



CURRICULUM

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Revised January 2010

LANGUAGE ARTS

L = Transcript Code

LANGUAGE ARTS REQUIREMENTS: 40 credits

Literature = 10 credits

Composition = 15 credits

Communication = 5 credits

LA Electives = 10 credits

Literature

L01 Analytical Reading

This is a college preparatory course designed to improve the student's study, reading, and analytical skills. The student will read and analyze a variety of texts.

L02 African American Literature

This is a survey course covering a wide variety of genres relating to African American literature from its beginnings to the current period. The student will work on refining composition skills to increase his/her ability to write clearly, correctly, and logically for a variety of purposes and audiences. Literary analysis through critical thinking is emphasized in class discussions and writing assignments.

L03 American Folktales

This course will explore the characters, themes, and importance of American folktales throughout our history. The student will analyze pieces of literature through critical thinking, literary comparison, and class discussion. The student will work on refining composition skills to increase his/her ability to write clearly, correctly, and logically for a variety of purposes and audiences.

L04 American Literature

This survey of American literature includes genres, authors, and historical context. The student works on refining composition skills to increase the ability to write clearly and logically for a variety of purposes and audiences. Literary analysis through critical thinking is emphasized in class discussions and writing assignments.

L05 American Short Stories

This course is an exploration of the short story as a genre in American literature and culture. The student will analyze pieces of literature through critical thinking, literary comparison, and class discussion. The student will work on refining composition skills to increase his/her ability to write clearly, correctly, and logically for a variety of purposes and audiences.

L06 Survey of World Literature

This course involves the reading, study, and critical analysis of a selection of readings from world literature. Grammar, mechanics, vocabulary building, and

spelling will be emphasized throughout the course to improve and enhance the quality of student writing.

L07 Analyzing and Interpreting Literature

This course is designed for the student preparing for the College Level Examination Program (CLEP) Analyzing and Interpreting Literature test.

L08 Ancient Greek and Roman Literature

This course explores Greek and Roman literature before 500 C.E. Literary analysis through critical thinking is emphasized in class discussions and writing assignments. The student will also work on composition skills to enhance their abilities to write clearly, correctly, and logically for a variety of purposes and audiences.

L09 Advanced Placement English Literature and Composition

This course prepares students for the Advanced Placement Exam. The student will focus on the close reading of literary content and write essays that demonstrate understanding of particular works of literature. The student will develop the writing and language skills required for critical and rhetorical analysis to become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts. This course also provides the practice for students to become flexible writers who can compose in a variety of modes and for a variety of purposes.

L10 Biblical Literature

This course is an introduction to the Bible as literature. The student will work on refining composition skills to increase his/her ability to write clearly, correctly, and logically for a variety of purposes and audiences.

L11 British Literature

This course includes the study and analysis of a variety of literary genres from the United Kingdom throughout its history. Literary analysis through critical thinking is emphasized in class discussions and writing assignments. The student will work on refining composition skills to increase his/her ability to write clearly, correctly, and logically for a variety of purposes and audiences.

L12 Children's Literature

This course explores the field of children's literature, including texts, authors, and illustrators. The student will analyze pieces of literature through critical thinking, literary comparison, and class discussion. The student will work on refining composition skills to increase his/her ability to write clearly, correctly, and logically for a variety of purposes and audiences.

L13 Civil War Literature

This course examines literature from the Civil War Period. Literary analysis through critical thinking is emphasized in class discussions and writing assignments. The student will work on refining composition skills to increase his/her ability to write clearly, correctly, and logically for a variety of purposes and audiences.

L14 Classics of World Literature

This course explores great literature of the world, specifically books that are widely read as great works. Literary analysis through critical thinking is emphasized in class discussions and writing assignments. The student will work on refining composition skills to increase the ability to write clearly and logically for a variety of purposes and audiences.

L15 Contemporary Literature

This course examines a variety of literary genres from around the world from the 1970's to the present. Literary analysis through critical thinking is emphasized in class discussions and writing assignments. The student will work on refining composition skills to increase his/her ability to write clearly, correctly, and logically for a variety of purposes and audiences.

L16 Literature of Science Fiction and Fantasy

This course focuses on science fiction and fantasy. The student will analyze pieces of literature through critical thinking, literary comparison, and class discussion. The student will work on refining composition skills to increase his/her ability to write clearly, correctly, and logically for a variety of purposes and audiences.

L17 Literary Themes

This course provides an in depth study of a particular literary theme about human nature, life, or society by studying its treatment across a variety of literary texts.

L18 Mythology

This course involves the study of various myths, legends, and epics from world cultures. Students will examine how mythical allusions, archetypes, and themes enrich literature, art, and film.

L19 National/Regional Literature

This course undertakes the study of literary texts of a particular nation or region of the world. Literary analysis through critical thinking is emphasized in class discussions and writing assignments. The student will work on refining composition skills to increase his/her ability to write clearly, correctly, and logically for a variety of purposes and audiences.

L20 Native American Literature

This course focuses on the written literature and oral traditions of Native American peoples. The student will analyze pieces of literature through critical thinking, literary comparison, and class discussion. The student will work on to writing clearly, correctly, and logically for a variety of purposes and audiences.

L21 Shakespeare

This course focuses on the writings of Shakespeare and the adaptations of his works throughout time. Literary analysis through critical thinking is emphasized. The student will work on refining composition skills to increase his/her ability to write clearly, correctly, and logically for a variety of purposes and audiences.

L22 Short Fiction

This course involves the reading and analysis of short prose fiction. Literary analysis through critical thinking is emphasized in class discussions and writing assignments. The student will work on refining composition skills to increase his/her ability to write clearly, correctly, and logically for a variety of purposes and audiences.

L23 Survey of Literature

This course is an introductory study of literary genres. The student will analyze pieces of literature through critical thinking, literary comparison, and class

discussion. The student will work on refining composition skills to increase his/her ability to write clearly, correctly, and logically for a variety of purposes and audiences.

Composition

L50 Academic English Composition

This is a college preparatory course intended to strengthen the student's grammar, writing style, vocabulary, and compositional skills. Students will be expected to write in a variety of styles.

L51 Advanced Placement English Language and Composition

The student will analyze prose and write essays. This course prepares the student for the Advanced Placement Language Exam. The student will develop the writing and language skills required for critical and rhetorical analysis.

L52 Applied English Writing

This course is a review of the fundamental concepts of grammar, usage, basic research skills, and vocabulary through reading and writing in order to prepare the student for effective workplace communication.

L53 Intermediate Composition

This course focuses on writing research essays, as well as strengthening grammar, mechanics, spelling, and vocabulary skills to improve and enhance the quality. Cause/effect, comparison/contrast, and persuasive modes of composition will be taught of student writing.

L54 Advanced Composition

This is an advanced academic writing course that incorporates research techniques. The student will refine composition skills to increase his/her ability to write clearly, correctly, and logically for a variety of purposes and audiences.

L55 Writing Lab

This course focuses on practicing and improving the student's writing skills.

L56 Advanced Composition II

This is an advanced academic writing course that focuses on the development of writing style. Students will learn to use syntax and diction to enhance meaning.

Communication

L70 Communication in Society

This course is an introduction to nonverbal and verbal communication, interpersonal and intrapersonal communication, group dynamics, and public speaking. The student will learn the following: speech fundamentals, how to break down the barriers to communication, becoming aware of and expressing ideas and thoughts, problem-solving, conflict management, thinking skills, and decision-making.

L71 Debate

This course is an introduction to research, organization, and speaking skills needed to effectively present the coherent arguments related to a variety of issues.

L72 Public Speaking

This course is an introduction of how to organize, plan, prepare, rehearse and present impromptu, persuasive, and formal speeches in public situations. In this course, technique and polish in public speaking are cultivated.

L73 Film Analysis

This course will guide students to identify and analyze film genres, film history, and cinematography techniques.

L74 Journalism

This course focuses on the study of media and writing news stories, feature stories, and editorials. Learning graphic design elements for publication is included.

L75 Workplace Communication

This writing course focuses on practical written and verbal communication skills in a variety of workplace settings.

L76 Theatre Studies

This course is an introduction to theatre, including the study of plays, playwrights, stage terminology, and basic dramatic art.

