

Career Path High Course Catalog 2016-2017

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Language Arts

(4.0 credits required)

English 9 (required)

1.0 credit – 2-Trimester Course

This course addresses strategies for reading comprehension, recognition of text structure in exposition and narrative, comprehension of different genres of text, the steps for writing an essay and applying the five-step writing process. The course also addresses the basic grammar, punctuation, word usage, spelling, vocabulary, and research and explains how to punctuate and manipulate sentences to produce more effective writing. *Course includes a Cross-Curricular Project aligned with a DATC Program and a Project Based Learning Activity.*

Prescriptive Course

English 10 (required)

1.0 credit – 2-Trimester Course

This course helps students develop skills in grammar, punctuation, word usage, spelling, vocabulary and communication skills, such as giving speeches, using visual aids, and work place communications. This course also focuses on strategies for reading comprehension, explains the writing process, helps students compose personal narratives and literary responses, and provides instruction on perspective and argument. *Course includes a Cross-Curricular Project aligned with a DATC Program and a Project Based Learning Activity.*

Prescriptive Course

English 11 (required)

1.0 Credit – 2-Trimester Course

In this course, students continue to develop skills in grammar, punctuation, word usage, spelling, vocabulary, and communication. This course also teaches students about the complex writing processes, types of writing, reading strategies, study skills, and modes of reasoning. Additionally, students read works from different periods of American literature and examine these texts to learn about various literacy devices, forms, styles, techniques, and influences. *Course includes a Cross-Curricular Project aligned with a DATC Program and a Project Based Learning Activity.*

Prescriptive Course

English 12

1.0 Credit – 2-Trimester Course

Note: All Seniors are required to enroll in English 12B (.5 credit 1-Trimester Course) *All 12th graders are required to take English 12B as it facilitates the completion of their senior project. This project helps students compile their e-portfolio to demonstrate their college and career readiness.*

In this course students continue to develop skills in grammar, punctuation, word usage, spelling, vocabulary, and communication. This course also teaches students about complex writing processes, types of writing, reading strategies, study skills, and modes of reasoning. Additionally, students read works from different periods of British literature and examine these texts to learn about various literary devices, forms, styles, techniques, and influences. *Course includes a Cross-Curricular Project aligned with a DATC Program.*

Prescriptive Course

Creative Writing I

.5 credit – 1-Trimester Course

(Grade 12 option or Counselor/Instructor Approval)

Prerequisite: Grade of B or higher in English

This course provides students with a solid grounding in the writing process, from finding inspiration to building a basic story using complicated literary techniques and creating strange hybrid forms of poetic prose and prose poetry. By the end of this course, students will learn how to discover their creative thoughts and turn those ideas into fully realized pieces of creative writing.

Non-Prescriptive Course

Math

(3.0 credits required – 2.0 must be Foundation courses)

- ❖ Successful completion of Secondary Mathematics I, II, and III or higher.
- ❖ Parents may request that students replace Secondary III with a course from the Applied or Advanced approved course list.
- ❖ Students who successfully complete Calculus have met graduation requirements regardless of the number of credits they have taken.

Foundation Math Courses

Secondary Math I (required)

1.0 Credit – 2-Trimester Course

Students will deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomenon, and in part by applying linear models to data that exhibit a linear trend. Students will use properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge. Algebraic and geometric ideas are tied together. Students will experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. *Course includes a Cross-Curricular Project aligned with a DATC Program and a Project Based Learning Activity.*

Prescriptive Course

Secondary Math II (required)

1.0 Credit – 2-Trimester Course

Students will focus on quadratic expressions, equations, and functions, extend the set of rational numbers to the set of complex numbers, link probability and data through conditional probability and counting methods, study similarity and right triangle trigonometry, and study circles with their quadratic algebraic representations. *Course includes a Cross-Curricular Project aligned with a DATC Program.*

