

509 J Online High School Academic Planning Guide



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Future Center

The Future Center team is here to support MHS/509J Online students in planning and achieving personal post-secondary goals for their college or career objectives. The program has two primary purposes: to serve as a warehouse for college and career information and provide one-on-one mentoring services. The Future Center houses resources for financial aid assistance, ACT and SAT testing, career exploration, scholarship opportunities, apprenticeship options, employment preparations and more

The mentor component involves students being assigned a volunteer mentor during their junior year to begin the process of exploring their aspirations for the future. The mentor will assist the student in formulating a personalized action plan to achieve their vision by meeting with them multiple times during the second semester of their junior year and continue to provide resources and support throughout their senior year!

The Future Center hours are 9:30 - 4:00 pm every school day. Please feel free to stop by or contact us with questions at any time.

The Future Center Coordinator is Samantha Loza. sloza@509j.net.

Madras Diploma Requirements

The state of Oregon and Jefferson County School District require students to complete 24 credits in order to graduate. Regular attendance also continues to be a requirement. These requirements reflect the minimum program that students can complete and still earn a high school diploma. For the majority of students, particularly those who are planning post-high school education, pursuit of a challenging academic program is the most important consideration, and additional classes in core subject areas are necessary.

Students planning to enter a four-year Oregon University System school will need to meet the state's admission requirements listed in this planning guide. Students planning to attend out-of-state and/or private colleges and universities should communicate with admission counselors at individual universities to plan a high school course of study as it relates to specific admission requirements.

Minimum Graduation Requirements:

Typical Curriculum Plan

Part I:

Language Arts (4 credits)	1 credit required at Grade 9	English 1 / Enriched English 1
	1 credit required at Grade 10	English 2 / Enriched English 2
	1 credit required at Grade 11	English 3 / College Comp. 1
	1 credit required at Grade 12	English 4 / College Comp. 2
Mathematics (3 credits)	1 credit required at Grade 9	Algebra 1 / Geometry/Intro to Data Sci
	2 credits required at Grade 10-12	Geom/data / Algebra 2 / Trigonometry / Calculus / Financial Algebra
Science (3 credits)	1 credit required at Grade 9	Integrated Science
	1 credit required at Grade 10	Biology, Chemistry
	1 credit required at Grade 11	Physics / Environmental Science 1 & 2 / AP Chemistry/ AP Bio
Social Studies (3 credits)	0.5 credit required at Grade 9	Global Studies
	1 credit required at Grade 10	World History
	1 credit required at Grade 11	U.S. History
	0.5 credit required at Grade 12	Government
Health Education (1 credit)	0.5 credit required at Grade 10-11	Health 1
	0.5 credit required at Grade 11-12	Health 2
Physical Education (1 credit)	0.5 credit required at Grade 9 0.5 credit required at Grade 10-12	PE 1/Strength & Conditioning / Sports & Games 1 & 2/ PE Makeup

Fine Arts / Applied Arts
/ Second Language (3
credits)

Students must choose 3 credits in any combination in any of the following areas: Band, Choir, Art, Spanish, and/or CTE (Agriculture, Business, Construction, Graphics, Manufacturing, Natural Resources, Early Childhood Ed.), Native Language.

Electives (6 credits)

All students, with the assistance of their guardian(s) and school counselor, are allowed to select a combination of elective courses which best meet the needs of their post-high school graduation plans.

Elective credits in math, science, and world language are highly recommended for college-bound students.

Part II:

Essential Skills Requirement: Passing scores on State Standardized Assessment for Reading, Writing, and Math or other approved option.

Part III:

Big 3 Requirements: 8 hours of Volunteering, Junior Next Steps Survey, and Senior Celebration.

JCS D Diploma Requirements	
Subject	Credits Required
Language Arts	4
Mathematics (Algebra 1 or above)	3
Science	3
Social Studies	3
Physical Education	1
Health Education	1
Fine Arts: World Language / Art / Music / CTE	3
Electives	6
Total Credits	24
Essential Skills	
Read & Comprehend a Variety of Text	SBAC / ACT / SAT / WorkKeys / Work Samples

Write Clearly & Accurately	SBAC / ACT / SAT / Work Samples
Apply Mathematics in a Variety of Settings	SBAC / ACT / SAT / WorkKeys / Work Samples
Other Requirements	
Big 3 Requirements: 8 hours of volunteering, Junior Next Steps Survey, and Senior Celebration	

LANGUAGE ARTS: 4 CREDITS REQUIRED

LA - ENGLISH LANGUAGE ARTS 9 - 25/24 lessons

1.0 Credit: Required

This freshman-year English course engages students 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 quarters 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.