L77 Improvisation

The objectives of this course are to discover the fundamentals of improvisational comedy, improve storytelling skills, learn techniques to think quickly on your feet, and to be more creative. This spirited, fun course is designed for the actor or comedian who wants to learn the essentials of good scenic improvisation or anyone who wants to improve their teamwork or communication skills.

L78 Shakespeare in Performance

This is an intensive course designed to explore the fundamental components of Shakespeare through acting technique: voice, movement, action, characterization, improvisation, and performance in the effort to provide a fun, interactive, and enlightening experience for actors and non-actors alike.

Prerequisite: L21 Shakespeare

L79 Reader's Theatre

This course involves the adaptation of fiction and nonfiction into script form. The emphasis of this course will be creative writing, literature appreciation, and verbal communication.

Language Arts Electives

L80 Poetry

This course is an introduction to the study and writing of poetry. Students will become familiar with a variety of poetic techniques.

L81 Readers' Workshop I

This course is designed to improve reading skills, to promote reading for pleasure, and to develop life long reading habits.

L82 Readers' Workshop II

This course is the second semester of Readers' Workshop I. It is designed to improve reading skills, to promote reading for pleasure, and to develop life long reading habits.

L83 Writing Lab

This course focuses on practicing and improving the student's writing skills.

L84 Creative Writing

This course introduces the student to poetry and short fiction. The student explores various writing techniques and creates original works.

L85 Humanities I

This survey of the humanities focuses on diverse aspects of art, architecture, music, drama, and poetry.

L86 Humanities II

This survey of the humanities focuses on archeology, history, religion, and philosophy.

L87 Research Skills in Humanities

This course focuses on the proper techniques and ethics associated with the research, analysis, presentation, and documentation of independent studies in the humanities and social sciences.

L88 Language Arts Test Preparation

This course helps the student learn test taking techniques and strategies, how to reduce test taking anxiety and how to prepare for standardized tests.

L89 Poetry Slam

This course will involve students in defining, composing, practicing, performing, and judging poetry. It will help them realize that poetry is a living art form—not just words on a page. Once students are introduced to various poetic devices, techniques, and forms, they are exposed to the origin, rules, judging, performance skills, and scoring involved in a poetry slam competition.

L90 Language Arts Independent Study

SOCIAL STUDIES

H = Transcript Code

Social Studies Requirements: 20 credits

U.S. Government	= 5 credits
World Geography	= 5 credits
American History	= 5 credits
World History	= 5 credits

United States Government

H01 United States Government (Formerly American Government)

This course focuses on the origins of the United States of America, documents such as the Declaration of Independence and the Constitution, the pillars of our democratic republic, and the three branches of government. The functions of national, state, and local governments and their relationships to the citizens of the United States are covered. Various governmental problems at all levels of government are presented. The responsibilities and obligations of both the citizen and the government to each other are an integral part of this course.

H02 Civics and Citizenship

This course is a study of the citizen's role with respect to the American system of government, justice, creating and changing laws, and constitutional rights and responsibilities.

H03 Constitutional Law

This course is an introduction to American constitutional law. The course will explore various methodologies of constitutional interpretation and modes of constitutional analysis. Topics covered may include the role of the judiciary in reviewing acts of the political branches of government; the separation of powers and relations among the three branches of the federal government; the powers of the national government and federalism-based limits on Congress and the states; and individual constitutional rights.

World Geography

H10 World Geography (Formerly Geography)

This study of world geography focuses on eco-systems, population, migration and urbanization, climates, trade, landscapes, and natural phenomena in the world. The student will use spatial analysis to better understand the patterns of people, landscape, and natural phenomena of the Earth. The topics include local and world regions, climates, ecosystems, population issues, resources, international trade, environmental issues, natural hazards, geographic tools, and technology.

H11 Physical Geography

This study of world geography focuses on place, location, topography, eco-systems, climates, landscapes, and natural phenomena.

H12 Cultural Geography

This geography course compares and contrasts world cultures and their relation to eco-systems, movement, trade, and resource management. Topics include population, the political organization of space, cultural patterns, economic development, urbanization, and agriculture.

H13 Regional Geography

This course is the study of cultural and physical geography in specific regions of the world. Topics include climates, ecosystems, population issues, resources, international trade, environmental issues, natural hazards, geographic tools, and technology.

H14 Climate Change

This course focuses on the effects of people and natural phenomena on the Earth's climate.

American History

H20 American History 1

This one-semester course is a survey of the political, economic, social, and cultural development over time of the United States. The student's study will focus on pre-colonial times to 1900.

H21 American History 2

This one-semester course is a survey of the political, economic, social, and cultural development over time of the United States. The student's study will focus on the United States during the Twentieth Century.

H22 American Civil War History

This course is a study of the major causes, events, institutions, people, and social forces before, during, and after the American Civil War. The student will study the major events of the war and Reconstruction. Students will learn northern and southern political ideas, war strategies, and Reconstruction policies.

H23 American History and Film

This course examines diverse aspects of American culture and society through a comparative historical analysis of film.

H24 American Historical Studies

This course focuses on the cultural aspects of American life as reflected in literature, technology, historical documents, music, architecture, popular culture, and visual arts. The student will explore contrasts and comparisons of historical periods, literary themes, political philosophies, and cultural developments.

H25 History of the American Revolutionary War

This course focuses on the important causes, issues, events, and social and political forces of the Colonial Period. The student will study the American Revolutionary War, including major battles, important people, and the ramifications that followed.

H26 History of United States Supreme Court

This course focuses on the important issues, decisions, and members of the United States Supreme Court and how these have shaped our country. The student will understand how the Supreme Court works within the government and how its rulings have an effect on law at all levels.

H27 Period Study of American History

This course is a historical study of the cultural and scientific developments of specific time periods in American history.

H28 United States Regional History

This course is an in-depth study of a region's historical, cultural, and geographic development within the United States.

H29 Local History

In this course, students use primary resources to investigate the people and the historical development of the communities in Boulder County and along the Front Range.

H30 Military History

This course focuses on military tactics, strategy, technology, morality, and bilateral relationships in American history.

H31 History of U.S. Foreign Policy

This course focuses on how United States foreign policy has been created to serve our nation's interests, how our foreign policy has changed over time, and how it has impacted various nations.

H32 History of U.S. Politics and Problems

This course focuses the American political process, civil unrest, media coverage, and activism throughout our nation's history.

H33 History: American Biographies

This course focuses on the history of American life by reading works that focus on important people in American history.

World History

H50 World History 1

World History 1 is the chronological, thematic, and comparative study of the major cultures of the regions of the world, from the origins of human civilization to 1500. Historical research skills are a required component of the course. The student will use a variety of source materials (readings, art, artifacts, etc.) to examine specific topics.

H51 World History 2

World History 2 is the chronological, thematic, and comparative study of the major cultures of the regions of the world from 1500 to present time. Historical research skills are a required component of the course. The student will use a variety of source materials (readings, art, artifacts, etc.) to examine specific topics.

H53 Contemporary World Events

In this course, the student investigates and analyzes contemporary world events as presented in a variety of media. The student will look at historical, global, and cultural factors that influenced current events.

H54 Period Study of World History

This course is a historical study of the cultural and scientific developments of specific time periods in world history.

H55 History of a Nation/Region

This course is an in-depth study of a selected nation's or a region's historical, cultural, and geographic development.

H56 Humanities in History

This survey of world humanities focuses on archeology, history, religion, and philosophy.

H57 History of Middle Eastern Civilization

This course focuses on the civilizations and cultures of the Middle East.

H58 Historical Studies in Peace and Conflict

In this course, the student examines the lives and works of historic world leaders and how they promoted peace and dealt with conflict.

H59 History of Western Civilization

This course is an introduction to the development of European civilizations and their impacts on the world.

H60 Survey of World History

This course is a comparative study of important cultures from diverse regions throughout history.

H61 East Asian History

This course focuses on the historical and cultural development of the peoples, nations, and countries of East Asia.

H62 South Asian History

This course focuses on the historical and cultural development of the peoples, nations, and countries of South Asia.

H63 History of Africa and the Caribbean

This course focuses on the historical and cultural development of the peoples, nations, and countries of Africa and the Caribbean.

H64 History of Western Music

In this course, the student explores the development of Western music during various time periods.

Social Studies Electives

H70 Anthropology

This course is an introduction to the origins and development of early civilizations and traditional societies from a cultural, physical, and historic perspective.

