



# Course Catalog

2024-2025

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## CORE

## Kindergarten

Language Arts K A Language Arts K B Math K A Math K B Science K A Science K B Social Studies K A Social Studies K B

#### First Grade

Language Arts 1 A
Language Arts 1 B
Math 1 A
Math 1 B
Science 1 A
Science 1 B
Social Studies 1 A
Social Studies 1 B

#### **Second Grade**

Language Arts 2 A Language Arts 2 B Math 2 A Math 2 B Science 2 A Science 2 B Social Studies 2 A Social Studies 2 B

#### **Third Grade**

Language Arts 3 A Language Arts 3 B Math 3 A Math 3 B Science 3 A Science 3 B Social Studies 3 A Social Studies 3 B

#### **Fourth Grade**

Language Arts 4 A Language Arts 4 B Math 4 A Math 4 B Science 4 A Science 4 B Social Studies 4 A Social Studies 4 B

#### Fifth Grade

Language Arts 5 A Language Arts 5 B Math 5 A Math 5 B Science 5 A Science 5 B Social Studies 5 A Social Studies 5 B

## **ELECTIVE**

#### **Academic Enrichment**

i-Ready Math

i-Ready Reading

## **Information Technology**

Computer Fundamentals

Keyboarding

Minecraft for Kids Command Blocks Scripting

Roblox for Kids

Scratch Coding

## Physical, Health, & Safety Education

Health 1 A

Health 1 B

Health 3 A

Health 3 B

Health 5 A

Health 5 B

Physical Education KA

Physical Education K B

Physical Education 2 A

Physical Education 2 B

Physical Education 4 A

Physical Education 4 B

## **Visual & Performing Arts**

Art Development Level 1

Art Development Level 2

Art Development Level 3

Art Development Level 4

Arts and Crafts K A

Arts and Crafts K B

Arts and Crafts 1 A

Arts and Crafts 1 B

Arts and Crafts 2 A

Arts and Crafts 2 B

Recorders Level 1

## CORE

## **English Language Arts**

Language Arts 6 A

Language Arts 6 B

Language Arts 7 A

Language Arts 7 B

Language Arts 8 A

Language Arts 8 B

## **Mathematics**

Math 6 A

Math 6 B

Math 7 A

Math 7 B

Pre-Algebra A

Pre-Algebra B

#### Science

Science 6 A

Science 6 B

Science 7 A

Science 7 B

Science 8 A

Science 8 B

## **Social Studies & History**

Social Studies 6 A

Social Studies 6 B

Social Studies 7 A

Social Studies 7 B

Social Studies 8 A

Social Studies 8 B

## **ELECTIVE**

## **Academic Enrichment**

i-Ready Math i-Ready Reading Study Skills

## **Business & Marketing**

**Exploring Business** 

## **Career Exploration & Development**

Career Exploration 1: Charting Your Path Career Exploration 2: Find Your Passion

### **Communication & AV Technology**

Journalism: Tell Your Story Tech Apps 6 Tech Apps 7 Tech Apps 8

#### **Health Care Sciences**

**Exploring Health Science** 

## **Information Technology**

Coding 1a: Introduction
Coding 1b: Learning Python and JavaScript
Computer Basics
Exploring Information Technology
Game Design 1a: Introduction
Game Design 1b: Creating a Game
JavaScript Game Design
Javascript Tower Defense
Keyboarding
Roblox Worlds Coding with Lua

## Physical, Health, & Safety Education

Critical Thinking 1a: Introduction Critical Thinking 1b Fitness Health Individual and Team Sports

#### Science

STEM: Tools for the Future

### **Visual & Performing Arts**

2D Studio Art
Animation
Arts Explorations
Basic Drawing
Beginning Painting
Digital Art and Design
Exploring Music
Photography 1a: Introduction
Photography 1b: Drawing with Light

## CORE

## **English Language Arts**

AP® English Language and Composition A

AP® English Language and Composition B

AP® English Literature and Composition A

AP® English Literature and Composition B

Contemporary Novels

Creative Writing: Unleashing the Core of Your

Imagination A

Creative Writing: Unleashing the Core of Your

Imagination B

Language Arts 9 A\*†

Language Arts 9 B\*†

Language Arts 10 A\*†

Language Arts 10 B\*†

Language Arts 11 A\*†

Language Arts 11 B\*†

Language Arts 12 A\*†

Language Arts 12 B\*†

Public Speaking 1a: Introduction

Public Speaking 1b: Finding Your Voice

#### **Mathematics**

Algebra 1 A\*†

Algebra 1 B\*†

Algebra 2 A\*†

Algebra 2 B\*†

AP® Calculus (AB) A

AP® Calculus (AB) B

AP® Calculus (BC) A

AP® Calculus (BC) B

Consumer Math A

Consumer Math B

Geometry A\*†

Geometry B\*†

Math Essentials A

Math Essentials B

Pre-Algebra A<sup>†</sup>

Pre-Algebra B<sup>†</sup>

Pre-Calculus A

Pre-Calculus B

## Science

Anatomy and Physiology 1a: Introduction

Anatomy and Physiology 1b: Discovering Form and

Function

AP® Biology A

AP® Biology B

AP® Chemistry A

AP® Chemistry B

AP® Physics 1 A

AP® Physics 1 B

Biology A\*†

Biology B\*†

Chemistry A\*†

Chemistry B\*†

Earth Science A<sup>†</sup>

Farth Science B<sup>†</sup>

Forensic Science 1: Secrets of the Dead

Forensic Science 2: More Secrets of the Dead

Forensics: The Science of Crime A

Forensics: The Science of Crime B

Paleontology

Physical Science A<sup>†</sup>

Physical Science B<sup>†</sup>

Physics A\*†

Physics B\*†

<sup>†</sup> Has a Credit Recovery (CR) option. See page 16 for details. \*Has an Honors option. See page 17 for details.

