S1 | S2 | YEAR This full-year high school course presents a cohesive and comprehensive overview of the history of the United States, surveying the major events and turning points of U.S. history as it moves from the Era of Exploration through modern times. As students examine each era of history, they will analyze primary sources and carefully research events to gain a clearer understanding of the factors that have shaped U.S. history. In early units, students will assess the foundations of U.S. democracy while examining crucial documents. In later units, students will examine the effects of territorial expansion, the Civil War, and the rise of industrialization. They will also assess the outcomes of economic trends and the connections between culture and government. As the course draws to a close, students will focus their studies on the causes of cultural and political change in the modern age. Throughout the course, students will learn the importance of cultural diversity while examining history from different perspectives.

CR World Geography - S1 & S2 = used for transfer students Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Social Studies S1 | S2 | YEAR full year high school level course that takes a thematic approach to the study of all aspects of the field of human geography, including: human environment interaction, cultural, political, and economic geography, and globalization and the interconnectivity of the world's people and places. In this course, students will develop and apply skills related to mapping, data analysis, and problem solving.

CR World History - S1 & S2 = World History S1 & S2 Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Social Studies S1 | S2 | YEAR This full-year course examines the major events and turning points of world history from ancient times to the present. Students investigate the development of classical civilizations in the Middle East, Africa, Europe, and Asia,

and they explore the economic, political, and social revolutions that have transformed human history. At the end of the course, students conduct a rigorous study of modern history, allowing them to draw connections between past events and contemporary issues. The use of recurring themes, such as social history, democratic government, and the relationship between history and the arts, allows students to draw connections between the past and the present, among cultures, and among multiple perspectives. Throughout the course, students use a variety of primary and secondary sources, including legal documents, essays, historical writings, and political cartoons to evaluate the reliability of historical evidence and to draw conclusions about historical events.

Original Credit Online Courses - in Alpha Order

These courses are scheduled by counselor & admin recommendation only

Prerequisite: For Original Credit - placement by counselor or administration.

Length: 1 semester **Credit:** .5 **Fee:** none

Physical Education I S1 & S2 - Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Electives S1 | S2 | YEAR This full year high school course introduces students to the principles and benefits of lifelong fitness through active participation in individual and group physical activities. Students explore the components of physical fitness, including flexibility, strength, endurance, and body composition, while developing motor skills and safe exercise habits. Lessons incorporate nutrition, stress management, time management, and goal setting to support personal wellness. Emphasis is placed on analyzing fitness data, applying exercise science concepts, and designing personalized fitness plans. Students also examine the impact of media, technology, and consumer choices on health behaviors. Leadership, sportsmanship, and effective communication are integrated throughout to encourage positive social interaction and personal growth. This course requires students to make videos of themselves exercising in almost every lesson; these videos require teacher scoring. Schools that want a course with less teacher grading should use Lifetime Fitness or Foundations of Personal Wellness.

Algebra 1 - S1 & S2 - Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Mathematics S1 | S2 | YEAR This course focuses on five critical areas: relationships between quantities and reasoning with equations, linear and exponential relationships, descriptive statistics, expressions and equations, and quadratic functions and modeling. This course builds on the foundation set in middle grades by deepening students'

understanding of linear and exponential functions and developing fluency in writing and solving one-variable equations and inequalities. Students will interpret, analyze, compare, and contrast functions that are represented numerically, tabularly, graphically, and algebraically. Quantitative reasoning is a common thread throughout the course as students use algebra to represent quantities and the relationships among those quantities in a variety of ways. Standards of mathematical practice and process are embedded throughout the course, as students make sense of problem situations, solve novel problems, reason abstractly, and think critically.

Algebra 2 - S1 & - S2 - Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Mathematics S1 | S2 | YEAR GRADE 9, 10, 11, 12 Mathematics S1 | S2 | YEAR This course focuses on functions, polynomials, periodic phenomena, and collecting and analyzing data. Students begin with a review of linear and quadratic functions, to solidify a foundation for learning these new functions. Students will make connections between verbal, numeric, algebraic, and graphical representations of functions and apply this knowledge as they create equations and inequalities that can be used to model and solve mathematical and real-world problems. As students refine and expand their algebraic skills, they will draw analogies between the operations and field properties of real numbers and those of complex numbers and algebraic expressions. Process standards are embedded throughout the course, as students solve novel problems, reason abstractly, and think critically

American Literature - S1 & S2 - (Same as English 3) Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Language Arts S1 | S2 | YEAR In American Literature, students explore various cultural periods of American literature. They examine numerous aspects of Romanticism, literature from multiple historical eras of the United States, and contributions made by significant American leaders. In addition to discovering multiple genres and investigating numerous periods of writing, students also explore the basics of literature, writing, and grammar.