H71 Economics

This course is an analysis of the American economic system as it relates to the individual and other economic systems.

H72 Philosophy

This course focuses on important philosophers, their theories, and their cultural influences. The student will be introduced to philosophical questions and will look at how some of history's greatest philosophers have approached those questions and what they have had to say about them.

H73 Psychology

This course focuses on human behavior and human development. The student will cover theories of personality, mental, emotional, and physical development as they relate to the understanding of behavior.

H74 Sociology

This course focuses on the behavior of groups and their influences in contemporary society. The student will study society's culture, institutions, and organizations. The student will examine values and norms, socialization, social change, social problems, and contemporary issues.

H75 Criminal Justice

This course is an introduction to the institutions and processes of the criminal justice system.

H76 Local Government

This course focuses on the social, political, economic, intellectual and cultural development of Boulder County and the Front Range Region.

H77 Contemporary Political Problems

This course focuses on contemporary issues as related to political process, civil unrest, media coverage, and activism.

H78 Contemporary U.S. Foreign Policy

This course focuses on how contemporary United States foreign policy is created to serve our nation's interests and how it impacts various nations.

H79 Contemporary Studies in Peace and Conflict

In this course, the student examines the lives and works of contemporary world leaders and how they promoted peace and dealt with conflict.

H80 Introduction to Law

The course provides an overview of the law and the legal system. Topics may include legal concepts, procedures, terminology, and current issues in law.

H81 Criminal Law and Criminal Procedure

This course covers selected topics in substantive criminal law, principles underlying the definition of crime, and general doctrines. Offenses studied may include homicide, trespass, and theft. Topics of criminal procedure include study of the Fourth Amendment: due process issues such as search and seizure and the right of privacy.

H82 Civil Law

This course will cover three main topics: personal rights; contract law; law of tort.

H90 Independent Study Social Studies

SCIENCE

S = Transcript Code; Formerly P Code

SCIENCE REQUIREMENTS: 20 credits

Physical Science	= 5 credits
Life Science	= 5 credits
Earth Science	= 5 credits
Elective Science	= 5 credits

Physical Science

S01 Physical Science

This inquiry-oriented course focuses on the principles and concepts concerning the physical world such as: the nature and behavior of matter, atomic theory, chemical, and physical changes including bonding and reactions, mechanics, electricity and magnetism, light and sound, and energy. Laboratory activities reinforce concepts and principles presented. (Formerly P01)

S02 Investigation of Physical Scientific Principles

This course focuses on physical principles that emerge consistently within the varied disciplines of physical science. The student gains a deeper understanding of the universal mechanisms involved in physical processes. (Formerly P02)

S03 Physical Science Exploration and Experimentation

In this course the student compares the results of experimental investigations, conducts physics experiments, engages in secondary research, and writes abstracts. (Formerly P03)

S04 Basic Concepts in Chemistry

This introductory course focuses on the relationships between the structure and properties of matter and the interaction of mass and energy. Laboratory activities reinforce concepts and principles presented in the course. (Formerly P04)

S05 Chemistry

This course focuses on the relationships between the structure and properties of matter and the interaction of mass and energy. This course provides the opportunity to develop knowledge and understanding about the relationships between the structure and properties of matter and the interaction of mass and energy. Units of study may include: matter and its changes, atomic structure, chemical composition, reactions, gas laws, periodicity, bonding, and molecular geometry. Laboratory activities reinforce concepts and principles presented in the course. (Formerly P05)

S06 Survey of Organic Chemistry

This course focuses on the relationships between the structure and properties of organic compounds. Laboratory activities reinforce concepts and principles presented in the course. (Formerly P06)

S07 Basic Concepts in Physics

In this introductory course, the student is introduced to Newton's Laws, kinetic vs. potential energy, forces, vectors, colliding particles, and motion. Laboratory activities reinforce concepts and principles presented in the course. (Formerly P07)

S08 Physics

In this course, the student studies Newton's Laws, kinetic vs. potential energy, forces, vectors, colliding particles and motion. Laboratory activities reinforce concepts and principles presented in the course and will illustrate the experimental nature of physics. (Formerly P08)

S09 Physics Lab 1

In this course, the student learns about force, vibration, momentum, measurement, and flow. The student uses a variety of physics lab equipment, such as harmonic spring tester, shaft tester, wave CAD, vertical wind tunnel, centrifuge, trebuchet, non collinear calibrator, hydrogen fuel cell vehicle, ultrasonic detector, small motors, and sound chamber. (Formerly P09)

S10 Physics Lab 2

This is a lab-centered course in which the student uses the scientific method and studies basic physical laws, scientific methods, measurement, forces, motion, energy, light, waves, electricity, magnetism, and atomic physics. (Formerly P10)

S11 Consumer Chemistry

This is a less rigorous course in which students learn important concepts about how chemistry is used in modern society. (Formerly P11)

Life Science

S20 Basic Biology

This course is less academically rigorous than Biology and involves the identification, function, and relationships of organisms and cells and their environment. Laboratory activities reinforce concepts and principals presented in the course. (Formerly P20)

S21 Biology (Formerly P21)

In this course, students learn about the relationships between the structure and function of organisms and the interaction of cells and organisms and their environments over time. Units of study may include: the process of science including measurement and science safety, the characteristics and chemical basis of life, cell biology, genetics, evolution, as well as taxonomies and classification, and ecology. Laboratory activities reinforce concepts and principles presented in the course.

S22 Biology Lab (Formerly P22)

In this lab-centered course the student studies the relationships between the structure and function of organisms and the interaction of cells and organisms.

S23 Anatomy (Formerly P23)

In this course, the student studies the structures and functions within the human body. Laboratory activities reinforce concepts and principles presented in the course.

S24 Food Science

This course focuses on the genetics, biology, and chemistry involved in growing, designing, harvesting, processing, cooking, ingesting, digesting, and metabolizing food. (Formerly P24)

S25 Health Science (Formerly P25)

This course focuses on the current scientific understanding, research, controversies, issues, and processes involved in human health and health-related professions.

S26 Botany

This course involves the study of the structure, properties, and biochemical processes of plant life and the vegetable kingdom. The student will study a variety of topics which may include: the growth, reproduction, anatomy, morphology, physiology, biochemistry, taxonomy, genetics, and ecology of plants. (Formerly P26)

S27 Neuropsychology (Formerly P27)

This course combines psychology and neurology. It focuses on the structure and function of the brain and its relationship to psychological processes and behavior. Laboratory activities reinforce concepts and principles presented in the course.

S28 Neurobiology

This course combines biology and neuroscience and focuses on the nervous system and the organization of cells into functional circuits that process information and mediate behavior. Laboratory activities reinforce concepts and principles presented in the course. (Formerly P28)

S29 Ecology (Formerly P29)

Ecology is the study of how living things, plant and animal, interact with their environment. Students will study a variety of issues which could include: environmental problems, ecological principles, and sustaining biodiversity. Laboratory activities reinforce concepts and principles presented in the course.

S30 Zoology

Zoology is the study of animals, their adaptations, anatomy, physiology, habitat, and interactions. Laboratory activities and/or simulations reinforce concepts and principles presented in the course. (Formerly P30)

S31 Genetics

This course introduces the basic fundamentals of genetics and their application to contemporary issues. Major topics include DNA structure and replication, the chromosomal basis of inheritance, protein synthesis, and genetic engineering. Special topics may include human development, cloning, stem cell research, DNA fingerprinting, genetic basis of disease, agricultural crop breeding, reproductive technologies, and the conservation of genetic diversity in nature. Laboratory activities and/or simulations reinforce concepts and principles presented in the course. (Formerly P31)

Earth Sciences

S40 Basic Earth Science

In this course, students are introduced to the structure, processes, and interactions of the Earth and other objects in space. Laboratory and field activities reinforce concepts and principles presented in the course. (Formerly P40)

S41 Earth Science

This course provides the opportunity to develop an advanced understanding of the structure, processes, and dynamics of the Earth and other objects in space. Laboratory and field activities reinforce concepts and principles presented in the course. (Formerly P41)

S42 Global Science

Global Science is an inquiry-oriented course concerning the planet Earth and the dynamic relationship between its physical and life systems. Laboratory activities reinforce concepts and principles presented. (Formerly P42)