## CORE

## **Social Studies & History**

American Government\*†

American History A\*†

American History B\*†

Anthropology 1: Uncovering Human Mysteries

Anthropology 2: More Human Mysteries Uncovered

AP® European History A

AP® European History B

AP® Government and Politics A

AP® Government and Politics B

AP® US History A

AP® US History B

AP® World History A

AP® World History B

Civics<sup>†</sup>

Economics\*†

History of the Holocaust

Human Geography: Our Global Identity

Personal Psychology 1: The Road to Self-Discovery Personal Psychology 2: Living in a Complex World Sociology 1: The Study of Human Relationships

Sociology 2: Your Social Life

World Geography A<sup>†</sup>

World Geography B<sup>†</sup>

World History A\*†

World History B\*†

## **ELECTIVE**

#### **Academic Enrichment**

**ACT Prep** 

Character Education

i-Ready Math

i-Ready Reading

Independent Study

Life Skills: Navigating Adulthood

SAT Prep

Study Skills and Strategies

#### Agriculture, Food, & Natural Resources

Agriscience 1: Introduction

Agriscience 2: Sustaining Human Life A

Agriscience 2: Sustaining Human Life B

Forestry and Natural Resources A

Forestry and Natural Resources B

Principles of Agriculture, Food and Natural

Resources A

Principles of Agriculture, Food and Natural

Resources B

## **Business & Marketing**

Accounting

Advertising and Sales Promotion A

Advertising and Sales Promotion B

Business Communications 1a: Introduction

Business Communications 1b: Listen, Speak, and

Write in the Workplace

Business Information Management 1a:

Introduction

Business Information Management 1b: Data

Essentials

Business Law 1a: Introduction

Business Law 1b: Legal Aspects of Business

Business Ownership 1a: Introduction

Business Ownership 1b: Reach for the Stars

Entrepreneurship 1a: Introduction

Entrepreneurship 1b: Make Your Idea a Reality

Fundamentals of Bitcoin and Cryptocurrency

International Business: Global Commerce in the

21st Century

Management 1a: Introduction

Management 1b: Insight & Oversight

Manufacturing: Product Design and Innovation A

Manufacturing: Product Design and Innovation B

Marketing 2a: Global Business and Trade

Marketing 2b: Developing a Sales Team

Marketing Foundations 1a: Introduction

Marketing Foundations 1b: Building Your Base

Medical Office Administration 1a: Introduction

Medical Office Administration 1b: Vital to the Front

Office

Personal and Family Finance

Principles of Business, Marketing, Finance 1a:

Introduction

Principles of Business, Marketing, Finance 1b:

Targeting Your Business Insight

Professional Sales and Promotion 1a: Introduction

Professional Sales and Promotion 1b: Secrets of

Sales Success

Sports and Entertainment Marketing A

Sports and Entertainment Marketing B

## **ELECTIVE**

## **Career Exploration & Development**

Career Planning

Careers in Criminal Justice 1a: Introduction Careers in Criminal Justice 1b: Finding Your Specialty

Construction: Fundamentals and Careers

High School Career Discovery

Work Experience

Workplace and Internship Readiness: Preparing for Work & Life

## **Communication & AV Technology**

Digital Media Fundamentals 1a: Introduction
Digital Media Fundamentals 1b: Producing for the
Web

Digital Media Web Design 2a: Build a Portfolio Website

Digital Media Web Design 2b: Build an eCommerce Website

Journalism 1a: Introduction

Journalism 1b: Investigating the Truth

Learning in a Digital World: Strategies for Success

Media & Communications
Professional Communication

Social Media: Our Connected World

## **Engineering & Technology**

Applied Engineering 1a: Introduction Applied Engineering 1b: Solving Problems Together

Building Maintenance Technologies I Building Maintenance Technologies II Concepts of Engineering and Technology A

Concepts of Engineering and Technology B

Drones: Remote Pilot Principles of Architecture

Renewable Technologies: Introduction A Renewable Technologies: Introduction B

Robotics 1a: Introduction Robotics 1b: Intelligent Robots Robotics 2a: Design a Robot Robotics 2b: Build Your Robot Wearable Technology Innovations

#### **English Language Arts**

Gothic Literature: Monster Stories
Mythology and Folklore: Legendary Tales
Reading and Writing for Purpose
The Lord of the Rings: An Exploration of the Films
and Their Literary Influences

## **COURSE LIST**

## **ELECTIVE**

#### **Health Care Sciences**

Allied Health Assistant 1a: Introduction

Allied Health Assistant 1b: Skills and Specialties

Biotechnician 1a: Introduction

Biotechnician 1b: Advancements in Biotechnology

Biotechnology 1a: Introduction

Biotechnology 1b: Unlocking Nature's Secrets

Dental Assistant 1a: Introduction

Dental Assistant 1b: Principles of Clinical Dentistry Emergency Medical Responder 1a: Introduction

Emergency Medical Responder 1b: Prepared for

Action

Health Science Foundations 1a: Introduction

Health Science Foundations 1b: Professional

Responsibilities

Health Science: Nursing A

Health Science: Nursing B

Health Science: Public Health

Medical Assistant 1a: Introduction

Medical Assistant 1b: Medical Assisting in Action

Medical Diagnostic Technology 1a: Introduction

Medical Diagnostic Technology 1b: Exploring

Systems & Procedures

Medical Lab Assisting 1a: Introduction

Medical Lab Assisting 1b: Clinical Lab Safety and

Procedures

Medical Terminology 1a: Introduction

Medical Terminology 1b: Discovering Word

**Foundations** 

Nursing Assistant 1a: Introduction

Nursing Assistant 1b: Patient Care

Pharmacology 1a: Introduction

Pharmacology 1b: Analysis and Effects

Sports Medicine 1a: Introduction

Sports Medicine 1b: Injury Prevention

Sports Medicine 2a: Working With Clients

Sports Medicine 2b: Personalizing Your Practice

## **Hospitality & Tourism**

Culinary Arts 1a: Introduction

Culinary Arts 1b: Finding Your Palate

Culinary Arts 2a: Baking, Pastry, and More!