Prescriptive Course

Secondary Math III

1.0 Credit – 2-Trimester Course

Students will focus on pulling together and applying the accumulation of learning that they have from their previous courses. They will apply methods from probability and statistics, expand their repertoire of functions to include polynomial, rational, and radical functions, they will expand their study of right triangle trigonometry and will bring together all of their experience with functions and geometry to create models and solve contextual problems. *Course includes a Cross-Curricular Project aligned with a DATC Program.*

Prescriptive Course

Pre-calculus

1.0 Credit – 2-Trimester Course

(Counselor/Instructor Approval)

Prerequisite: Grade of B or higher in previous math course

This course presents students with a formal study of functions, an analysis of sequences and series, counting principles, the binomial theorem, and probability. Students will use technology to employ multiple approaches to problem solving and data modeling. This course also includes topics in trigonometry, parametric curves, the polar coordinate system, and complex numbers in polar form. Students will solve problems using the Laws of Sines and Cosines and will also analyze vectors and conics, study systems of equation and matrices and solve systems using matrices. Limits and continuity are introduced. *Course includes a Cross-Curricular Project aligned with a DATC Program.*

Prescriptive Course

Calculus

1.0 Credit – 2-Trimester Course

(Counselor/Instructor Approval)

Prerequisite: Pre-Calculus or Secondary Math III with grade of B or higher

This course includes a study of limits, continuity, and differentiation. It integrates algebraic, trigonometric and transcendental functions, and the applications of derivatives and integrals.

Prescriptive Course

Applied Math Courses

Math & Personal Finance

1.0 Credit Math and .5 Credit Financial Literacy – 3-Trimester Course (Grade 12 option or Counselor Approval)

How do our personal financial habits affect our financial future? How can we make smart decisions with our money in the areas of saving, spending and investing? This course introduces students to basic financial habits such as setting financial goals, budgeting, and creating financial plans. Students will learn more about topics such as taxation, financial institutions, credit, and money management.

Non-Prescriptive Course

Science

(3.0 credits required – 2.0 must be Foundation courses)

Foundation Science Courses

Earth Science – Grade 9

1.0 Credit – 2-Trimester Course

This course addresses major concepts such as the materials which compose Earth, the rock cycle and types of rocks, Earth's resources, formation and movement of soil, glaciers, deserts, and alluvial landscapes, earthquakes, volcanoes, plate tectonics, mountain building, and geological time. This course also covers concepts such as the ocean floor, seafloor sediments, waves, tides, and shoreline processes, characteristics of the atmosphere, precipitation, air-pressure and wind, storms, climate, early astronomy, Earth-Moon-Sun interactions, and Solar Systems. *Course includes a Cross-Curricular Project aligned with a DATC Program and a Project Based Learning Activity.*

Prescriptive Course

Biology – Grade 10

1.0 Credit – 2-Trimester Course

This course addresses key concepts and processes from chemistry, cells, cellular respiration, photosynthesis, genetics, and DNA. The scientific method and foundational chemistry facts are presented to assist students in the study of biology. *Course includes a Cross-Curricular Project aligned with a DATC Program and a Project Based Learning Activity.*

Prescriptive Course

Chemistry

1.0 Credit – 2-Semester Course Course

Prerequisite: Grade of B or higher in Secondary Math II

This course addresses key concepts and processes from states of matter, atomic theory, organization of periodic table, types of chemical bonds and reactions, the naming and formulas of chemicals, chemical reactions, and stoichiometry. The field of chemistry in relation to the scientific method is also explained. *Offered through our partnership with Utah Online Education.*

Physics

1.0 Credit – 2-Trimester Course (Counselor/Instructor Approval)

Prerequisite: Secondary Math III with Grade of B or higher

This course addresses concepts of mechanics, wave behavior, and thermodynamics, Newton's law of motion, thermal properties of matter, and thermodynamic systems. This course also contains lessons on electricity, magnetism, optics, the interactions among electric charges, properties of electric and magnetic fields and forces and the characteristics of electromagnetic waves. *Course includes a Cross-Curricular Project aligned with a DATC Program.*

Prescriptive Course

Applied Science

Environmental Science

1.0 Credit – 2-Trimester Course

This course presents relationships between organisms and how these relationships relate to the functioning of ecosystems. Students learn the key concepts and processes of nutrient cycling, biomes, pollution, energy resources, and habitat destruction. The course also covers ways to promote biodiversity and create a sustainable future. *Course includes a Cross-Curricular Project aligned with a DATC Program.*

Prescriptive Course

Introductory Astronomy

.5 credit – 1-Trimester Course

Prerequisite: Basic writing skills required

Students will explore a broad range of astronomy topics, including the planetary system, stars, galaxies, and the universe. Students also learn about the scientific method and the evolution of scientific ideas.