S43 Astronomy

This course provides the opportunity to develop knowledge and understanding about our planet, our solar system, galaxy, and universe. Areas of study may include: the process of science, including use of the tools used to observe the sky; stellar astronomy and how stars change over time; and planetary astronomy and how interstellar spacecraft are obtaining information about other bodies in the solar system. (Formerly P43)

S44 Geology

This course focuses on the structure and dynamic forces of the Earth's lithosphere. Laboratory and field activities reinforce concepts and principles presented in the course. (Formerly P44)

S45 Oceanography

This course is an introduction to the world ocean. Topics may include: marine geology, plate tectonics, oceanic circulation, the fundamental physical and chemical properties of seawater, atmospheric-oceanic relationships, marine environments, and productivity. (Formerly P45)

Physical Science Lab Electives

S-PHY1 Velocity Topics

This is a course that focuses on velocity, how velocity relates to mass, and velocity as a component of momentum. (Formerly PHY1)

S-PHY2 Acceleration

This course examines acceleration vs. constant velocity, rightward vs. leftward, and "passing lane" experiments. (Formerly PHY2)

S-PHY3 Newton 1

This course is a study of the first of Newton's laws on inertia. (Formerly PHY3)

S-PHY4 Newton 2

This course is a study of Newton's second law and the relationship of mass to force. (Formerly PHY4)

S-PHY5 Projectiles

This class focuses on the physical properties and laws at play with thrown horizontal projectiles as contrasted with the launching of vertical projectile. (Formerly PHY5)

S-PHY6 Newton 3

In this course, students study topics in equal and opposite reaction. (Formerly PHY6)

S-PHY7 Work and Energy

In this course, students study how energy is conserved, and paths requiring most vs. least energy. (Formerly PHY7)

S-PHY8 Orbital and Circular Motion

This is an introductory course in angular orbital momentum, using the curvature of spheres. (Formerly PHY8)

S-PHY9 Hawking's Universe

This is Socratic-style course on topics related to the universe, based on the writings of Stephen Hawking and other scientists. (Formerly PHY9)

S-PHY10 Introduction to Sub-particles

This is an introductory course on sub-particles based on learning and playing the lab-generated game, "Neutrino." (Formerly PHY10)

S-PHY11 Circuits (Formerly PHY10)

In this hands-on course, students build a layered circuit and learn about placing via holes, lamination and de-lamination issues, and the importance of aspect ratios.

S-PHY12 Reflection

This course is the study of mirrors, the center of curvature, concave vs. convex, focal points, and the object beyond the center of curvature. (Formerly PHY12)

S-PHY13 Physics for Musicians

Students study the 1st through the 5th harmonic. Studies include reflection of pulse at a fixed end, reflection of pulse at a free end, standing wave formation on a string, and two point source interference patterns. (Formerly PHY13)

S-PHY14 Fun with Numbers

This is a number by number look at the weird characteristics of each number in a zero through nine set. (Formerly PHY14)

S-PHD1 Physics for Baseball Players

In this course, students analyze the tangent line strategy and the derivatives associated with hitting a baseball as well as other applications. (Formerly PHD1)

S-PHD2 Angular Orbital Momentum

In this class, students experiment with angular orbital momentum. Appropriate for college-bound students planning to study in the sciences. (Formerly PHD2)

S-PHD3 Global Information Systems

This is a hands-on course in Global Information Systems and Global Positioning System-based studies of geographic areas. (Formerly PHD3)

Science Electives

S50 Human Perception (Formerly P50)

This course focuses on the relationship between sensation and perception in humans. Laboratory activities reinforce concepts and principles presented in the course.

S51 Survey of Biochemistry

This course focuses on the relationships between the structure and properties of biological compounds. Laboratory activities reinforce concepts and principles presented in the course. (Formerly P51)

S52 Controversies in Science

This course focuses on current debates in scientific literature. Students will explore both sides of specific topics and argue positions. (Formerly P52)

S53 Science & Public Policy

This course focuses on the juncture between scientific knowledge and public policy. Students will investigate the ways in which contemporary public policy is influenced by the current state of scientific knowledge. (Formerly P53)

S54 Chaos & Complexity

In this course, the student examines the distinction between deterministic and chaotic systems, the history of determinism, and the study of chaos and complexity theory. (Formerly P54)

S55 Research Seminar in Science

In this course, highly motivated students identify their own topics for authentic research, read relevant scientific literature, create testable hypotheses, design studies, analyze data, discuss results, and state clear conclusions. (Formerly P55)

S56 Future Issues in Science

In this course, the student will explore the promises, uses and abuses of emerging technology in the field of science. Students use technology to research and assess the impact of a scientific breakthrough. (Formerly P56)

S57 Future Issues in Biotechnology

In this course, the student will explore the promises, uses and abuses of genetic engineering and other exciting new technologies that are currently emerging. Students use technology to research and assess the impact of a scientific breakthrough. (Formerly P57)

S90 Independent Study Science (Formerly P90)

MATH

M = Transcript Code; Formerly N Code

MATH REQUIREMENTS: 25 credits (N=transcript code)

Basic Level Math

M03 Pre-Algebra

This course is the study of rational numbers and proportions, introduction to statistics and probability, units conversion, basic geometry, introduction to algebraic symbolism and concepts, and the relationships among fractions, decimals and percents. (Formerly N03)

M04 Problem Solving In Math

This course is designed around problem solving, critical thinking, and written and oral communication. Strategies of problem solving are covered, including diagram techniques, systematic lists, matrix logic, and patterns. (Formerly N04)

M05 Practical Math

This course prepares the student mathematically for the workforce by focusing on arithmetic operations involving whole numbers, fractions, percentages, measurement, ratios, basic graphing, and the application of mathematical functions in work-related situations. (Formerly N05)

M06 Applied Math

This course focuses on the mathematical skills students will encounter throughout the regular routine in their lives. Specific course content is made relevant to each student's personal circumstances, and the student applies skills learned to real life situations. (Formerly N06)

Algebra 1

M10 Basic Algebra 1

Basic Algebra 1 is the study of algebraic symbolism, systems of equations, graphing, problem solving, probability, and statistics. (Formerly N10)

M11 Algebra 1

Algebra 1 is the study of algebraic symbolism, first degree equations & inequalities, polynomials, factoring, exponential and radical expressions, quadratic equations, systems of equations, graphing, probability, and statistics. (Formerly N11)

M12 Algebra 1 Advanced

This course is more in-depth than the regular Algebra 1 in its study of algebraic symbolism, first degree equations and inequalities, polynomials, factoring, exponential and radical expressions, quadratic equations, systems of equations, graphing, probability, and statistics. (Formerly N12)

Algebra 2

M13 Basic Algebra 2

Basic Algebra 2 parallels Algebra 2 but is less rigorous. It covers functions, quadratics, systems of equations in 3 variables, rational functions, conic sections, as well as radical, exponential, and logarithmic equations. (Formerly N13)

M14 Algebra 2

Algebra 2 is the continued study of Algebra I. It focuses on functions, quadratics, systems of equations in 3 variables, rational functions, conic sections, as well as radical, exponential, and logarithmic equations. (Formerly N14)

M15 Algebra 2 Advanced

Algebra 2 Advanced will cover the concepts of Algebra 2 with more emphasis on theory, structure, and applications. The students will study functions, quadratics, systems of equations in 3 variables, rational functions, conic sections, as well as radical, exponential, and logarithmic equations. (Formerly N15)

Geometry

M30 Basic Geometry

This course covers the same topics as regular geometry in a less rigorous manner. There is an emphasis on practical applications. (Formerly N30)

M31 Geometry

Geometry is the study of 2- and 3-Dimensional shapes. It covers the topics of constructions with a compass and straight-edge, polygons and circles, area and volume, the Pythagorean Theorem and the trigonometry of right triangles, formal proofs as well as transformations, symmetry, and similarity. (Formerly N31)

M32 Applied Geometry

This course focuses on real-life applications of basic geometric shapes, using linear, angular, circular, area and volume measurements, and understanding the application of two and three dimensional geometry. (Formerly N32)

Advanced Math Courses

M50 Discrete Math

Discrete Mathematics is an upper level course that allows for the study of advanced topics not covered in other mathematics courses and which are not sequential in nature. Topics may include math applications, sequences and series, trigonometry, matrices, math history, and other topics of interest. (Formerly N50)