Culinary Arts 2b: Baking, Pastry, and More!

Food Safety

Hospitality and Tourism: Traveling the Globe 1a

Hospitality and Tourism: Traveling the Globe 1b

Hospitality and Tourism 2a: Hotel and Restaurant

Management

Hospitality and Tourism 2b: Hotel and Restaurant

Management

Hotel Management 1A: Introduction

Hotel Management 1B: Exploring the Industry

Restaurant Management

Hospitality and Tourism 2a: Hotel and Restaurant

Management

Hospitality and Tourism 2b: Hotel and Restaurant

Management

#### **Human Services**

Cosmetology 1a: Cutting Edge Styles

Cosmetology 1b: Cutting Edge Styles

Cosmetology 2a: The Business of Skin and Nail

Care

Cosmetology 2b: The Business of Skin and Nail

Care

Cosmetology 3a: Introduction to Hair Skills

Cosmetology 3b: Waving, Coloring, and Advancing

Hair Skills

Early Childhood Education 1a: Introduction

Early Childhood Education 1b: Developing Early

Learners

Human and Social Services 1a: Introduction

Human and Social Services 1b: Introduction

Peer Counseling

Personal Leadership

## **ELECTIVE**

#### Information Technology

Advanced Networking 1a: Introduction Advanced Networking 1b: Protecting Your Network

Augmented and Virtual Reality Applications

Cloud Technologies and the Internet of Things

Computer Maintenance 1a: Introduction

Computer Maintenance 1b: Network Needs

Excel: Office Fundamentals Series

Foundations of Game Design 1a: Introduction

Foundations of Game Design 1b: Storytelling,

Mechanics, and Production

Game Design 2a: Build a World

Game Design 2b: Launch a Game

Game Design for Chromebooks 1a: Introduction

Game Design for Chromebooks 1b: From

Prototype to Product

History of Gaming and Esports

Intro to Java Programming

Introduction to Artificial Intelligence

Introduction to Networking 1a: Introduction

Introduction to Networking 1b: Network Oversight

Introduction to Programming 1a: Introduction

Introduction to Programming 1b: Problem Solving Through Programming

JavaScript

Keyboarding

Network Security Fundamentals 1a: Introduction Network Security Fundamentals 1b: Forensics and

**Permissions** 

Outlook: Office Fundamentals Series

PowerPoint: Office Fundamentals Series

Principles of Information Technology 1a:

Introduction

Principles of Information Technology 1b: Working

with Computers

Programming 2A: Procedural Programming

Programming 2B: Creative Programming

Touch Systems Data Entry: Keyboard Like a Pro

Web Development 1a: Introduction

Web Development 1b: Planning and Designing

Word: Office Fundamentals Series

## **Military Science**

Military Careers: Introduction

#### Physical, Health, & Safety Education

Advanced Athletic Training

Drivers Ed

Health 1: Life Management Skills

Health A

Health B

Personal Fitness

Physical Education A

Physical Education B

## **Public, Protective, & Government Services**

Criminology: Inside the Criminal Mind

Cybersecurity 1a: Foundations

Cybersecurity 1b: Defense Against Threats

Law and Order: Introduction to Legal Studies

Legal Admin Specialist 1a: Introduction

Legal Admin Specialist 1b: Taking Care of the Legal

Office

**National Security** 

Principles of Public Service: To Serve and Protect A

Principles of Public Service: To Serve and Protect B

#### Science

Aeronautics and Space Travel

Astronomy 1a: Introduction

Astronomy 1b: Exploring the Universe

Great Minds in Science: Ideas for a New Generation

Marine Science: Secrets of the Blue A Marine Science: Secrets of the Blue B

Nutrition and Wellness

Space Explorations

Veterinary Science: The Care of Animals

#### **Social Studies & History**

AP Psychology A

AP Psychology B

Archaeology: Detectives of the Past

Philosophy: The Big Picture

## **ELECTIVE**

## **Visual & Performing Arts**

3D Modeling 1a: Introduction 3D Modeling 1b: Set the Scene

Adobe Illustrator Adobe InDesign

Adobe Photoshop

Advanced Drawing

Animation 1a: Introduction

Animation 1b: Animating Your Creativity

Art Appreciation

Art in World Cultures A

Art in World Cultures B

Beginning Piano

Digital Design 1a: Introduction

Digital Design 1b: Express Your Ideas Visually

Digital Photography 1a: Introduction

Digital Photography 1b: Creating Images with

Impact!

Digital Photography 2: Discovering Your Creative

Potential

Fashion Design

Graphic Design

High School Basic Drawing

Interior Design

Music Appreciation: The Enjoyment of Listening

Theater, Cinema, and Film Production 1a:

Introduction

Theater, Cinema, and Film Production 1b: Lights,

Camera, Action!