LA - ENGLISH LANGUAGE ARTS 10 - 30/28 lessons

1.0 Credit: Required

Focused on application, this sophomore English course reinforces literary analysis and twenty-first century skills with superb pieces of literature and literary nonfiction, application e-resources, and educational interactives. Each thematic unit focuses on specific literary analysis skills and allows students to apply them to a range of genres and text structures. As these units meld modeling and application, they also expand on training in media literacy, twenty-first century career skills, and the essentials of grammar and vocabulary. Under the guidance of the Writing software, students also compose descriptive, persuasive, expository, literary analysis, research, narrative, and compare-contrast essays.

LA - ENGLISH LANGUAGE ARTS 11 - 20/24 lessons

1.0 Credit: Required

This junior-year English course invites students to delve into American literature from early American Indian voices through contemporary works. Students engage in literary analysis and inferential evaluation of great texts as the centerpieces of this course. While critically reading fiction, poetry, drama, and expository nonfiction, students 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. Students read a range of short but complex texts, including works by Ralph Waldo Emerson, Emily Dickinson, Herman Melville, Nathaniel Hawthorne, Paul Laurence Dunbar, Martin Luther King, Jr., F. Scott Fitzgerald, Sandra Cisneros, Amy Tan, and Dave Eggers.

LA - ENGLISH LANGUAGE ARTS 12 - 29/27 lessons

1.0 Credit: Required

This senior-level English course offers fascinating insight into British literary traditions spanning from Anglo-Saxon writing to the modern period. With interactive introductions and historical contexts, this full-year course connects philosophical, political, religious, ethical, and social influences of each time period to the works of many notable authors, including Chaucer, William Shakespeare, Queen Elizabeth I, Elizabeth Barrett Browning, and Virginia Woolf. Adding an extra dimension to the British literary experience, this course also exposes students to world literature, including works from India, Europe, China, and Spain.

Math - 3.0 Credits REQUIRED

EL - PRE-ALGEBRA - 40/24 lessons

1.0 Credit:

This 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.

MA - ALGEBRA I - 38/38 lessons

1.0 Credit: REQUIRED

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.

MA - GEOMETRY - 49 lessons

.50 Credit: REQUIRED

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 congruence, 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.

MA - Geometry, Data Science and Statistics - 32 lessons

.50 Credit: REQUIRED

This course is a semester-long study of data science. In this course, students find patterns in data and make meaningful, data driven conclusions and predictions.

MA - ALGEBRA II - 29/29 lessons

1.0 Credit: 3RD CREDIT OPTION

This course focuses on functions, polynomials, periodic phenomena, and collecting and analyzing data. The course begins with a review of linear and quadratic functions to solidify a foundation for learning these new functions. Students 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 among the operations and field properties of real numbers and those of complex numbers and algebraic expressions. Mathematical practices and habits of mind are embedded throughout the course, as students solve novel problems, reason abstractly, and think critically.

MA - TRIGONOMETRY - 37 lessons**.50 Credit: 3RD CREDIT OPTION**

In this one-semester course, students use their geometry and algebra skills to begin their study of trigonometry. Students will be required to express understanding using qualitative, quantitative, algebraic, and graphing skills. This course begins with a quick overview of right-triangle relationships before introducing trigonometric functions and their applications. Students explore angles and radian measures, circular trigonometry, and the unit circle. Students extend their understanding to trigonometric graphs, including the effects of translations and the inverses of trigonometric functions. This leads to the laws of sines and cosines, followed by an in-depth exploration of trigonometric identities and applications. This course ends with an introduction to the polar coordinate system, complex numbers, and DeMoivre's theorem.

MA - PRECALCULUS - 22/29 lessons**1.0 Credit: 3RD CREDIT OPTION**

With an emphasis on function families and their representations, Precalculus is a thoughtful introduction to advanced studies leading to calculus. The course briefly reviews linear equations, inequalities, and systems and moves purposefully into the study of functions. Students then discover the nature of graphs and deepen their understanding of polynomial, rational, exponential, and logarithmic functions. Scaffolding rigorous content with clear instruction, the course leads students through an advanced study of trigonometric functions, matrices, and vectors. The course concludes with a short study of probability and statistics.