M51 Pre-Calculus 1/Trigonometry

Pre-Calculus/Trigonometry is the study of polynomial functions, rational functions, logarithmic and exponential functions, trigonometric functions and its applications, and the polar coordinate system and its applications. (Formerly N51)

M53 Calculus AB

This is for students with superior motivation and ability in mathematics. Calculus AB examines the theory of limits, differentiation, functional analysis, and integration. Students develop problem-solving skills through application. (Formerly N53)

M54 Calculus BC

Calculus BC involves further application of differentiation and integration. It also includes polar coordinates, differential equations, infinite series, and integration techniques. Successful students may take advanced placement exams and possibly receive college credit. (Formerly N54)

M55 Statistics

This course will explore the analysis of data and make use of graphical and numerical techniques to study patterns and departures from patterns. An emphasis will be placed on interpreting information from graphical and numerical displays and summaries. (Formerly N55)

Math Tutorial & Independent Study

M89 Intensive Math Tutorial

This course focuses on the identification, through formal assessment, and consequent closure of each student's gaps related to math knowledge and skills. Students learn and reinforce through the newly acquired knowledge and skills through practice. (Formerly N89)

M90 Independent Study Math (Formerly N90)

WORLD CULTURES AND LANGUAGES

F = Transcript Code

CULTURES & LANGUAGES REQUIREMENT: 5 credits

Spanish

F01 Spanish 1

In this course, the student builds a foundation of basic vocabulary and learns essential structures of the Spanish language. The student learns basic conversational skills, including greetings and introductions, simple questions and answers.

F02 Spanish 2

In this class the student continues their studies in the Spanish language, as they build on the vocabulary and essential language structure learned in Level 1. The student learns to converse in various social environments and gains sophistication of social interactions.

F03 Spanish 3

In this class, the student continues their studies in the Spanish language as they expand the extent of written and conversational skills learned in Levels 1 and 2. The student learns to share ideas and opinions, as well as to express feelings and discuss interests.

F04 Conversational Spanish

In this course, the student increases skills associated with speaking and listening in the Spanish language. The student practices grammar, vocabulary, and customary expressions that will aid in performing daily activities such as meeting with friends, making appointments, and traveling.

F05 Central/South American Linguistic Experience

This course involves the study of contrastive linguistics, cultural differences, linguistic analysis, & methodological issues related to languages of Central and South America.

F06 Central/South American Cultural Studies

This course is an interdisciplinary introduction to the culture of Central America and South America. The student learns about the history, literature, and art of the Latin American people.

F07 Concentrated Latin American Literature

In this class, the student reads complete pieces of literature by Latin American writers and about Latin American themes and culture.

French

F10 French 1

In this class, the student builds a foundation of basic vocabulary and learns essential structures of the French language. The student learns basic conversational skills including greetings and introductions as well as simple questions and answers.

F11 French 2

In this class, the student continues their studies in the French language, as they build on the vocabulary and essential language structure learned in Level 1. The student learns to converse in various social environments and gain sophistication of social interactions.

F12 French 3

In this class, the student continues their studies in the French language as they expand the extent of written and conversational skills learned in Levels 1 and 2. The student learns to share ideas and opinions, as well as to express feelings and discuss interests.

F13 Conversational French

In this course, the student increases skills associated with speaking and listening in the French language. The student practices grammar, vocabulary, and customary expressions that will aid in performing daily activities such as meeting with friends, making appointments, and traveling.

German

F20 German 1

In this class, the student builds a foundation of basic vocabulary and learns the essential structures of the language. The student learns basic introductions, and simple questions and answers.

F21 German 2

In this class, the student continues their studies in the German language as they build on the vocabulary and essential language structure learned in Level 1. The student learns to converse in various social environments and gain sophistication of social interactions.

F22 German 3

In this class, the student continues their studies in the German language as they expand the extent of written and conversational skills learned in Levels 1 and 2. The student learns to share ideas and opinions, as well as to express feelings, and discuss interests.

F13 Conversational German

In this course, the student increases skills associated with speaking and listening in the German language. The student practices grammar, vocabulary, and customary expressions that will aid in performing daily activities such as meeting with friends, making appointments, and traveling.

Italian

F30 Italian Language and Literature

In this class, the student learns vocabulary and language structure of Italian through reading, writing and speaking. The student reads complete pieces of Italian literature. They also learn various social interactions, share ideas and opinions, express feelings, and discuss interests.

F31 Italian Studies

This course is an interdisciplinary introduction to the culture of Italy. The student learns about the history, literature, and art of the Italian people.

F32 Advanced Italian Studies

This course is a continuation of F31. The student continues to develop a more sophisticated understanding of the history, literature, and art of Italy.

F33 Advanced Placement in Italian (Advanced Placement)

This course prepares the student for the Italian Advanced Placement exam. The student will study written and oral language, literary works, and write essays to demonstrate an understanding of Italian.

F34 Italian 1

In this class, the student builds a foundation of basic vocabulary and learns the essential structures of the language. The student learns basic introductions, and simple questions and answers.

F35 Italian 2

In this class, the student continues their studies in the Italian language as they build on the vocabulary and essential language structure learned in Level 1. The student learns to converse in various social environments and gain sophistication of social interactions.

F36 Italian 3

In this class, the student continues their studies in the Italian language as they expand the extent of written and conversational skills learned in Levels 1 and 2. The student learns to share ideas and opinions, as well as to express feelings and discuss interests.

F37 Conversational Italian

In this course, the student increases skills associated with speaking and listening in the Italian language. The student practices grammar, vocabulary and customary expressions that will aid in performing daily activities such as meeting with friends, making appointments, and traveling.

American Sign Language

F40 American Sign Language 1

In this class, the student studies the basics of American Sign Language. The course focuses on conversational language. The student builds a foundation of basic vocabulary and learns the essential structures of the language.

F41 American Sign Language 2

In this class, the student continues their studies in American Sign Language as they build on the vocabulary and essential language structure learned in Level 1. The student learns to converse in various social environments and gain sophistication of social interactions.

F42 American Sign Language 3

In this class, the student continues their studies in American Sign Language as they expand the extent of skills learned in Levels 1 and 2. The student learns to share ideas and opinions, as well as to express feelings, and discuss interests.

World Culture & Language Electives

F50 ESL Mentorship

In this course, the student volunteers and assists with emerging English Language Learners who are learning conversational English.

F51 Service Learning: Language

The dominant language of communication must be a language other than English as a student voluntarily participates in an organized service experience that meets a community need. The experience may be local or in the context of a travel experience.

F52 Survey of World Cultures

In this course, the student examines aspects of several cultures from around the world. Studies may focus on human movement and exchange, languages, customs, arts, humanities, and sciences.

F53 Regional Study Cultures

In this course, the student examines the culture or cultures from one region in the world. Studies may include human movement and exchange, languages, customs, arts, humanities, and sciences.

F54 Comparative World Cultures

In this course, the student compares and contrasts a limited number of world cultures. Studies may include human movement and exchange, languages, customs, arts, humanities, and sciences.

F90 Independent Study World Language

HEALTHY LIVING

K = Transcript Code

HEALTHY LIVING REQUIREMENTS: 20 credits

Active Living = 10 credits

Safety & Health = 10 credits

Active Living

K01 Exercise

This course focuses on safety, skills, strength development, and aerobic training associated with various types of exercise. Students apply these skills and training principles to relieve stress, improve physical and mental health, and develop a life-style of wellness. Students will track and log activities to be submitted for credit.

K02 Bicycling

This course focuses on safety, skills, strength development, and aerobic training associated with bicycling. Students apply these skills and training principles to relieve stress, improve physical and mental health, and develop a life-style of wellness. Students will track and log activities to be submitted for credit.

K03 Dance

This course focuses on skills, coordination, rhythm, and technique associated with dance. Students apply these skills and training principles to relieve stress, improve physical and mental health, and develop a life-style of wellness. Students will track and log activities to be submitted for credit.

K04 Fishing

This course focuses on safety, skills, and technique associated with fishing. Students apply these skills and training principles to relieve stress, improve physical and mental health, and develop a life-style of wellness. Students will track and log activities to be submitted for credit.

K05 Golf

This course focuses on skills, coordination, strength development, and technique associated with playing golf. Students apply these skills and training principles to relieve stress, improve physical and mental health, and develop a life-style of wellness. Students will track and log activities to be submitted for credit.