## **World Languages**

American Sign Language 1a: Introduction

American Sign Language 1b: Learn to Sign

American Sign Language 2a: Communicating

American Sign Language 2b: Advancing

Communication Skills

American Sign Language 3a: Community and

Culture

American Sign Language 3b: Conversations and

Culture

French 1 A

French 1 B

French 2 A

French 2 B

French 3 A

French 3 B

Spanish 1 A

Spanish 1 B

Spanish 2 A

Spanish 2 B

Spanish 3 A

Spanish 3 B

AP® Spanish A

AP® Spanish B

## **CREDIT RECOVERY**

## **English Language Arts**

Language Arts 9 A

Language Arts 9 B

Language Arts 10 A

Language Arts 10 B

Language Arts 11 A

Language Arts 11 B

Language Arts 12 A

Language Arts 12 B

#### **Mathematics**

Algebra 1 A

Algebra 1 B

Algebra 2 A

Algebra 2 B

Geometry A

Geometry B

Pre-Algebra A

Pre-Algebra B

#### Science

Biology A

Biology B

Chemistry A

Chemistry B

Earth Science A

Earth Science B

Physical Science A

Physical Science B

Physics A

Physics B

## **Social Studies & History**

American Government

American History A

American History B

Civics

Economics

World Geography A

World Geography B

World History A

World History B

Credit Recovery (CR) courses are designed for students who have previously taken a course and have not mastered content to earn credit. They are not for students wanting to accelerate, but designed for students that want to graduate on time. Credit Recovery courses are available as two 0.5 credit semester-based courses. Students can take either one semester or the full year course. Students should be able to show that the course was previously taken and not mastered.

## **HONORS**

## **English Language Arts**

Language Arts 9 A

Language Arts 9 B

Language Arts 10 A

Language Arts 10 B

Language Arts 11 A

Language Arts 11 B

Language Arts 12 A

Language Arts 12 B

#### **Mathematics**

Algebra 1 A

Algebra 1 B

Algebra 2 A

Algebra 2 B

Geometry A

Geometry B

#### Science

Biology A

Biology B

Chemistry A

Chemistry B

Physics A

Physics B

## **Social Studies & History**

American Government

American History A

American History B

Economics

World History A

World History B

## **ADVANCED PLACEMENT®**

## **English Language Arts**

AP® English Language and Composition A

AP® English Language and Composition B

AP® English Literature and Composition A

AP® English Literature and Composition B

#### **Mathematics**

AP® Calculus (AB) A

AP® Calculus (AB) B

AP® Calculus (BC) A

AP® Calculus (BC) B

## Science

AP® Biology A

AP® Biology B

AP® Chemistry A

AP® Chemistry B

AP® Physics 1 A

AP® Physics 1 B

## **Social Studies & History**

AP® European History A

AP® European History B

AP® Government and Politics A

AP® Government and Politics B

AP® US History A

AP® US History B

AP® World History A

AP® World History B

AP Psychology A

AP Psychology B

#### **World Languages**

AP® Spanish A

AP® Spanish B



# COURSE DESCRIPTIONS

**Elementary School** 

## KINDERGARTEN

#### Language Arts K A

Introduces letter names, letter sounds, and phonograms, with a focus on letters in the first half of the alphabet and short vowel sounds. Engages students in reading and comprehension strategies through a variety of literature. Presents opportunities to master sight and spelling words through weekly writing assignments.

#### Language Arts K B

Introduces letter names, letter sounds, and phonograms, with a focus on letters in the second half of the alphabet and long vowel sounds. Engages students in reading and comprehension strategies through a variety of literature. Presents opportunities to master sight and spelling words through weekly writing assignments.

#### Math K A

Presents foundational math facts including counting to 12, comparing sizes, ordinal numbers, and basic measurements.

**Required Materials:** Beans or counters, empty egg carton, chalk, mini marshmallows, hole punch, yarn, buttons or beads, pipe cleaners, finger paints

#### Math K B

Presents foundational math facts including counting to 20 and comparing properties of objects. Explores basic geometric shapes and the concepts of first, middle, and last.

**Required Materials:** Beans or counters, empty egg carton, chalk, mini marshmallows, hole punch, yarn, buttons or beads, pipe cleaners, finger paints

#### Science K A

Uses the five senses to explore the world. Experiences include nature walks and gardening. Explores nature by observing animals and camouflage, the seasons, gardening, and magnets.

**Required Materials:** Magnifying glass, charcoal, seeds, iron fillings, nails

#### Science K B

Continues to explore the world by using the five senses. Examines animals and their tracks, astronomy in the winter, shapes in nature, clouds, rainbows, and evaporation. Introduces the growth cycle of a plant, bees and pollination, and frogs.

Required Materials: Bean seeds, garden stakes, magnifying glass

#### Social Studies K A

Introduces communities and the responsibilities of being a member of society. Explores figures of U.S. History such as Pocahontas, George Washington, and Abraham Lincoln. Explains the responsibilities of pet ownership, the importance of rules, proper table manners, and how to eat well.

#### Social Studies K B

Covers map reading skills. Presents symbols of the US and common holidays. Introduces what money is, currency, how money can be spent, and the differences between wants and needs.

## FIRST GRADE

## Language Arts 1 A

Teaches students how to identify, write, and produce sounds of short vowels, r, s, and l blends, sh, th, ch, wh, ph. Covers soft c, g, and dge sounds. Provides opportunities for reading and comprehension through assigned and independent readings. Presents opportunities to master sight and spelling words through weekly writing assignments.

#### Language Arts 1 B

Teaches students how to identify, write, and produce sounds of consonant and vowel blends. Covers hard ck, k, g sounds. Introduces compound words and contractions. Provides opportunities for reading and comprehension through assigned and independent readings. Presents opportunities to master sight and spelling words through weekly writing assignments.

#### Math 1 A

Builds fluency with basic math facts including counting to 100, addition and subtraction, and how to add double-digit numbers. Introduces word problems, Venn diagrams, and basic geometric concepts. Presents the practical skills of reading a thermometer, maps, and understanding the value of coins.

Required Materials: Counters, coins

#### Math 1 B

Introduces counting by twos, fives, and tens. Teaches vertical addition and subtraction. Introduces multiplication, division, and even/odd numbers. Explores geometric shapes, use of a balance beam, and the concept of weight. Covers the signs used in math operations.

#### Science 1 A

Introduces animals and their habitats, behaviors, and basic needs. Explores the concept of erosion, cloud formations, and types of weather. Provides opportunities for observations of constellations and how humans live with nature.