AP U.S. History - S1 & S2 - Length: 1 semester each Credit: .5

GRADES 9, 10, 11, 12 Social Studies S1 | S2 | YEAR This course surveys the history of the United States from the settlement of the New World to modern times and prepares students for the AP United States History Exam. The course emphasizes themes such as national identity, economic transformation, immigration, politics, international relations, geography, and social and cultural change. Students learn to assess historical materials, weigh the evidence and interpretations presented in historical scholarship, and analyze and express historical understanding in writing.

Art History - S1 & S2 - Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Electives S1 | S2 | YEAR This one semester course explores the evolution of artistic expression from prehistoric cave paintings to modern art movements. Students examine how art reflects the cultural, political, religious, and social contexts of civilizations across time and geography. Major topics include classical antiquity, medieval and Renaissance developments, global contributions from Africa to the Pacific, and artistic revolutions of the 18th to 20th centuries. Through analysis of key works, artists, and movements, students learn to interpret symbolism, style, and technique.

Biology - S1 &S2 - Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Science S1 | S2 | YEAR This compelling two-semester course engages students in the study of life and living organisms and examines biology and biochemistry in the real world. This is a year-long course that encompasses traditional concepts in biology and encourages exploration of new discoveries in this field of science. The components include biochemistry, cell biology, cell processes, heredity and reproduction, the evolution of life, taxonomy, human body systems, and ecology.

Mathematical Models with Applications SEM - Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Mathematics SEM Broadening and extending the mathematical knowledge and skills acquired in Algebra I, the primary purpose of this course is to use mathematics as a tool to model real world phenomena students may encounter daily, such as finance and exponential models. Engaging lessons cover financial topics, including growth, smart money, saving, and installment loan models. Students expand prior mathematical knowledge and develop new knowledge and techniques through real world application of useful mathematical concepts.

Career Explorations - SEM - Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Electives SEM This course prepares high school students to make informed decisions about their future academic and occupational goals. Through direct instruction, interactive skill demonstrations, and practice assignments, students learn how to assess their own skills and interests, explore industry clusters and pathways, and develop plans for career and academic development.

Career Planning & Development S1 & S2 - Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Electives S1 | S2 | YEAR Introducing high school students to the working world, this year-long course provides the knowledge and insight necessary to compete in today's challenging job market. This relevant and timely course helps students investigate careers as they apply to personal interests and abilities, develop the skills and job search

documents needed to enter the workforce, explore the rights of workers and traits of effective employees, and address the importance of professionalism and responsibility as careers change and evolve. This one semester course includes lessons in which students create a self-assessment profile, a cover letter, and a résumé that can be used in their educational or career portfolio.

Chemistry - S1 & S2 - Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Science S1 | S2 | YEAR This rigorous full-year course engages students in the study of the composition, properties, changes, and interactions of matter. The course covers the basic concepts of chemistry and includes virtual laboratory experiments that encourage higher-order thinking, and applications. There is also a wet lab component for each of these labs. The components of this course include the composition and properties of matter, changes and interactions of matter, organic chemistry, and nuclear chemistry.

Earth Science S1 & S2- Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Science S1 | S2 | YEAR This full-year course introduces students to the study of Earth and its place in the universe. The course leads students toward a clearer understanding of geology, oceanography, meteorology, and astronomy. As students refine and expand their understanding of Earth science, they will apply their knowledge in investigations that require them to ask questions and explore the world around them. Throughout the course, students will also solve problems, reason abstractly, and learn to think critically.

Economics SEM- Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Social Studies SEM This semester-long course invites students to broaden their understanding of how economic concepts apply to their everyday lives—including microeconomic and macroeconomic theory and the characteristics of mixed-market economies, the role of government in a free enterprise system and the global economy, and personal finance strategies. Throughout the course, students apply critical thinking skills while making practical economic choices. Students also master literacy skills through rigorous reading and writing activities. Students analyze data and write routinely and responsively in tasks and assignments that are based on scenarios, texts, activities, and examples. In more extensive, process-based writing lessons, students write full-length essays in informative and argumentative formats.