MA - MATHEMATICAL MODELS WITH APPLICATIONS - 34/33 lessons**1.0 Credit: 3RD CREDIT OPTION**

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. Prior mathematical knowledge is expanded and new knowledge and techniques are developed through real-world application of useful mathematical concepts.

MA - FINANCIAL MATH - 29/32 lessons**1.0 Credit: 3RD CREDIT OPTION**

Connecting practical mathematical concepts to personal and business settings, this course offers informative and highly useful lessons that challenge students to gain a deeper understanding of financial math. Relevant, project based learning activities cover stimulating topics such as personal financial planning, budgeting and wise spending, banking, paying taxes, the importance of insurance, long term investing, buying a house, consumer loans, economic principles, traveling abroad, starting a business, and analyzing business data. Offered as a two-semester course for high school students, this course encourages mastery of math skill sets, including percentages, proportions, data analysis, linear systems, and exponential functions.

Science - 3.0 Credits Required

SC - PHYSICAL SCIENCE - 34/29 lessons

1.0 Credit: REQUIRED

This 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.

SC - BIOLOGY - 29/29 lessons

1.0 Credit: REQUIRED

This course engages students in the study of life and living organisms and examines biology and biochemistry in the real world. This is a yearlong 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. This course includes both hands-on wet labs and virtual lab options.

SC - CHEMISTRY - 32/28 lessons

1.0 Credit: 3RD CREDIT OPTION

This rigorous course engages students in the study of the composition, properties, changes, and interactions of matter. The course covers the basic Science 11 concepts of chemistry and includes eighteen virtual laboratory experiments that encourage higher-order thinking applications, with wet lab options if preferred. The components of this course include chemistry and its methods, the composition and properties of matter, changes and interactions of matter, factors affecting the interactions of matter, electrochemistry, organic chemistry, biochemistry, nuclear chemistry, mathematical applications, and applications of chemistry in the real world.

SC - ENVIRONMENTAL SCIENCE - 32/32 lessons**1.0 Credits: 3RD CREDIT OPTION**

Environmental science is a captivating and rapidly expanding field, and this 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.

SC - PHYSICS - 25/21 lessons**1.0 Credits: 3RD CREDIT OPTION**

This course acquaints students with topics in classical and modern physics. The course emphasizes conceptual understanding of basic physics principles, including Newtonian mechanics, energy, thermodynamics,

Social Studies: 3 Credits Required

SS - HUMAN GEOGRAPHY - 16 lessons

.50Credit REQUIRED

Examining current global issues that impact our world today, this course takes a thematic approach to understanding the development of human systems, human understanding of the world, and human social organization. Divided into two semesters, this high school course will challenge students to develop geographic skills, including learning to interpret maps, analyze data, and compare theories. Offering interactive content that will grow students' understanding of the development of modern civilization and human systems—from the agricultural revolution to the technological revolution—this course encourages students to analyze economic trends as well as compare global markets and urban environments.

SS - SURVEY OF U.S. HISTORY - 23/23 lessons

1.0 Credit REQUIRED

This 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.

SS - SURVEY OF WORLD HISTORY - 32/26 lessons

1.0 Credit REQUIRED

This 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.

GV - U.S. GOVERNMENT - 38 lessons

.50 Credit: REQUIRED

This course provides students with a practical understanding of the principles and procedures of government. The course begins by establishing the origins and founding principles of American government. Social Studies 15 After a rigorous review of the Constitution and its amendments, students investigate the development and extension of civil rights and liberties. Lessons also introduce influential Supreme Court decisions to demonstrate the impact and importance of constitutional rights. The course builds on this foundation by guiding students through the function of government today and the role of citizens in the civic process and culminates in an examination of public policy and the roles of citizens and organizations in promoting policy changes. Throughout the course, students examine primary and secondary sources, including political cartoons, essays, and judicial opinions. Students also sharpen their writing skills in shorter tasks and assignments and practice outlining and drafting skills by writing full informative and argumentative essays.

EI - ECONOMICS - 30 lessons

.50 Credit:

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.