Required Materials: Tweezers, iron, dowel, outdoor thermometer

#### Science 1 B

Examines animals in the arctic, states of matter, characteristics of plants and trees, butterflies, and bees. Explores life in a pond and provides the opportunity to plant a garden. Introduces the practice of inquiry and observation.

**Required Materials:** Tomato seeds, gardening pot, soil, vegetable seeds

#### Social Studies 1 A

Explores basic fundamentals of map skills, cardinal directions, and maps of the U.S. and the globe. Introduces important figures from American history such as Pocahontas, George Washington, Abraham Lincoln, and Clara Barton. Teaches students how to retell stories using details and the basics of a narrative.

#### **Social Studies 1 B**

Introduces economics focusing on bartering, goods and services, community jobs, and how the marketplace works. Explores positive character traits and the concept of personal responsibility.

## SECOND GRADE

#### Language Arts 2 A

Teaches students to spell and write vocabulary, read more fluently, apply grammar concepts, and participate in handwriting and writing activities through thematic units. Grows reading and comprehension strategies through assigned and independent readings. Presents opportunities to master sight and spelling words through weekly writing assignments. Includes units on families, cooking, animals, and authors.

#### Language Arts 2 B

Teaches students to spell and write vocabulary, read more fluently, apply grammar concepts, and participate in handwriting and writing activities through thematic units. Grows reading and comprehension strategies through assigned and independent readings. Presents opportunities to master sight and spelling words through weekly writing assignments. Includes units on communities, nature, space, and feelings.

#### Math 2 A

Continues to build fluency with basic math facts. Introduces subtraction and addition within 100. Explains how to solve word problems using strategic methods. Explores numbers to 1000 using knowledge of hundreds, tens, and ones. Presents arrays with repeated addition.

**Required Materials:** Counters or bag of beans

#### Math 2 B

Uses place value to add and subtract within 1000. Teaches how to estimate and solve word problems. Explores length and how to represent it on a number line. Introduces money and time to compare values. Explains data collection and graphs. Reviews common 2-dimensional and 3-dimensional shapes by specific characteristics.

**Required Materials:** Counters or bag of beans

#### Science 2 A

Introduces students to the process of observation and how important it is to the study of science. Examines many different types of animals, their environments, characteristics, habits, and needs through observation. Explores plant and animal rhythms and students will participate in small experiments with plants. Presents stories to teach about nature and interactions that humans have with nature.

Required Materials: Seeds, potting soil, pots for plants, birdseed

#### Science 2 B

Explains the different groupings of animals, including vertebrates, invertebrates, warm- and cold-blooded animals, carnivores, herbivores, and omnivores. Reviews the five senses that they discussed at the beginning of the course and compares them to the senses of animals. Covers how animals communicate and the relationship between animals and humans. Analyzes the characteristics of reptiles, insects, birds of prey, and fish.

#### Social Studies 2 A

Explores the ancient cultures of China, Africa, and the Celts through ancient folk tales and fables. Examines the importance of geography and direction by locating boundaries while using a world map. Develops a rudimentary understanding of map symbols as students locate continents, the equator, and oceans. Explores relevant locations by using personalized maps to identify roads, rivers, mountain ranges, and lakes.

#### **Social Studies 2 B**

Introduces economics and the role that money plays in every civilization, including the exchange of money for goods and services. Compares differences between natural, human, and capital resources. Explains what scarcity is and why it is good that we do not always get everything that we want. Explores desirable human qualities through the use of fables such as "The Boy Who Cried Wolf." Discusses individuals who have made a difference in the greater community.

## THIRD GRADE

#### Language Arts 3 A

Continues to build vocabulary through the study of folktales, fables, myths, informational text, dramas, poems, and stories. Presents stories and requires demonstration of story comprehension. Compares the themes, settings, and plots of stories. Presents the logical connections between a sentence and paragraph. Introduces writing in cursive.

#### Language Arts 3 B

Continues to apply phonics and grammar concepts with a focus on special vowel sounds, prefixes, and suffixes. Builds writing skills by having students respond to readings in authentic writing activities using the writing process. Uses reading accuracy and fluency to support comprehension. Offers opportunities to read and comprehend informational texts, including history/social studies, science, and technical texts.

#### Math 3 A

Builds flexibility with numbers as addition, subtraction, multiplication, and division facts are mastered. Explores mathematical relationships by learning how to borrow, carry, and regroup in order to find sums and differences of numbers up to 10,000. Explains place value up to 1,000,000 to find patterns and make estimations. Reviews the 4-step approach to solving problems and how to express numbers differently including translating them into Roman Numerals or expressing them as ordinal numbers.

**Required Materials:** Counters, 50 pennies

#### Math 3 B

Explores concepts of measurement including linear measurement, weight, volume, temperature, and time. Introduces how to recognize, compare, and convert fractions. Teaches how to write amounts of money and make change using as few coins as possible. Examines lines, polygons, and solid figures as an introduction to basic concepts of geometry.

**Required Materials:** 12 sheets of hundreds blocks, eye dropper, thermometer, brads

#### Science 3 A

Introduces students to experimentation as they research the earth. Presents units with simple experiments that explore the water cycle, gravity, the weather and its patterns, various types of terrain, the role of plants in the production of oxygen and their importance to human survival. Explains that experiments require the use of instruments, observation, recording, and drawing conclusions based on evidence.

Required Materials: Inflatable globe, balloons, clay

#### Science 3 B

Begins with the students writing a poem about the seasonal cycles. Explores the concepts of root formation, the interdependence of plants and humans, biomes of land and sea, extreme weather, rocks, vertebrates and invertebrates, as well as extinction. Examines characteristics of earthquakes, volcanoes, rocks, and caves. Introduces heredity and genetics.