English 1 S1 & S2 Length: 1 semester each Credit: .5 each

GRADE 9, 10, 11, 12 Language Arts S1 | S2 | YEAR This freshman-year English course invites students to explore diverse texts organized into thematic units. Students will engage in literary

analysis and inferential evaluation of great texts both classic and contemporary. While critically reading fiction, poetry, drama, and literary nonfiction, students will master comprehension and literary-analysis strategies. Interwoven in the lessons across two semesters are activities that encourage students to strengthen their oral language skills and produce clear, coherent writing. Students will read a range of classic texts including Homer's *The Odyssey*, Shakespeare's *Romeo and Juliet*, and Richard Connell's "The Most Dangerous Game." They will also study short but complex texts, including influential speeches by Dr. Martin Luther King Jr., Franklin D. Roosevelt, and Ronald Reagan. Contemporary texts by Richard Preston, Julia Alvarez, and Maya Angelou round out the course.

English 2 S1 & S2 Length: 1 semester each Credit: .5 each

GRADE 9, 10, 11, 12 Language Arts S1 | S2 | YEAR This sophomore English course is organized thematically, allowing students to trace ideas across multiple fiction and nonfiction texts. As students engage with what they read, they use textual evidence to support arguments and to make inferences about the author's purpose and choice of language. In this course students speak, listen, read, and write—developing and applying a range of critical thinking and literary analysis skills they will need to tackle more complex texts in upper grades, college, and careers.

English 3 S1 & S2 = American Literature Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Language Arts S1 | S2 | YEAR In this course, students will journey through the history of American literature, from the early writings of Indigenous peoples and European settlers to modern texts. As students read, they are encouraged to use textual evidence to support their analyses and analyze the impact of the author's choices. Students make written and oral arguments to support claims, and they build upon previous writing skills to develop a formal and mature writing style. Students also develop their listening skills, integrating what they hear and what they read to form and communicate clear perspectives on a variety of issues.

English 4 S1 & S2 = British Literature Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Language Arts S1 | S2 | YEAR In this course, students will journey through British literature as they analyze foundational fiction and literary nonfiction works. As students read, they use textual evidence to support their analyses and analyze the impact of the author's choices. Students make written and oral arguments to support claims, and they build upon previous writing skills to develop a formal and mature writing style. Students also further develop their listening skills, integrating what they hear and what they read to form and communicate clear perspectives on a variety of issues.

Environmental Science - S1 & S2 Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Science S1 | S2 | YEAR Environmental science is a captivating and rapidly expanding field, and this two-semester course offers compelling lessons that cover many aspects of the field: ecology, the biosphere, land, forests and soil, water, energy and resources, and societies and policy. Through unique activities and material, high school students connect scientific theory and concepts to current, real-world dilemmas, providing them with opportunities for mastery in each of the segments throughout the semester.

Financial Math Length: 1 year Credit: 1

GRADE 9, 10, 11, 12 Electives YEAR This full year course for high school students Extends prior math concepts to financial and business contexts. Students will solve real world problems, analyze data, and develop financial literacy and business modeling skills. They will learn about budgets, income, taxes, insurance, and investments, as well as how these may affect personal and business decisions. Students will also work with scenarios dealing with credit, retirement planning, and home and automobile ownership or leasing. Students will model and analyze scenarios related to these real world financial concepts using ratios, proportions, and functions. They will make decisions related to these financial scenarios and use mathematics to justify their decisions. Students will apply mathematical practices and use technology as they complete tasks that require them to think critically, solve problems, and communicate their reasoning.

Geometry S1 & S2 Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Mathematics S1 | S2 | YEAR This course formalizes what students learned about geometry in the middle grades with a focus on reasoning and making mathematical arguments. Mathematical reasoning is introduced with a study of triangle congruency, including exposure to formal proofs and geometric constructions. Then students extend what they have learned to other essential triangle concepts, including similarity, right-triangle trigonometry, and the laws of sines and cosines. Moving on to other shapes, students justify and derive various formulas for circumference, area, and volume, as well as cross-sections of solids and rotations of two-dimensional objects. Students then make important connections between geometry and algebra, including special triangles, slopes of parallel and perpendicular lines, and parabolas in the coordinate plane, before delving into an in-depth investigation of the geometry of circles. The course closes with a study of set theory and probability, as students apply theoretical and experimental probability to make decisions informed by data analysis.