PE 1.0 Credit: REQUIRED

PE - LIFETIME FITNESS - 19 lessons

.50 Credit: REQUIRED

Exploring fitness topics such as safe exercise and injury prevention, nutrition and weight management, consumer product evaluation, and stress management, this course equips high school students with the skills they need to achieve lifetime fitness. Available as either a semester or year-long course, Lifetime Fitness encourages students to assess individual fitness levels according to the five components of physical fitness: cardiovascular health, muscular strength, muscular endurance, flexibility, and body composition. Personal fitness assessments encourage students to design a fitness program to meet their individual fitness goals.

PE - FOUNDATIONS OF PERSONAL WELLNESS - 24 lessons

.50 Credit: REQUIRED

Exploring a combination of health and fitness concepts, this comprehensive and cohesive course explores all aspects of wellness. Offered as a two-semester course designed for high school students, coursework uses pedagogical planning to ensure that students explore fitness and physical health and encourages students to learn about the nature of social interactions and how to plan a healthy lifestyle. NOTE: This course contains content from both Healthy Living and Lifetime Fitness; to avoid duplication, students should take either those one-semester courses or this full-year course.

HEALTH 1.0 Credit REQUIRED

HE - CONTEMPORARY HEALTH - 24 lessons

.50 Credit: REQUIRED

Available as either a semester or year-long course, this 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. This course covers issues of sex and gender identity, same-sex relationships, contraception, and other sensitive topics. For a more conservative approach to health education, the Healthy Living course is also available in the Health.

HE - HEALTHY LIVING - 27 lessons

.50 Credit: REQUIRED

Encouraging students to make responsible, respectful, informed, and capable decisions about topics that affect the well-being of themselves and others, this high school course provides students with comprehensive information they can use to develop healthy attitudes and behavior patterns.

QUARTER 1 ELECTIVES:

EL - CAREER PLANNING & DEVELOPMENT - 26 lessons

Grades: 10-12

.50 Credit

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.

FA-CTE - COMPUTER APPLICATIONS - 32 lessons

Grades: 9-12

.50 Credit

This full-year course introduces students to the features and functionality of the most widely used productivity software in the world: Microsoft® Office®. Through video instruction, interactive skill demonstrations, and numerous hands-on practice assignments, students learn to develop, edit and share Office 2019 documents for both personal and professional use. By the end of this course, students will have developed basic proficiency in the most common tools and features of the Microsoft Office suite of applications: Word®, Excel®, PowerPoint®, and Outlook®. Required Materials: *f* Students must have access to MS Office 2019 or Office 365 *f* Presentation software (e.g., MS PowerPoint)

EL - FOOD PRODUCTS & PROCESSING SYSTEMS - 27 lessons

Grades: 9-12

.50 Credit

Agriculture, food, and natural resources are central to human survival and civilization. The development, use, and stewardship of natural resources to create food products have a long and ever-changing timeline. This semester-length high school course that explores the history and evolution of food products, along with the processing methods that have arisen to feed an ever growing world population. Students study specifics in a wide spectrum of food product topics, from early methods. Career and Technical Education 31 of preservation to technological advancements in packaging, regulations in labeling, and marketing trends. Students learn industry terminology in each area of the overall system, from “farm to fork” to vertical integration to smart packaging.

FA - INTRODUCTION TO AGRICULTURE, FOOD, AND NATURAL RESOURCES - 29 lessons

Grades: 10-12

.50 Credit

This course introduces students to the basic scientific principles of agriculture and natural resources. Students recognize and research plant systems, animal systems, government policy, “green” technologies, agribusiness principles, and sustainability systems. In this course, students apply understanding of ecosystems and systems thinking to the management of natural resources to maximize the health and productivity of the environment, agriculture, and communities. Students also analyze community practice or policy development related to sustainability in agriculture, food, and natural resources. Finally, students apply adaptive ecosystem management to a common pool resource problem in a manner that addresses ecological, socioeconomic, and institutional contexts.

FA - INTRODUCTION TO BUSINESS - 25 lessons

Grades: 9-12

.50 Credit

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.

FA-CTE - INTRODUCTION TO INFORMATION TECHNOLOGY - 31 lessons

Grades: 9-12

.50 Credit

This course introduces students to the essential technical and professional skills required in the field of Information technology (IT). Through hands-on projects and written assignments, students gain an understanding of the operation of computers, computer networks, Internet fundamentals, programming, and computer support. Students also learn about the social impact of technological change and the ethical issues related to technology. Throughout the course, instructional activities emphasize safety, professionalism, accountability, and efficiency for workers within the field of IT.