Required Materials: Celery, magnifying glass

#### Social Studies 3 A

Examines the ancient Hebrew civilization, the Phoenicians, the Kush Tribe of Ancient Africa, and the Native American tribes of the Cherokee, Sioux, and Hopi. Introduces the first explorers of the Americas and the beginning of the United States. Reviews geographical factors of the ancient civilizations, Native American tribes, and the developing United States. Provides an opportunity for students to discover their own personal heritage by mapping their ancestry.

Required Materials: Clay, globe

#### Social Studies 3 B

Explains economics and the role that money plays in every civilization. Compares natural, human, and capital resources. Examines the production of goods, trade, specialization, and interdependence, and the importance each individual plays in a society's economy. Introduces Civics by discussing the governmental structure of the Ancient Hebrews and Phoenicians. Covers the purpose, importance, and establishment of laws through stories of the Ancient Phoenicians, Native Americans, and the United States.

**Required Materials:** Craft foam, Sculpey clay

## **FOURTH GRADE**

#### Language Arts 4 A

Integrates reading, writing, speaking, listening, and the study of vocabulary and grammar to build literacy skills. Covers classic and contemporary literature, including media and multimedia products. Focuses on narrative and persuasive writing, and emphasizes the use of details to support opinions. Guides students through the writing process. Teaches students how to participate in collaborative discussion and peer review sessions. *Required Materials:* "A Tale of Despereaux" by Kate DiCamillo, "Bud, Not Buddy" by Christopher Paul Curtis, and "Tales of a Fourth Grade Nothing" by Judy Blume, Additional optional novels

#### Language Arts 4 B

Teaches specific skills for reading poetry, drama, and informational text. Explains how informational text differs from literary text and how different forms of informational text differ from each other. Presents writing assignments emphasizing expository writing and guides students through research projects. Develops oral presentation skills using multimedia.

**Required Materials:** "Wringer" by Jerry Spinelli, "Pictures of Hollis Woods" by Patricia Reilly Giff, and "Shiloh" by Phyllis Reynolds Naylor, Additional optional novels

#### Math 4 A

Develops understanding and fluency with multi-digit multiplication and dividing to find quotients involving multi-digit dividends. Reviews estimation, rounding, and place value. Explores fraction equivalence, addition and subtraction of fractions with like denominators, and multiplication of fractions with whole numbers.

Required Materials: Graph paper

#### Math 4 B

Continues working with fractions with a focus on multiplying and converting fractions to decimals. Covers equivalent measurements of length, weight, mass, and capacity. Explores time, distance, and money. Analyzes geometric figures for angle measures, symmetry, parallel, and perpendicular sides. Introduces tessellations. *Required Materials:* Calculator, protractor

#### Science 4 A

Explores types of experimenting, including field studies, systematic observations, models, and controlled experiences. Introduces the scientific method. Examines life on planet earth, salt and freshwater, and the changes that occur on the planet. Reviews galaxies, the solar system, and other planets. Identifies the ways that forces and motion can be measured and the concept that a single kind of matter can exist as a solid, liquid, or gas.

**Required Materials:** Modeling clay, orange gelatin, scale, house plant, inflatable globe, gumdrops, sugar cubes

#### Science 4 B

Focuses on the relationship between heat, light, sound, and electrical energy, and the transfer between each other. Compares natural objects and objects made by humans by examining technology and the role it plays in science. Covers the life cycles of animals, plants, and humans and how they interact with each other.

Required Materials: Indoor holiday lights, marbles, thermometer

#### Social Studies 4 A

Explores the early development of the United States including early Native Americans and European Settlers. Explains the establishment of the American colonies and early American government. Reviews important documents and the establishment of rules and laws that has led to the formation of the federal and state governments as we know them today. Covers local state and community history.

#### **Social Studies 4 B**

Introduces basic concepts of economics including supply and demand, entrepreneurship, resources and scarcity, and personal finance. Covers the relationship humans have with our physical environment. Explores geography and map reading skills. Provides an overview of cultural awareness. Explains major events in the Great Depression and WWII. Reviews state history and government.

## FIFTH GRADE

#### Language Arts 5 A

Integrates reading, writing, speaking, listening, and the study of vocabulary and grammar to build literacy skills. Covers classic and contemporary literature with an emphasis on identifying conflicts, character and setting development, and following dialogue. Focuses on narrative and persuasive writing and the use of details to support opinions. Guides students through the writing process.

**Required Materials:** "Because of Winn Dixie" by Kate DiCamillo, "Number the Stars" by Lois Lowry, and "The Watsons Go to Birmingham" by Christopher Paul Curtis, Additional optional novels

#### Language Arts 5 B

Teaches specific skills for reading and analyzing informational text including main ideas, authors' claims, and how to synthesize scientific information from multiple articles. Presents writing assignments emphasizing expository writing and guides students through research projects, with an emphasis on reference materials and sources. Develops oral presentation skills using multimedia.

**Required Materials:** "Maniac Magee" by Jerry Spinelli, "Out of the Dust" by Karen Hesse, and "Island of the Blue Dolphins" by Scott O'Dell, Additional optional novels

#### Math 5 A

Develops fluency with addition, subtraction, multiplication, and division of fractions. Extends division to 2-digit divisors, integrates decimal fractions into the place value system, and increases an understanding of operations with decimals to hundredths. Covers operations and expressions, decimals, and money. Presents real-life situations involving the use of math.

#### Math 5 B

Continues work with fractions focusing on ratios and solving word problems using fractions and ratios in practical life situations. Presents lessons in measurement of length, weight, and volume. Introduces reciprocals and conversions of weights and measures. Explains how to read and interpret line graphs. Discusses geometric concepts of volume, coordinate points, and polygons.

Required Materials: Graph paper

#### Science 5 A

Focuses on earth and space science by looking at the solar system and planets. Presents the concept of the earth as a sphere and the earth's place in the solar system. Explains the different tools that can measure force, time, and distance. Explores how light and sound travel and interact with each other, as well as the different types of energy. Concludes with a look into life science and the ways that organisms are interconnected.