Health - SEM Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Health - graduation requirement SEM This semester-long high-school health offering examines and analyzes various health topics. It places alcohol use, drug use,

physical fitness, healthy relationships, disease prevention, relationships and mental health in the context of the importance of creating a healthy lifestyle. Throughout the course, students examine practices and plans they can implement in order to carry out a healthy lifestyle, and the consequences they can face if they do not follow safe practices. In addition, students conduct in-depth studies in order to create mentally and emotionally healthy relationships with peers and family, as well as nutrition, sleeping, and physical fitness plans. Students also examine and analyze harassment and bullying laws.

Nutrition & Wellness - SEM Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Electives S1 | S2 | SEM This course takes students through a comprehensive study of nutritional principles and guidelines. Students learn about worldwide views of nutrition, essential nutrient requirements, physiological processes, food labeling, weight management, healthy food choices, fitness, diet related diseases and disorders, food handling, healthy cooking, nutrition for different populations, and more. Students gain important knowledge and skills to aid them in attaining and maintaining a healthy and nutritious lifestyle.

Introduction to Business SEM Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Electives SEM In this two semester introductory course, students learn the principles of business using real world examples learning what it takes to plan and launch a product or service in today's fast paced business environment. This course covers an introduction to economics, costs and profit, and different business types. Students are introduced to techniques for managing money, personally and as a business, and taxes and credit; the basics of financing a business; how a business relates to society both locally and globally; how to identify a business opportunity; and techniques for planning, executing, and marketing a business to respond to that opportunity.

Engineering & Design = Introduction to Engineering - SEM Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Electives S1 | S2 | YEAR This semester long course focuses on building real world problem solving and critical thinking skills as students learn how to innovate and design new products and improve existing products. Students are introduced to the engineering design process to build new products and to the reverse engineering process, which enables engineers to adjust any existing product. Students identify how engineering and design have a direct impact on the sustainability of our environment and the greening of our economy. Finally, students incorporate the engineering design process, environmental life cycle, and green engineering principles to create a decision matrix to learn how to solve environmental issues.

Music Appreciation S1 & S2 Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Electives S1 | S2 | YEAR Music is part of everyday lives and reflects the spirit of our human condition. To know and understand music, we distinguish and identify cultures on local and global levels. This course will provide students with an aesthetic and historical perspective of music, covering a variety of styles and developments from the Middle Ages through the Twentieth First Century. Students will acquire basic knowledge and listening skills, making future music experiences more informed and satisfying.

Physical Science S1 & S2 Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Science S1 | S2 | YEAR This full year course focuses on basic concepts in chemistry and physics and encourages exploration of new discoveries in the field of physical science. The course includes an overview of scientific principles and procedures and has students examine the chemical building blocks of our physical world and the composition of matter. Additionally, students explore the properties that affect motion, forces, and energy on Earth. Building on these concepts, the course covers the properties of electricity and magnetism and the effects of these phenomena. As students refine and expand their understanding of physical science, they will apply their knowledge to complete interactive virtual labs that require them to ask questions and create hypotheses. Hands on wet lab options are also available.

Physics S1 & S2 Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Science S1 | S2 | YEAR This full year course acquaints students with topics in classical and modern physics. The course emphasizes conceptual understanding of basic physics principles, including Newtonian mechanics, energy, thermodynamics, waves, electricity, magnetism, and nuclear and modern physics. Throughout the course, students solve mathematical problems, reason abstractly, and learn to think critically about the physical world. The course also includes interactive virtual labs and hands on lab options, in which students ask questions and create hypotheses.

Pre-Algebra S1 & S2 Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Mathematics SEM This full-year course is designed for high school students who have completed a middle school mathematics sequence but are not yet algebra-ready. This course reviews key algebra readiness skills from the middle grades and introduces basic Algebra I work with appropriate support. Students revisit concepts in numbers and operations, expressions and equations, ratios and proportions, and basic functions. By the end of the course, students are ready to begin a more formal high school Algebra I study.