FA-CTE - INTRODUCTION TO LAW, PUBLIC SAFETY, CORRECTIONS, AND SECURITY - 27 lessons

Grades: 10-12

.50 Credit

In this course, students learn about the many careers that exist within the fields of law, law enforcement, public safety, corrections, and security. In addition to learning about the training and educational requirements for these careers, students explore the history of these fields and how they developed to their current state. Students also learn how these careers are affected by and affect local, state, and federal laws. Finally, students examine the relationships between professionals in these fields and how collaborations between professionals in these careers help to create a safer, more stable society.

FA-CTE - PERSONAL FINANCE - 18 lessons**Grades: 9-12****.50 Credit**

This 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.

FA-CTE - POWER, STRUCTURAL, AND TECHNICAL SYSTEMS: A and/or B - 40/20 lessons**Grades: 11-12****.50 Credit**

This semester-length high school course provides students with an understanding of the field of agriculture. Career and Technical Education 39 power and introduces them to concepts associated with producing the food and fiber required to meet today's and tomorrow's needs. Students are given the opportunity to explore agriculture machinery, as well as structures and technological concepts. They also learn about the historical changes in agriculture and how agriculture has changed to meet the needs of the future world population. Students are introduced to machinery, structures, biotechnology, and ethical and professional standards applicable to agriculture power.

EL - STRATEGIES FOR ACADEMIC SUCCESS - 25 lessons

Grades: 9-12

.50 Credit

Offering a comprehensive analysis of different types of motivation, study habits, and learning styles, this one semester course encourages high school and middle school students to take control of their learning by exploring varying strategies for success. Providing engaging lessons that will help students identify what works best for them individually, this one-semester course covers important study skills, such as strategies for taking high-quality notes, memorization techniques, test-taking strategies, benefits of visual aids, and reading techniques.

QUARTER 2 ELECTIVES:

EL - AGRIBUSINESS SYSTEMS - 25 lessons

Grades: 11-12

.50 Credit

Agribusiness Systems is a semester-length high school course that introduces the business, management, marketing, and financial skills needed to successfully produce food, fiber, and fuel for domestic and global markets. Students learn about the components of the agribusiness system and how they interact to deliver food to our tables. They also learn about the key elements of a successful agribusiness enterprise: economics, financial management, marketing and sales, and government policies and regulations.

FA - INTRODUCTION TO ART - 21 lessons

Grades: 9-12

.50 Credit

Covering art appreciation and the beginning of art history, this course encourages students to gain an understanding and appreciation of art in their everyday lives. Presented in an engaging format, Intro to Art provides an overview of many introductory themes: the definition of art, the cultural purpose of art, visual elements of art, terminology and principles of design, and two- and three-dimensional media and techniques. Tracing the history of art, high school students enrolled in the course also explore the following time periods and places: prehistoric art, art in ancient civilizations, and world art before 1400.

FA-CTE - INTRODUCTION TO CAREERS IN ARCHITECTURE AND CONSTRUCTION - 28 lessons

Grades: 11-12

.50 Credit

The goal of this semester-long high school course is to provide students with an overview of careers in architecture and construction in order to assist with an informed career. Career and Technical Education 33 decisions. This dynamic, rapidly evolving career cluster comprises three pathways (fields): Design and Pre-Construction (Architecture and Engineering); Construction (Construction and Extraction); and Maintenance and Operations (Installation, Maintenance, and Repair). The Architecture and Construction career cluster is defined as careers in building, designing, managing, maintaining, and planning the built environment. The built environment encompasses all zones of human activity—from natural conservation areas with minimal human intervention to highly dense areas with tall skyscrapers and intricate highway systems to suburban cul-de-sacs. The interrelated components that make up the built environment are as varied and unique as the professionals who help shape it.