**Required Materials:** Seeds, balloons

#### Science 5 B

Covers the different types of ecosystems that exist and how changes to them affect their ability to support their populations. Examines plants, their structures, and how those structures allow them to respond to different needs. Improves understanding of the importance of good nutrition for all living organisms. Concludes with a look into the scientific process and the importance of investigations and conclusions.

Required Materials: Indoor holiday lights, marbles, thermometer

#### **Social Studies 5 A**

Combines the study of United States History through the Civil War with a geographical exploration of the United States and what it has to offer. Explores early settlements of North America and allows learners to take an in-depth look into what life was like for colonists and Native Americans. Explains the causes of the Revolutionary War and the people who played a significant role in it. Examines the new nation and what life was like for European immigrants and those on the frontier.

#### **Social Studies 5 B**

Explores the west and what life was like for those looking to find gold. Covers slavery and what led to the Civil War. Examines cultures, people, and the geography of the United States from past to present. Presents the geography, climate and culture of the United States.

## **ACADEMIC ENRICHMENT**

## i-Ready Math

Gauges student's math skills through online adaptive assessments. Determines what math skills the student has mastered and what skills may need more practice. Presents individualized lessons that enable a student to become a stronger and more confident mathematician.

## i-Ready Reading

Gauges student's reading skills through online adaptive assessments. Determines what reading skills the student has mastered and what skills may need more practice. Presents individualized lessons that enable a student to become a stronger and more confident reader.

## INFORMATION TECHNOLOGY

#### **Computer Fundamentals**

Learn about computer equipment, the basics of keyboarding and how to properly use some G Suite tools. Explore email etiquette and basics of internet safety. Available for grades 3 through 5.

## Keyboarding

Explores the keyboard home keys through the top and bottom row. Focuses on sight and high-frequency words. Assumes no keyboarding experience. Available for grades 3 through 5.

#### **Minecraft for Kids Command Blocks Scripting**

Explores coding through step-by-step videos and activities. Students code a game and add newly learned code throughout the semester. Chromebook is not supported.

**Required Materials:** Minecraft Java Edition software (\$39.99 download), this course not suitable for Chromebook

#### **Roblox for Kids**

Develops coding skills through videos and activities. Students code a game and add newly learned code throughout the semester. Must have a personal Roblox Account (free). Chromebook is not supported. *Required Materials:* Roblox game (free online account), this course not suitable for Chromebook

## **Scratch Coding**

Introduces real coding programs using the drag-and-drop coding block method to create a fully functional program. Assumes no prior computer coding knowledge. Available for grades 4 and 5.

Required Materials: Online account

## PHYSICAL, HEALTH, & SAFETY EDUCATION

#### Health 1 A

Establishes a basic understanding of the aspects of health and how students can make healthy choices. Examines personal safety, healthy behaviors, and nutrition.

#### Health 1 B

Provides a deeper understanding of the fundamental concepts of health. Covers communication styles, personal hygiene, disease prevention, basic anatomy and physiology, and the values of cooperation and teamwork.

#### Health 3 A

Examines the various intermediate aspects of health and healthy choices. Expands upon personal safety, healthy behaviors, and conflict resolution. Introduces stress management, household safety, and emergency situations.

#### Health 3 B

Discusses the importance of nutrition and physical activity, disease prevention, and human anatomy and physiology. Introduces the concepts of consumer and environmental health.

#### Health 5 A

Reviews the various aspects of health and how to make healthy choices. Expands on physical and emotional health, friendships, decision-making, refusal skills, body image, personal hygiene, and healthy lifestyles and food choices.

#### Health 5 B

Expands upon the various aspects of health and healthy lifestyle choices. Teaches concepts of health resources, household safety, emergency preparedness, emotional health, nutrition, and personal safety and relational boundaries.

#### Physical Education K A

Establishes a basic understanding and benefits of good health and fitness. Introduces exercise, water safety, and making healthy choices. Covers basic components of fitness including cardio, strength, and flexibility. Requires students to participate in regular physical activity.

**Required Materials:** Heart rate monitor, SPRI resistance tubing kit.

## Physical Education K B

Reviews various concepts of good physical and mental health. Expands upon the concepts of teamwork, sportsmanship, individual and group activities, and sports terms. Introduces nutrition concepts including food groups, food labels, and health eating choices. Explores basic muscle anatomy, muscle action, heart and lung health, and staying active. Requires students to participate in regular physical activity.

**Required Materials:** Heart rate monitor, SPRI resistance tubing kit.

## Physical Education 2 A

Introduces concepts in physical fitness and how to stay fit and healthy. Covers warm-up and cool-down techniques, water safety, goal setting, nutrition, muscle strength and flexibility. Reviews bike and traffic safety. Requires students to participate and track regular physical activity.

#### **Physical Education 2 B**

Focuses on the principles of fitness including the FITT (Frequency, Intensity, Time, and Type) principles. Introduces locomotor movements, common sports terms, dance, heart health, and sportsmanship. Covers additional aspects of nutrition including food groups, healthy choices, and understanding food labels. Requires students to participate and track regular physical activity.

## Physical Education 4 A

Explores personal fitness concepts and goals and how to stay fit and healthy. Reviews warm-up and cool down techniques, exercise safety, and goal setting. Teaches appropriate posture and technique, as well the components of proper physical fitness. Introduces muscle strength and endurance. Requires students to participate and track regular physical activity.

#### **Physical Education 4 B**

Expands upon more complex exercise activities, dimensions of health, and how to conduct a fitness assessment. Covers strategies for common games and sportsmanship. Introduces the concept of cross training. Reviews the benefits of fitness and how nutrition and exercise are an important aspect of a healthy lifestyle. Requires students to participate and track regular physical activity.