Pre-Calculus S1 & S2 Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Mathematics S1 | S2 | YEAR In this full year advanced math course, students explore the nature of functions with a focus on graphing a variety of function types.

They also study complex numbers, matrices, systems, and linear programming. Students explore rational functions in depth and delve into right triangle and circular trigonometry. Students synthesize what they have learned to graph and solve trigonometric functions. They also study vectors, conics and analytic geometry, statistics and probability, mathematical modeling, and sequences and series.

Psychology SEM Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Electives SEM In this course, you'll explore the broad scope of psychology from biology's impact on our psychological makeup to society's impact on who we become. You'll look closely at the changing and sometimes conflicting thoughts of researchers and scientists and how the field of psychology has changed. You'll also explore clinical psychology and how people find treatment.

Sociology - SEM Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Electives SEM Human beings are complex creatures, and when we interact and begin to form relationships and societies, things become even more complicated. Are we more likely to act differently in a group than we will when we're alone? How do we learn how to be "human"? Examine answers to these questions and many more as you explore culture, group behavior, and societal institutions and how they affect human behavior.

Civics and Government Length: 1 semester Credit: .5

GRADE 9, 10, 11, 12 Social Studies S1 Civics is a semester-long class appropriate for students in high school. The course investigates events, concepts, and issues with a 360-degree view allowing multiple perspectives from various cultures and institutions to inform student learning. The course is divided into five units in which students will explore their civic roles, rights, and responsibilities; analyze the development of democracy in the United States; study the purposes and principles of the Constitution; investigate the role of power in decision-making; and discover ways to influence the government. The course provides opportunities to actively engage with the content through interactives, assignments, readings and short writings.

U.S. History S1 & S2 Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Social Studies S1 | S2 | YEAR This full-year high school course presents a cohesive and comprehensive overview of the history of the United States, surveying the major events and turning points of U.S. history as it moves from the Era of Exploration through modern times. As students examine each era of history, they will analyze primary sources and carefully research events to gain a clearer understanding of the factors that have shaped U.S. history. In early units, students will assess the foundations of U.S. democracy while examining crucial documents. In later units, students will examine the effects of territorial expansion, the

Civil War, and the rise of industrialization. They will also assess the outcomes of economic trends and the connections between culture and government. As the course draws to a close, students will focus their studies on the causes of cultural and political change in the modern age. Throughout the course, students will learn the importance of cultural diversity while examining history from different perspectives.

Human Geography - S1 & S2 Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Social Studies S1 | S2 | YEAR full year high school level course that takes a thematic approach to the study of all aspects of the field of human geography, including: human environment interaction, cultural, political, and economic geography, and globalization and the interconnectivity of the world's people and places. In this course, students will develop and apply skills related to mapping, data analysis, and problem solving.

World History - S1 & S2 Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 Social Studies S1 | S2 | YEAR This full-year course examines the major events and turning points of world history from ancient times to the present. Students investigate the development of classical civilizations in the Middle East, Africa, Europe, and Asia, and they explore the economic, political, and social revolutions that have transformed human history. At the end of the course, students conduct a rigorous study of modern history, allowing them to draw connections between past events and contemporary issues. The use of recurring themes, such as social history, democratic government, and the relationship between history and the arts, allows students to draw connections between the past and the present, among cultures, and among multiple perspectives. Throughout the course, students use a variety of primary and secondary sources, including legal documents, essays, historical writings, and political cartoons to evaluate the reliability of historical evidence and to draw conclusions about historical events.

Mythology & Folklore - SEM Length: 1 semester each Credit: .5

GRADE 9, 10, 11, 12 E SEM Mighty heroes. Angry gods and goddesses. Cunning animals. Since the first people gathered around fires, mythology and folklore has been used as a way to make sense of humankind and our world. Beginning with an overview of mythology and different kinds of folklore, students will journey with ancient heroes as they slay dragons and outwit gods, follow fearless warrior women into battle, and watch as clever monsters outwit those stronger than themselves. They will explore the universality and social significance of myths and folklore, and see how these are still used to shape society today.

Falcon High School Counselors by Alpha Split & Administration

Please reach out to your students' counselor with questions regarding this document.

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