FA-CTE - INTRODUCTION TO CAREERS IN ARTS, A/V TECHNOLOGY, AND COMMUNICATIONS - 27 lessons

Grades: 9-12

.50 Credit

This introductory semester-long high school course provides comprehensive information on five separate areas of arts and communications as potential educational and career pathways, including: audio/video technology and film, performing arts, visual arts, printing technology, journalism and broadcasting, and telecommunication systems. Students who are interested in careers across a broad spectrum of professional positions, including fine artist, telecommunications administrator, magazine editor, broadcast journalist, or computer graphic artist, will gain useful perspective on industry terminology, technology, work environment, job outlook, and guiding principles

FA-CTE - INTRODUCTION TO CAREERS IN GOVERNMENT AND PUBLIC ADMINISTRATION - 22 lessons

Grades: 9-12

.50 Credit

This course provides students with an overview of American politics and public administration, including how political institutions and public management systems at the local, state, and federal levels exercise supervisory authority and maintain accountability. Students explore the foundations of the U.S. government, the separation of powers, the federal civil service system, and the relationship between the government and state and local officials. Students learn about politics in the United States and the electoral process, political attitudes and opinions, and American political parties. Students explore the structure of U.S. federal governmental institutions, the nature of bureaucracy, and the functions of the three branches of government. Students also learn about policy making in the American government, including discussions of foreign and defense policies.

FA-CTE - NURSING ASSISTANT - 35/35 lessons

Grades: 9-12

.50 Credit

This two-semester course prepares students to provide and assist with all aspects of activities of daily living and medical care for the adult patient in hospital, long-term care, and home settings. Through direct instruction, interactive skills demonstrations, and practice assignments, students are taught the basics of nurse assisting, including interpersonal skills, medical terminology and procedures, legal and ethical responsibilities, safe and efficient work, gerontology, nutrition, emergency skills, and employability skills. Successful completion of this course from an approved program prepares the student for state certification for employment as a Certified Nursing Assistant (CNA).

EL - SOCIOLOGY - 22 lessons**Grades: 10-12****.50 Credit**

Providing insight into the human dynamics of our diverse society, this is an engaging, one-semester course that delves into the fundamental concepts of sociology. This interactive course, designed for high school students, covers cultural diversity and conformity, basic structures of society, individuals and socialization, stages of human development as they relate to sociology, deviance from social norms, social stratification, racial and ethnic interactions, gender roles, family structure, the economic and political aspects of sociology, the sociology of public institutions, and collective human behavior, both historically and in modern times.

FA-CTE - TECHNOLOGY AND BUSINESS - 32 lessons**Grades: 10-12****.50 Credit**

This year-long course teaches students technical skills, effective communication skills, and productive work habits needed to make a successful transition into the workplace or postsecondary education. In this course, students gain an understanding of emerging technologies, operating systems, and computer networks. In addition, they create a variety of business documents, including complex word-processing documents, spreadsheets with charts and graphs, database files, and electronic presentations.

QUARTER 3 ELECTIVES:

EL - CAREER MANAGEMENT - 34 lessons

Grades: 9-12

.50 Credit

Career Management is a semester-length high school course that assists students in their preparation for career selection. The course is designed to improve workforce skills needed in all careers including communication, leadership, teamwork, decision making, problem solving, goal setting and time management. Students complete activities that help identify personal interests, aptitudes, and learning styles. Students use results of self-assessments to determine careers that may prove personally satisfying.

FA-CTE - INTRODUCTION TO CAREERS IN EDUCATION AND TRAINING - 31 lessons

Grades: 11-12

.50 Credits

Introduction to Careers in Education and Training is a semester-long course that introduces students to the field of education and training, and the opportunities available for early-childhood through adult and continuing education. Students gain an understanding of the career options available in teaching, administrative work, and support services. They also explore the education and background experience needed to succeed in these careers. Students learn about the evolution of the modern educational system in the United States, and the policies and laws that govern educational institutions. They also discover the similarities and differences between the ethical and legal obligations of working with adults versus working with children.

FA-CTE - INTRODUCTION TO CAREERS IN THE HEALTH SCIENCES - 31 lessons

Grades: 11-12

.50 Credit

This course is an overview of health careers and overriding principles central to all health professions. The course provides a foundation for further study in the field of health science. Upon completion of the course, students are able to discuss the potential career choices and have an understanding of basic concepts that apply to these different choices such as science and technology in human health, disease, privacy, ethics and safety. Essential skill development, such as communication and teamwork, are also addressed.