K06 Group Athletic Activities

This course focuses on safety, skills, coordination, group dynamics, and techniques associated with group athletic activities. Students apply these skills and training principles to relieve stress, improve physical and mental health, and develop a life-style of wellness. Students will track and log activities to be submitted for credit.

K07 Jogging/Running

This course focuses on safety, skills, strength development, and aerobic training associated with jogging and running. Students apply these skills and training principles to relieve stress, improve physical and mental health, and develop a life-style of wellness. Students will track and log activities to be submitted for credit.

K08 Martial Arts

This course focuses on safety, skills, coordination, strength development, balance, control, and technique associated with martial arts. Students apply these skills and training principles to relieve stress, improve physical and mental health, and develop a life-style of wellness. Students will track and log activities to be submitted for credit.

K09 Personal Fitness

This course focuses on safety, knowledge, skills, aerobic training, strength development, and long-term planning and training associated with personal fitness. Students apply these skills and training principles to relieve stress, improve physical and mental health, and develop a life-style of wellness. Students will track and log activities to be submitted for credit.

K10 Self Defense

This course focuses on safety, skills, strength development, control, and techniques associated with self defense. Students apply these skills and training principles to protect one self, relieve stress, and support mental health. Students will track and log activities to be submitted for credit.

K11 Yoga

This course focuses on the coordination, balance, control, and relaxation and meditation techniques associated with yoga. Students apply these skills and training principles to relieve stress, improve physical and mental health, and develop a life-style of wellness. Students will track and log activities to be submitted for credit.

K12 Weight Training

This course focuses on safety, knowledge, skills, strength development, and training associated with weight training. Students apply these skills and training principles to relieve stress, improve physical and mental health, and develop a life-style of wellness. Students will track and log activities to be submitted for credit.

K13 Walking

This course focuses on safety, skills, strength development, and aerobic training associated with rigorous walking as conditioning. Students apply these skills and training principles to relieve stress, improve physical and mental health, and develop a life-style of wellness. Students will track and log activities to be submitted for credit.

K14 Alpine Skiing

This course focuses on safety, skills, technique, strength development, and training associated with alpine skiing. Students apply these skills and training principles to relieve stress, improve physical and mental health, and develop a life-style of wellness. Students will track and log activities to be submitted for credit.

K15 Snowboarding

This course focuses on safety, skills, technique, strength development, and training associated with snowboarding. Students apply these skills and training principles to relieve stress, improve physical and mental health, and develop a life-style of wellness. Students will track and log activities to be submitted for credit.

K16 Nordic Skiing

This course focuses on safety, skills, strength development, techniques, and training associated with Nordic skiing. Students apply these skills and training principles to relieve stress, improve physical and mental health, and develop a life-style of wellness. Students will track and log activities to be submitted for credit.

K17 Swimming

This course focuses on safety, skills, strength development, and training associated with swimming. Students apply these skills and training principles to relieve stress, improve physical and mental health, and develop a life-style of wellness. Students must swim while attended by a lifeguard and will track and log activities to be submitted for credit.

K18 Rock Climbing

This course focuses on safety, skills, strength development, and training associated with rock climbing. Students apply these skills and training principles to relieve stress, improve physical and mental health, and develop a life-style of wellness. Students must climb under expert supervision and will track and log activities to be submitted for credit.

K19 Hiking 1

This course focuses on safety, skills, strength development, and training associated with hiking. Students apply these skills and training principles to relieve stress, improve physical and mental health, and develop a life-style of wellness.

K20 Hiking 2

This course focuses on safety, skills, strength development, and training associated with hiking. Students apply these skills and training principles to relieve stress, improve physical and mental health, and develop a life-style of wellness.
Prerequisite: Hiking 1.

K90 Independent in Healthy Living

Safety and Health

K50 Understanding Risk and Resiliency

In this class, the student learns about the causes and possible consequences of behaviors that may jeopardize an adolescent's health and safety.

K51 How to Help a Friend

The student learns information and skills to keep one another safe, as well as how to communicate effectively, intervene, and access professional assistance in crisis situations.

K52 Studies in Disease

This course focuses on various risk factors and the types and causes of diseases, as well as how various types of diseases spread, how to prevent infection, and how to educate others regarding disease mitigation.

K53 Human Sexuality

This research-based course focuses on issues regarding human growth and development, gender and sexual orientation, sexually transmitted diseases, contraception and birth control, responsible decision making, and interpersonal communication skills.

K54 Health-Related Goals and Decisions

In this course, instruction and activities are designed to help the student set personal goals and develop action plans that promote good health and motivate the student to support these goals with behaviors.

K55 Community & Global Health

This course is a topical and research based study of health-related issues faced by our community, nation, and global community.

K56 Wellness

In this course, the student learns how nutrition, sleep, stress management, physical activity, mindfulness, and mental health interrelate to support wellness. The student learns how to advocate for conditions that support and promote life-long wellness.

K57 Research: Health Topics

The student designs an independent research-based study regarding one or more health related topics of personal interest.

K58 Health Experience

The student participates as a volunteer in a health-related, professionally supervised, off-campus experience. The experience may be local or in the context of a travel experience.

K59 Health Internship

The student voluntarily works under professional supervision in a health-related organization. The student maintains regular hours at the internship placement, is subject to periodic review by the on-site supervisor and keeps a record of activities.

K60 Health Mentorship

The student meets regularly with a carefully selected mentor, who is skilled in a health-related field. The student keeps a record of activities.

K61 Nutrition

This course focuses on food preparation techniques, nutrition basics, balanced diet, meal planning, and how good food nourishes the body.

K62 First Aid and CPR

The student receives training from a certified instructor in basic first aid and cardio pulmonary resuscitation. Students who complete the course successfully receive certification.

K63 Advanced First Aid

The student engages in advanced study and practice related to first aid training, beyond the knowledge and skills learned in K62. The course is taught by a certified trainer and includes in-depth or specialized first aid-related training.

K64 Healthy Relationships

Students will understand the basics of relationship dynamics and communication, including family dynamics, maintaining healthy friendships, as well as learning healthy dating skills.

K65 Understanding Emotional & Mental Health

Students will learn the various influences on mental health and wellness, as well as understanding the effects of stress. Students will be introduced to topics covering mental illness including disorders, eating disorders, and suicide. Students will gain valuable tools for coping with stress, as well as resources for supporting mental health.

K66 Human Growth & Development

Student will study the cognitive, psycho-social and bio-social aspects of human development starting at prenatal development and birth, to adolescence, young adulthood, middle adulthood, and late adulthood to death and dying.

K67 Living Skills

To create a foundation for a healthy future beyond high school, students learn the fundamentals of living independently. Topics include: seeking, obtaining and keeping job, finding and paying for a place to live, paying for a car, budgeting, shopping, paying bills, earning good credit, and other skills necessary for living independently. Student and teacher will create post-secondary goals and develop a plan for the student to reach those goals. (Same as E07 Living Skills. May be repeated.)

K90 Independent Study in Healthy Living

FINE ARTS & MUSIC; PRACTICAL ARTS

A = Transcript Code

REQUIREMENT: 5 credits

Fine Arts

A01 Pottery

This course focuses on the materials, methods, techniques, and process involved with creating pottery as art.

A02 Sculpture

This course focuses on the materials, methods, techniques, and process involved with creating sculpture as art.

A03 Crafts

This course focuses on the materials, methods, techniques, and process involved with creating crafts as art.

A04 Drawing/Painting

This course focuses on the materials, methods, techniques, and process involved with creating drawing and painting as art.

A05 Photography

This is a course in photography for students who want to learn about cameras and the craft of picture taking. The student learns fundamental photographic techniques and the principles of design and composition.

A06 Jewelry

This course focuses on the materials, methods, techniques, and process involved with creating jewelry as art.

A07 Art Appreciation

This course is designed to provide an overview of the arts and appreciation of art criticism, as well as the interpretation of art throughout history and in contemporary times.

A08 Art History

This course focuses on the visual arts as they developed through the ages. Studies include cultural influences and the development of art-related technology.

A09 Studio Art

In this course, the student uses conventional materials and techniques and demonstrates proficiency at creating art from specific media.

A10 Renaissance Art

This course focuses on the achievements of the great late 15th and early 16th Century European artists and the development of their sculpture, painting, and architecture.