Non-Prescriptive Course

Astronomy

.5 credit – 1-Trimester Course

Prerequisite: Basic writing skills required

Why do stars twinkle? Is it possible to fall into a black hole? Will the sun ever stop shining? 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.

Non-Prescriptive Course

Forensics I

.5 credit – 1-Trimester Course

Prerequisite: Basic writing skills required

Fingerprints. Blood spatter. DNA analysis. The world of law enforcement is increasingly making use of the techniques and knowledge from the sciences to better understand the crimes that committed and to catch those individual responsible for the crimes. Forensic science applies scientific knowledge to the criminal justice system. This course focuses on some of the techniques and practices used by forensic scientists during a crime scene investigation.

Non-Prescriptive Course

Forensics II

.5 credit – 1-Trimester Course

Prerequisite: Forensics I. Basic writing skills required

Although the crime scene represents the first step in solving crimes through forensic science, the crime laboratory plays a critical role in the analysis of evidence. This course focuses on the analysis of evidence and testing that takes place within this setting. We will examine some of the basic scientific principles and knowledge that guides forensic laboratory processes, such as those testing DNA, toxicology, and material analysis. Techniques such as microscopy, chromatography, odontology, entomology, mineralogy, and spectroscopy will be examined.

Non-prescriptive Course

Social Studies

(3.0 credits required)

Geography for Life – Grade 9

1.0 credit – 2-Trimester Course

This course addresses key concepts of physical and human geography and presents information about the United States, Canada, Latin America, Western Europe, Central Europe, Northern Eurasia, Central and Southwest Asia, Africa, South Asia, East Asia, the Pacific world, and Antarctica. *Course includes a Cross-Curricular Project aligned with a DATC Program and a Project Based Learning Activity.*

Prescriptive Course

World Civilization – Grade 10

.5 credit – 1-Trimester Course

This course contains lessons addressing periods from Prehistory through Globalization in the 21st century. The objectives of the lessons are directly aligned to current standards. Each multimedia lesson is designed to teach the major concepts for each historical period through text, visual aids, activities and assessments. *Course includes a Cross-Curricular Project aligned with a DATC Program and a Project Based Learning Activity.*

Prescriptive Course

US History – Grade 11

1.0 credit – 2-Trimester Course

This course contains lessons addressing historical periods from the American Revolution to globalization and the twenty-first century. The lessons address key concepts, important historical figures, and significant events to help students gain an understanding of the political, economic, military and social structures of the early years of the United States through its emergence as a global superpower. *Course includes a Cross-Curricular Project aligned with a DATC Program and a Project Based Learning Activity.*

Prescriptive Course

US Government & Citizenship – Grade 12

.5 credit – 1-Trimester Course

This course covers the foundations of American government, political behavior, and the three branches of the federal government. *Course includes a Cross-Curricular Project aligned with a DATC Program.*

Prescriptive Course

Directed Coursework

Financial Literacy (.5 credit required)

Financial Literacy – Grade 11-12

.5 credit – 1-Trimester Course

The General Financial Literacy Core describes decision-making skills students should know and be able to apply as consumers, savers, investors, users of credit, money managers, citizens, and members of a global workforce and society.

Non-Prescriptive Course

Computer Technology (.5 credit required)

Exploring Computer Science – Grade 9

.5 credit – 1-Trimester Course

Computer literacy is a foundational element of success in today's technology-driven world. This course is intended for students to learn concepts associated with key application software, basic computing fundamentals, and ethics and appropriate behavior while using technology as a tool in the classroom and in life.