FA-CTE - INTRODUCTION TO CAREERS IN TRANSPORTATION, DISTRIBUTION, AND LOGISTICS - 28 lessons

Grades: 11-12

.50 Credit

This course introduces students to the complicated world of commercial transportation. Students undertake an overview of the fields of transportation, distribution, and logistics, learning the differences between the fields and the primary services provided in each. Students learn how warehousing, inventory, and other associated businesses impact the economy, which includes the advantages and disadvantages of automation on employment. Students learn about the history of transportation including. Students examine the fields that serve to support and manage transportation systems. Lastly, the role of technology and technological development on transportation-related businesses is addressed.

FA-CTE - INTRODUCTION TO COMPUTER SCIENCE - 41 lessons

.50 Credit

Grades: 9-12

This course introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. Students have creative, hands-on learning opportunities to create a computer program. 34 Imagine Learning Course Catalog 2022 CAREER AND TECHNICAL EDUCATION, CONTINUED a web page, design a mobile app, write algorithms, and collaborate with peers while building a strong foundational knowledge base. This course provides a solid foundation for more advanced study as well as practical skills they can use immediately. Required Materials: *f* **Activities in this course require that Python is installed on students' computers.**

EL - INTRODUCTION TO HUMAN SERVICES - 29 lessons

Grades: 9-12

.50 Credit

This course introduces high school students to the possibilities for careers in the human services professions. Through anecdotes, lessons, and a variety of assignments and projects, students learn about the broad variety of jobs available in the human services. These begin with entry-level positions, such as associate social workers, that require a two-year Associate of Arts degree. Students also learn ethics and philosophies of the helping professions. The history of the profession, as well as the impact of the cultural, social, and economic environment on individual people, especially those who need social services assistance, is also explored.

FA-CTE - MARKETING AND SALES FOR TOURISM AND HOSPITALITY - 31 lessons

Grades: 9-12

.50 Credit

This course is designed as an introduction to the study of tourism and hospitality marketing and sales. Students are introduced to marketing theory and application of the basic principles of marketing, the relationship between marketing and other functions such as advertising, sales techniques, and public relations to maximize profits in a hospitality organization is addressed. Students have an opportunity to explore this multifaceted world, identifying multiple career paths and opportunities.

EL - PSYCHOLOGY A - 25 lessons

Grades: 11-12

.50 Credit

This course introduces high school students to the study of psychology and helps them master fundamental concepts in research, theory, and human behavior. Students analyze human growth, learning, personality, and behavior from the perspective of major theories within psychology, including the biological, psychosocial, and cognitive perspectives. From a psychological point of view, students investigate the nature of being human as they build a comprehensive understanding of traditional psychological concepts and contemporary perspectives in the field. Course components include an introduction to the history, perspectives, and research of psychology; an understanding of topics such as the biological aspects of psychology, learning, and cognitive development; the stages of human development; aspects of personality and intelligence; the classification and treatment of psychological disorders; and psychological aspects of social interactions.

FA-CTE - SMALL BUSINESS ENTREPRENEURSHIP - 26 lessons

Grades: 9-12

.50 Credit

This course is designed to provide the skills needed to effectively organize, develop, create, manage and own a business, while exposing students to the challenges, problems, and issues faced by entrepreneurs. Throughout this course, students explore what kinds of opportunities exist for small business entrepreneurs and become aware of the necessary skills for running a business. Students become familiar with the traits and characteristics that are found in successful entrepreneurs, and see how research, planning, operations, and regulations can affect small businesses. Students also learn how to develop plans for having effective business management, financing and marketing strategies. SOFTWARE DEVELOPMENT

QUARTER 4 ELECTIVES:

FA-AA - ART HISTORY I - 23 lessons

Grades: 11-12

.50 Credit

Introducing art within historical, social, geographical, political, and religious contexts for understanding art and architecture through the ages, this course offers high school students an in-depth overview of art throughout history, with lessons organized by chronological and historical order and world regions. Students enrolled in this course cover topics including early medieval and Romanesque art; art in the twelfth, thirteenth, and fourteenth centuries; fifteenth century art in Europe; sixteenth-century art in Italy; the master artists; High Renaissance and baroque art; world art, which includes the art of Asia, Africa, the Americas, and General Electives 20 Imagine Learning Course Catalog 2022

FA-CTE - BUSINESS COMPUTER INFORMATION SYSTEMS - 40 lessons

Grades: 11-12

.50 Credit

Business Computer Information Systems is a year-long course that explores the use of technology applications in both business and personal situations. The course provides key knowledge and skills in the following areas: communication, business technology, word processing, spreadsheet, and database applications, telecommunications, desktop publishing, and presentation technology, computer networks, and computer operating systems.