A11 Architectural Studies

This course introduces the major movements and developments of architecture in various cultures and over time, with an emphasis on contemporary American architecture.

A12 Art of the Western World

This course surveys the arts of Europe and the Americas. Studies focus on the visual expressions as evidence of changing Western cultures over time.

A13 Art of the Eastern World

This course surveys the arts of Asia. Studies focus on the visual expressions as evidence of changing Eastern cultures over time.

A14 Native American Art

This course surveys the arts of the tribes, nations and great cultures of the indigenous American peoples. Studies focus on the visual expressions and practical uses of art as evidence of these changing cultures over time.

A15 Art in the Community

In this class student explore a variety of art forms in the community. Such art forms may include painting, three-dimensional art, music, dance, theater, etc.

Music

A20 Piano

This course is designed for keyboard instruction. Credit may be given to those students who study within the community. Students document lessons, practice, and performance time for credit.

A21 Guitar

This course is designed for the student, taking private guitar lessons, who is focusing on increasing musical knowledge and improving technical skills. All lessons, practice time, and performances are documented for credit.

A22 Choir

This course involves studying, rehearsing and performing group-oriented vocal music while increasing musical knowledge and improving technical and performance skills. Lessons, practice time, and performances are documented for credit.

A23 Band

This course focuses on studying, rehearsing and performing group-oriented instrumental music. Goals include increasing musical knowledge and improving technical and performance skills. Lessons, practice time, and performances are documented for credit.

A24 Music Theory

This course provides the student with the fundamentals of music theory, concepts of melody, rhythm and harmony, as well as an understanding of musical structure, form, including composition and analysis.

A25 Music Appreciation

In this course, the student listens to and studies a wide variety of musical styles and learns important concepts that underscore the study of music history.

A26 History of Western Music

In this course, the student explores the development of Western musicians and their music as a reflection of various time periods.

A27 Music Composition

In this course, the student learns how to combine tones and rhythms to create a melody and how to add chords to compose musical pieces.

A28 Voice Lessons

This course is designed for the student taking private voice lessons to increase musical knowledge and improve technical skills. Lessons, practice times, and performances are documented for credit.

A29 Music Performance 1

The student performs solo or group-oriented music, in vocal or instrumental genre. Professionalism, stage presence, and performance techniques are stressed.

A30 Music Performance 2

The student performs solo or group-oriented music, in vocal or instrumental genre. Professionalism, stage presence, and performance techniques are stressed. This class is a continuation of Music Performance 1.

Practical Arts

A40 Web Design 1

The focus of Web Design is on learning how to design multidimensional web sites. This class is for students with a keen desire to learn how to create effective websites around a specific purpose and focus.

A41 Web Design 2

Students improve their design skills and their understanding for creating effective, content and media-rich websites with purpose and focus.

A42 Graphic Design 1

The student learns the fundamentals of design and color theory and applies them by designing practical products like flyers, posters, brochures, cards, and CD covers.

A43 Applied Graphic Design

The student applies more advanced principles of design and color and creates practical products.

A44 Digital Art

The student creates works of art using the digital manipulation of photographs as well as computer painting and drawing programs. New media animation and multimedia techniques will also be explored.

A45 Digital Photography

The student uses a digital camera to learn photographic techniques as well as principles of design and composition. The student then creates works of art using the digital manipulation of photographs.

A46 Promotion

The student learns the fundamentals of promoting oneself (examples: as an artist or musician).

A47 The Business of Music

The student learns the fundamentals of band management, promotion, concert and CD production, and booking performances.

A90 Independent Study Fine Art**A91 Independent Study Music****A92 Independent Study Practical Arts**

EXPERIENCES

E = Transcript Code

EXPERIENCE REQUIREMENTS: 20 credits

Practical Experiences	=	5 credits
Computer Technology	=	5 credits
Community Experiences	=	5 credits
Business	=	5 credits

Practical Experiences

E01 Personal Development

This class helps the student establish realistic personal and educational goals relevant to individual needs. The student evaluates his or her own learning styles, decision-making processes, strengths and weaknesses, and behavioral progress toward achieving the goals.

E02 Transitions

This introductory class helps the new student explore interpersonal skills and promote individual interests. The curriculum promotes self-respect, respect towards others, communication skills, listening skills and excitement for learning and includes research, class participation, and discussions on a variety of topics of high interest to teens.

E03 Adolescent Challenges

This course focuses on goal setting, effective and honest communication, conflict resolution, positive relationships, healthy lifestyles, and other challenges that teenagers face while attempting to make healthy personal and educational choices.

E04 Finding Meaning

The student evaluates Victor Frankl's theories regarding how one finds meaning, redirects stress, and creates values, as outlined in *Man's Search for Meaning*. The student then creates personally relevant theories and applies them to his own life circumstances.

E05 Problem Solving

In this project-based course, the student learns how to formulate vital questions regarding a problem, gather and assess relevant information, think open-mindedly, develop possible solutions and well-reasoned conclusions, and how to communicate effectively with others regarding the problem-solving process.

E06 Developmental Assets

This course uses the 40 Assets model to examine how support, empowerment, boundaries, expectations and constructive use of time influence young people in becoming healthy, caring, resilient, and responsible young adults.

E07 Living Skills (Formerly E10)

To create a foundation for a healthy future beyond high school, students learn the fundamentals of living independently. Topics include: seeking, obtaining and keeping job, finding and paying for a place to live, paying for a car, budgeting, shopping, paying bills, earning good credit, and other skills necessary for living independently. Student and teacher will create post-secondary goals and develop a plan for the student to reach those goals. (Same as K67 Living Skills. May be repeated.)

E08 Building Social Capital

This course focuses on how an individual's interaction with social groups helps to build a stronger community and strengthen the individual. The student applies this theory by becoming actively involved in formal groups inside and outside of the school.

E09 Teen Issues

The student acquires sound, research-based information and develops skills through the evaluation of his role in the family and community related to power and control, responsibility for personal success, and contribution to the group.

E10 Leadership

The student examines the development of leadership capacity to maximize the potential of a group. Emphasis is on sharing leadership based on areas of need and expertise.

E11 Work Experience

The student may work in a variety of areas, such as fast food, sales, businesses, corporations or education, and contracts with the school counselor to earn credits. The student completes the guidelines for work experience and submits pay stubs.

Students work 20 hours to earn one (1) credit, not to exceed 25 credits.

E12 Personal Mentorship Experience

The student meets on a periodic basis with a carefully selected mentor, who may be a member of the community, a business, service organizations, etc. The student keeps a record of experiences.

E13 Student as the Mentor

The student receives specific training and then earns credit for meeting in the designated role as a mentor on a periodic basis with another student. The mentor keeps a journal that records experiences in the leadership capacity.

E14 Child Development I

This course is an introduction to the study of the physical, emotional, social, and cognitive development of children.

E15 Child Development II

This course involves the practical application of the child development studies the student has learned in the course Child Development I (E14).

E16 Life Management

This course focuses on the development of a successful management of daily life.

E17 Parenting Skills

This course is an introduction to the skills and resources useful when parenting a child.

E18 Personal Growth and Development

In this class, the student assesses personal needs, strengths, and weakness. The student develops plans of action to overcome obstacles to success and to attain desirable and personally valuable goals.

E19 Trade Preparation 1

The student learns skills related to construction trades, from certified trainers accredited by the National Center for Construction Education and Research. Skills include safety, industry standards of a "core curriculum" required in all trades, additional skills from hands-on training from masters in a specific trade, and preparation of a working resume for use when applying for a job.

E20 Trade Preparation 2

After completion of Trade Preparation 1, students may earn additional credit to study for and obtain an OSHA 11-hour card, and certified training in CPR and First Aid.

E21 Introduction to Military Service

This course is an introduction to research the implications, requirements, benefits, and responsibilities of enrolling in the United States Military.

E22 Activism

The student becomes involved in on on-going activity to support a social, political, or cultural cause. To receive credit, the student must act within the law at all times, work with a mentor in a field associated with the activity, study the history of the issue, keep a journal of activities, and demonstrate how the student's activities were intended to improve society.

E23 Metacognition

In this class, the student studies the process of learning, how individuals learn in various environments, and types of learning styles. The student then identifies a topic of personal interest to study and analyses the cognitive process throughout the study.