Non-Prescriptive Course

Fine Arts (1.5 credits required)

Art Appreciation

.5 credit – 1-Trimester Course

The best way to learn to appreciate art is by making art. In this course, explore the art of different cultures around the world while developing your own art skills. With help from the masters of old, try your hand at drawing, painting, street art, sculpting, collage, architecture, and other art forms. This course is great for beginners and experts alike.

Non-Prescriptive Course

Digital Commercial Art

.5 credit – 1-Trimester Course

Art isn't just for museums and galleries; it's in the world all around you. Through this course you'll learn about the art you see in everyday life and how to design your own digital art. We'll explore photography, web design, Photoshop, graphic design, advertising, product design, and 3D rendering. If you've got an idea for making something, we'll help you design it here.

Non-Prescriptive Course

Digital Photography I

.5 credit – 1-Trimester Course

This course focuses on the basics of photography, including building an understanding of aperture, shutter speed, lighting, and composition. Students will use the basic techniques of composition and camera functions. Students will use the basic techniques of composition and camera functions to build a portfolio of images, capturing people, landscapes, close-up, and action photographs.

Non-Prescriptive Course

Digital Photography II

.5 credit – 1-Trimester Course

Prerequisite: Digital Photography I

In this course, we will examine various aspects of professional photography, including the ethics of the profession and examine some of the areas that professional photographers may choose to specialize in, such as wedding photography and product photography.

Non-Prescriptive Course

Drawing I

.5 credit – 1-Trimester Course

Note: This class has an in-person component and mandatory in-person attendance is required.

This is a studio class, but some attention will be given to art history and criticism. Such drawing media as pencil, charcoal, pastel, colored pencils, pen and ink will be explored.

Drawing II

.5 credit – 1-Trimester Course

Prerequisite: Drawing I

Note: This class has an in-person component and mandatory in-person attendance is required.

This is a studio class, but some attention will be given to art history and criticism. This is a more advanced study of drawing emphasizing the figure. Such media as pencil, charcoal, pastel, colored pencils, and pen and ink will be explored.

Theater, Cinema & Film Production

.5 credit – 1-Trimester Course

Lights! Camera! Action! This course will introduce students to the basics of film and theater productions. Students will learn about the basics of lighting, sound, wardrobe, and camera work for both film and theater settings. The course also explores the history of film and theater and the influence that they have had on society. Students will analyze and critique three influential American films: *Casablanca*, *Singin' in the Rain*, and *The Wizard of Oz*.

Non-Prescriptive Course

Yearbook

.5 credit

Prerequisite: Instructor approval

This course teaches the necessary skills to produce the school yearbook, which records the entire school year at Career Path High. Students learn magazine journalism that focuses on photography, interviewing, and page layout. Students also learn and establish ethical journalistic behavior.

CTE*

(1.0 credit required)

- ❖ Credit is earned through student's DATC Career & Technical Certification Program. A student must be in 11th or 12th grade to be eligible for program participation. Students may also begin their program during the summer prior to their 11th grade year.
- ❖ 30 hours in a DATC Program transfer to .25 high school credits at Career Path High for CTE and Elective credits.

Health & Physical Education

(.5 Health credit and 1.5 PE credits required)

Health – Grade 10

.5 credit – 1-Trimester Course

This course provides opportunity for students to develop knowledge, skills, and attitudes necessary for practicing lifelong, health-enhancing behaviors. The curriculum focuses on what students can do for themselves to meet the objectives of the state standards and illustrates the impact their attitudes and behaviors have on the world around them. Students will learn they are responsible for their personal well-being and that building a solid foundation of health literacy and decision-making skills can contribute to positive health choices throughout life. In addition, students will explore the impact their personal health has on society as a whole. *Course includes a Cross-Curricular Project aligned with a DATC Program.*

Non-Prescriptive Course

Participation Skills & Techniques – Grade 9

.5 credit – 1-Trimester Course

This course includes instruction in lifetime activities. Individual, dual, and team sports activities, with the emphasis on activities offering lifelong participation opportunities. Participation Skills and Techniques is designed to develop competency in different activities. Competency involves the ability to apply the basic skills, strategies, and rules using standardized guidelines or rubric.