EL - BUSINESS LAW - 28 lessons**Grades: 11-12****.50 Credit**

This semester-long high school course is designed to provide students with the knowledge of some of the vital legal concepts that affect commerce and trade, after first gaining some familiarity with how laws are created and interpreted. Students are then introduced to the types of businesses that can be created as well as the contractual and liability considerations that can impact a business. Laws that affect how a business is regulated are reviewed, particularly the impact of administrative rules and regulations on a business. Global commerce and international agreements, treaties, organizations, and courts are discussed to get a better sense of what it means to “go global” with a business. Dispute resolution strategies are also addressed.

FA-CTE - CAREERS IN ALLIED HEALTH - 34 lessons**Grades: 11-12****.50 Credit**

Careers in Allied Health is a semester-long course that focuses on select allied health careers, studying a variety of different levels, responsibilities, settings, education needs and amounts of patient contact. The course includes an overview of the degree or training needed for each job, the environment one would work in, how much money the position could make, and the facts of the actual working day. Within each job type, students explore important aspects applicable to the entire field of allied health, such as behaving ethically, working as a team, keeping patients safe and free from infections and germs, honoring diverse needs of diverse patients, and following laws and policies.

FA-CTE - ENGINEERING AND PRODUCT DEVELOPMENT - 33 lessons

Grades: 11-12

.50 Credit

This course provides an overview of the concepts of product engineering and development. Students analyze the life cycle of a product to prepare a product for distribution and for target markets. The course begins with building an understanding of the product life cycle, from the initial idea to drafting requirements to using 3-D modeling tools and other design tools. The final unit focuses on assembling the pieces within a project plan to achieve a product and evaluating the plans for a successful product launch. In addition, the course provides information about the different careers available to students interested in engineering, product development, and project management.

FA-CTE - FIRE AND EMERGENCY SERVICES - 35 lessons

Grades: 11-12

.50 Credit

This course provides students with the basic structure of these organizations as well as the rules and guidelines that govern pre-employment education requirements. The vehicles, equipment, and emergency-mitigations strategies that are commonly used in the emergency and fire-management field are also explored. In addition, students will gain an understanding of the goals of an emergency management service and how they are implemented and managed, including personnel, budget, and labor-management challenges in the organization.

EL - FOOD SAFETY AND SANITATION - 26 lessons

Grades: 9-12

.50 Credit

This comprehensive semester-long course covers the principles and practices of food safety and sanitation that are essential in the hospitality industry for the protection and well-being of staff, guests and customers. The course provides a systems approach to sanitation risk management and the prevention of food contamination by emphasizing the key components of the Hazard Analysis Critical Control Point (HACCP) food safety system. After successful completion of this course, students are prepared to meet the requirements of state and national certification exams.

FA-CTE - PHARMACY TECHNICIAN - 32 lessons

Grades: 10-12

.50 Credit

This course prepares students for employment as a Certified Pharmacy Technician (CPhT) and covers the skills needed for the pharmacy technician field. Through direct instruction, interactive skills demonstrations, and practice assignments, students learn the basics of pharmacy assisting, including various pharmacy calculations and measurements, pharmacy law, pharmacology, medical terminology and abbreviations, medicinal drugs, sterile techniques, USP 795 and 797 standards, maintenance of inventory, patient record systems, data processing automation in the pharmacy, and employability skills. Successful completion of this course prepares the student for national certification for employment as a CPhT.

EL - TRANSPORTATION AND TOURS FOR THE TRAVELER - 32 lessons

Grades: 9-12

.50 Credit

Transportation and Tours for the Traveler is a semester-long course where students learn about today's package tour industry, travel industry professionals, and package tour customers. Students find out who tour operators must work with to create travel products and what kinds of decisions they must make in terms of meals, lodging, attractions, and, of course, transportation. Finally, students learn about how technology, world events, and increased environmental awareness are affecting the travel industry today. Students focus on the different components that go into creating a tour to get a sense of what working for a tour operator entails as well as what other careers are available in the tour industry.