E24 Advanced Linguistic Studies

The student conducts an in-depth study and demonstrates an advanced ability to effectively use language to learn and remember information and to express ideas to accomplish a specific goal.

E25 Advanced Analytic Studies

The student conducts an in-depth study and demonstrates an advanced ability to effectively analyze problems logically, investigate issues scientifically, reason deductively, and think logically to accomplish a specific goal.

E26 Advanced Spatial Studies

The student conducts an in-depth study and demonstrates an advanced ability to recognize and use patterns to accomplish a specific goal.

E27 Advanced Artistic Studies

The student conducts an in-depth study and demonstrates an advanced ability to recognize, appreciate, and compose visual or musical art using a variety of techniques and tools to accomplish a specific goal.

E28 Advanced Kinesthetic Studies

The student conducts an in-depth study and demonstrates an advanced ability to coordinate the mind and the body, or part of the body, to create movement to accomplish a specific goal.

E29 Advanced Intrapersonal Studies

The student conducts an in-depth study and demonstrates an advanced ability to understand and appreciate how feelings, fears, and motivations can be used to regulate his or her own life.

E30 Advanced Studies in Interpersonal Communication

The student conducts an in-depth study and demonstrates an advanced ability to understand the intentions, motivations, and desires of other people and to use that understanding to work effectively in a leadership role to accomplish a specific goal.

E31 Cooking Beyond Survival

This course focuses on how to cook meals with confidence and creativity. Students learn about balanced menu planning, budgeting, and shopping, use of herbs and spices, and various types of cooking techniques.

E33 Exploring Post Secondary Options

Students explore how to make well-informed decisions in high school to open doors for opportunities in their future. They take assessments and conduct research to find careers that fit their interests and skills. Students explore a variety of post-secondary options, including vocational technical fields, careers, and gap year, as well as college possibilities and may be introduced to college preparation, including financial aid and testing.

E34 Preparation for College

The purpose of this course is to prepare students for post-secondary lives. The student will learn the most important elements of preparing for, applying to and attending college. Subjects include: college admissions requirements, college searching, ACT/SAT testing information, financial aid, and living situations.

E90 Independent Study in Practical Experiences

Computer Technology

E40 Keyboarding

In this course, the student learns to be proficient in word processing, use the Internet for research, to create PowerPoint and spreadsheets, and other practical computer related skills.

E41 Office Skills

In this course, the student learns to be proficient in computer applications commonly used in the business workplace. The student learns applications such as Word, Excel, PowerPoint and other practical computer related skills.

E42 Accounting Software

The student uses computer technology when learning the basic applications of balance sheets, income statements, checkbook reconciliation, trial balance, as well as the meaning of financial statements.

A40 Web Design 1

The focus of Web Design is on learning how to design multidimensional web sites. This class is for students with a keen desire to learn how to create effective websites around a specific purpose and focus.

A41 Web Design 2

Students improve their design skills and their understanding for creating effective, content and media-rich websites with purpose and focus.

A42 Graphic Design 1

The student learns the fundamentals of design and color theory and applies them by designing practical products like flyers, posters, brochures, cards, and CD covers.

A43 Applied Graphic Design

The student applies more advanced principles of design and color and creates practical products.

A44 Digital Art

The student creates works of art using the digital manipulation of photographs as well as computer painting and drawing programs. New media animation and multimedia techniques will also be explored.

A45 Digital Photography

The student uses a digital camera to learn photographic techniques as well as principles of design and composition. The student then creates works of art using the digital manipulation of photographs.

E91 Independent Study in Computer Technology

Business

E50 Personal Finance

This course focuses on how to calculate costs and affordability involved in the purchase, lease or rent of consumer items such as a home, car, furnishings, insurance, and education. The course will also include studies such as budgeting, calculating interest, as well as identifying and obtaining loans.

E51 Investments

In this course, the student learns about the comparative and historical value of money, theories associated with risk and return on investment, types of investments, as well as understanding financial institutions and the monetary-financial system in a modern economy.

E52 Small Business

In this course, the student learns what motivates people to buy, as well as how retailers pick a market and target audience, use media to advertise, and operate to make a profit. The student will create a business plan, design a rationale for a pricing structure, learn how to pay employees, and pay appropriate taxes.

E53 Marketing and Advertising

In this course, the student studies marketing and advertising images, ideas, and economic forces that drive consumer spending.

E54 Fundamentals of Accounting

This is a practical, hands-on course involving the study of real life financial materials. Students will learn the basics of balance sheets, income statements, checkbook reconciliation, trial balance, as well as the meaning of financial statements.

E55 Personal Business

In this course, students learn about setting up bank accounts, checkbook balancing, credit, debit cards, identity theft, rent and mortgage, budgeting, and other aspects of personal business.

H71 Economics

This course is an analysis of the American economic system as it relates to the individual and other economic systems.

E07 Independent Living Skills (Formerly E10 & E56)

To create a foundation for a healthy future beyond high school, students learn the fundamentals of living independently. Topics include: seeking, obtaining and keeping job, finding and paying for a place to live, paying for a car, budgeting, shopping, paying bills, earning good credit, and other skills necessary for living independently. Student and teacher will create post-secondary goals and develop a plan for the student to reach those goals. (Same as K67 Living Skills. May be repeated.)

E92 Independent Study in Business

Community Experiences

E08 Building Social Capital

This course focuses on how an individual's interaction with social groups helps to build a stronger community and strengthen the individual. The student applies this theory by becoming actively involved in formal groups inside and outside of the school.

E13 Student as the Mentor

The student receives specific training and then earns credit for meeting in the designated role as a mentor on a periodic basis with another student. The mentor keeps a journal that records experiences in the leadership capacity.

F50 ESL Mentorship

In this course, the student volunteers and assists with emerging English Language Learners who are learning conversational English.

F60 Service Learning

The student voluntarily participates in an organized service experience that meets a community need. The experience may be local or in the context of a travel experience.

E70 Community Service Experience

The student may engage in community service in an area such as tutoring students, being a teacher's aide at another school, volunteering at a hospital, being a peer counselor at a camp or school, volunteering at a library, cleaning up parks, volunteering for animal protection agencies, volunteering at a senior center, construction for needy, etc. **One (1) credit awarded for each 10 hours of voluntary service.** A maximum of **25** credits May be earned.

E93 Independent Study in Community Experience

PASSAGES

C = Transcript Code

PASSAGE REQUIREMENTS: 10 CREDITS

Presentation	= 2.5 credits
Passage 1	= 2.5 credits
Final Passage/Portfolio	= 5 credits

C01 Presentation

The student works with the teacher in learning different kinds of speeches and presentations to prepare for Catalyst Presentations of Learning and Passages, as well as to prepare them for public speaking in their post-secondary lives (college classes, work presentations, interviews, etc.). The student will learn how to select and research a topic, analyze the audience and effectively deliver presentations.

C02 Passage 1 (2.5 credits)

The student engages in Passage 1 approximately halfway through the Catalyst Studies toward graduation. The student works with a teacher as a coach in the process of assembling a working academic portfolio for a 10-minute presentation to the school. The portfolio includes the analysis of best academic work in at least four subject areas and evidence of reflection on the past and work toward specific goals for the future. It shall include assessment of external and internal assets, discussion of issues related to personal wellness, resiliency and achievement, and an evaluation of the student's personal physical and mental health. The presentation shall be more complex technically than in Passage 1, and it will include at least one example of high productivity and at least two examples of digital age literacy, two examples of inventive thinking and two examples of effective communication. Prerequisite: C01 Presentation.

C03 Final Passage/Portfolio (5 credits)

To coincide with the completion of the other credits required to graduate from Catalyst EDU, the student works with a teacher as a coach in the process of assembling a final academic portfolio for a 15-minute presentation to the school. The portfolio includes the analysis and evaluation of best academic work in at least five subject areas and evidence of action planning and behaviors toward the attainment of specific goals for the future. It shall include examples of deliberate development of assets including commitment to learning, positive values, social competencies, and positive identity. The student shall present current goals and action plans for implementation related to life-long wellness, personal challenge and accomplishment and an evaluation of the student's personal mental, physical, and spiritual health. The presentation shall be more complex technically than in Passage 2, and it shall include at least one example of high productivity and at least three examples of digital age literacy, three examples of inventive thinking and three examples of effective communication. Prerequisite: C02 Passage 2.