Non-Prescriptive Course

Fitness for Life – Grade 10

.5 credit – 1-Trimester Course

This course is designed to give students the knowledge and skills necessary to self-assess, create, conduct, evaluate, and redesign personal fitness programs.

Non-Prescriptive Course

Individualized Lifetime Activities

.5 credit – 1-Trimester Course

The purpose of this course is to help students discover activities that they enjoy and activities that they can continue on with throughout their life.

Non-Prescriptive Course

Team Sports/Athletic Participation

.5 credit

This is an optional replacement for Individualized Lifetime Activities.

Electives*

(6.0 credits required)

- ❖ All 6.0 required high school elective credits are earned through student's DATC Career & Technical Certification Program. A student must be in 11th or 12th grade to be eligible for program participation. Students may also begin their program during the summer prior to their 11th grade year.
- ❖ 30 hours in a DATC Program transfer to .25 high school credits at Career Path High for CTE and Elective credits.
- ❖ Career Path High credits earned above credits needed for graduation in any of the required categories will count towards elective credits.

Human Geography

.5 credit – 1 Trimester Course

How do language, religion, and landscape affect the physical environment? How do geography, weather, and location affect customs and lifestyle? Students will explore the diverse ways in which people affect the world around them and how they are affected by their surroundings. Students will discover how ideas spread and cultures form, and learn how beliefs and architecture are part of a larger culture complex. In addition to introducing students to the field of Human Geography, this course will teach students how to analyze humans and their environments.

Non-Prescriptive Course

Personal Psychology I

.5 credit – 1 Trimester Course

Self-knowledge is the key to self-improvement! Psychology is a subject that can be applied to everyday life. New research and ideas will change the way we view ourselves and each other. This course offers exciting online psychology experiments about our own behavior and how we behave with other people.

Non-Prescriptive Course

Personal Psychology II

.5 credit – 1 Trimester Course

Prerequisite: Personal Psychology I

Enrich the quality of your life by learning to understand the actions of others! Topics include the study of memory, intelligence, emotion, health, stress and personality. This course offers exciting online psychology experiments about the world around us.

Non-Prescriptive Course

Sociology I

.5 credit – 1 Trimester Course

The world is becoming more complex. How do your beliefs, values and behavior affect the people around you and the world we live in? In this increasingly connected world, students will examine problems in our society and learn how human relationships can influence the life of the student. Exciting online video journeys to different areas of the world are also presented in the course.

Non-Prescriptive Course

Sociology II

.5 credit – 1 Trimester Course

Prerequisite: Sociology I

Sociology is the study of people, social life and society. The development of a sociological imagination will enable students to examine how society shapes human actions and beliefs, and how such actions and beliefs in turn shape society. Exciting online video journeys to different areas of the sociological world are also presented in the course.

Non-Prescriptive Course

World Languages

(2.0 credits generally required by Institutions of Higher Education)

- ❖ All world language courses are offered through USOE authorized public school program, the Statewide Online Education Program.
- ❖ Students enroll through the Career Path High counselor.

***DATC Career & Technical Programs**

As a Career Path High student, 11th and 12th graders are required to be enrolled in a Career and Technical Program through the DATC.

- ❖ Credits earned satisfy 1.0 required CTE credit and 6.0 required Elective credits.
- ❖ 30 hours = .25 credit – 30 Progress hours in a DATC Program transfer to .25 high school credits.
- ❖ Transfer of Career & Technical Program Hours to CPH Credits: 7.5 High School credits = 900 DATC Progress Hours.
- ❖ Additional credits may be earned/satisfied through DATC courses/hours as accepted and approved by Career Path High Administration.

Released Time – LDS Seminary

Seminary is available through two options:

- ❖ LDS Seminary is available to all CPH students, M-TH from 8-9am, held at the LDS Institute building located at 605 E. DATC Drive.
- ❖ Seminary can be taken at your LDS seminary on the campus of your high school of residence. You can contact the seminary directly for information and enrollment.