## **VISUAL & PERFORMING ARTS**

## **Art Development Level 1**

Introduces basic concepts of art such as lines, circles, shapes, primary colors, watercolors, fingerprint flowers, cut-out faces, and mirror printing. Explores shapes, lines, and other art basics while they create their own art notebook. Culminates with students creating their own book cover thus creating an art book keepsake.

## **Art Development Level 2**

Introduces basic concepts of art such as the color wheel, complementary colors, lines, painting, mirror images, symmetry, flower shapes, block-printing, and free drawing. Explores shapes, lines, and other art basics while they create their own artwork. Promotes development of fine motor skills.

#### **Art Development Level 3**

Introduces basic concepts of art such as the color wheel, complementary colors, watercolors, drawing, and sculpture. Combines art forms and increases self-confidence in art through the creation of personalized artwork.

## **Art Development Level 4**

Introduces basic concepts of art such as coloring, shading, composition, portrait creation, mosaics, and collages. Reviews age-appropriate art vocabulary and concepts that will help build on skills learned in prior elementary level art courses. Explains the historical context of artwork and art techniques.

#### Arts and Crafts K A

Provides a foundation for children's inherent artistic imagination and creativity by sharing the basics of art and making art. Introduces lines, circles, recognizing and using shapes, how to create a collage, and concepts such as symmetry. Explores a variety of media such as pastels, watercolors, crayons, tempera, and pencil drawings. *Required Materials:* Safety Needle, beans, buttons, embroidery floss, clothing pattern, variety paints, elastic, carving instruments, pastels, watercolors, tempera paints

#### Arts and Crafts K B

Provides a foundation for children's inherent artistic imagination and creativity by sharing the basics of art and making art. Applies skills from the first semester to produce more detailed works of art. Includes projects that have students building a bird feeder, making puppets, craft paper flowers, potpourri, wind chimes and collages.

#### **Arts and Crafts 1 A**

Provides a foundation for the student's artistic imagination and creativity by sharing the basics of art and making art. Introduces primary colors, the color wheel, shapes such as lines and circles, and concepts such as symmetry. Explores a variety of media such as pastels, watercolors, crayons, tempera, and pencil drawing. *Required Materials:* Art paper, paints, pastels, spray fixative

## **Arts and Crafts 1 B**

Explores art using different mediums. Covers how to express emotions and feelings through artwork. Presents projects including creating a calendar.

**Required Materials:** Art paper, paints, pastels, clay, spray fixative

## **VISUAL & PERFORMING ARTS**

#### Arts and Crafts 2 A

Explores the primary and complementary colors using the color wheel. Uses watercolor paints to create art. Presents the concepts of symmetry using drawing and painting media, pop art, and sculpture.

Required Materials: Art paper, paints, brushes, oil pastels, clay

#### Arts and Crafts 2 B

Presents a semester-long project of designing a personalized calendar. Uses clay to create a seasonal table and to make sculptures. Explores form drawings. Allows students to choose their own projects to complete.

Required Materials: Art paper, paints, brushes, oil pastels, clay

#### **Recorders Level 1**

Combines music and performing arts. Introduces new songs for students to sing. Builds dramatic skills using fingerplays. Introduces beginning notes and how to play the recorder. Available for grades 3 through 5.

**Required Materials:** Recorder



# COURSE DESCRIPTIONS

Middle School

## **ENGLISH LANGUAGE ARTS**

#### Language Arts 6 A

Analyzes literature focused on storytelling and heroes. Develops student expression of ideas and knowledge using standard (formal) English in written and oral assignments. Emphasizes finding the themes of stories, identifying points of view, characterization and dialogue. Introduces grammar, usage, and mechanics of writing, with attention to sentence structure.

Required Materials: "The Watsons Go to Birmingham" by Christopher Paul Curtis, additional optional novels

#### Language Arts 6 B

Builds on student expression of ideas and knowledge using standard (formal) English in written and oral assignments with a focus on parts of speech, prefixes, and figurative language. Explores myths and fairy tales and teaches students how to identify forms of poetry.

**Required Materials:** "The Giver" by Lois Lowry, additional optional novels

#### Language Arts 7 A

Examines how to synthesize and organize ideas to prepare structured essays in several different modes, including narrative and persuasive. Applies strategies for reading and writing about different types of texts. Discusses the elements of drama. Reviews sources of research.

**Required Materials:** Anthology: "Poetry Speaks Who I Am Novel: Julie of the Wolves" by Jean Craighead George, additional optional novels

#### Language Arts 7 B

Builds on skills and concepts introduced in the first semester. Analyzes elements of poetry. Reviews the history of language. Introduces elements of writing including precision of word choice, style, syntax, and levels of formality. Surveys how humor is used as a literary device.

**Required Materials:** Anthology: "Poetry Speaks Who I Am", Novel: "The Outsiders" by S.E. Hinton, additional optional novels

#### Language Arts 8 A

Analyzes various types of written works, including novels, short fiction, informational texts, and one-act plays. Explores reading as a source of ideas for reflection, analysis, and argument, while emphasizing content in science and history. Examines how to synthesize and organize ideas to prepare structured essays in several different modes, including personal narratives, persuasive essays and an original one-act play.

**Required Materials:** Anthology: "Poetry Speaks Who I Am" Novel: "Roll of Thunder, Hear My Cry" by Mildred Taylor, additional optional novels

#### Language Arts 8 B

Reviews the role of historical autobiographies and diaries in our understanding of history. Discusses the impact of point of view on nonfiction texts. Examines how to synthesize and organize ideas to write a reflective and persuasive essay. Combines students' reading and writing assignments into a culminating portfolio project. **Required Materials:** Anthology: "Poetry Speaks Who I Am", Novel: "Diary of a Young Girl" by Anne Frank, additional optional novels

## **MATHEMATICS**

#### Math 6 A

Reviews basic addition, subtraction, multiplication, and division of whole numbers. Teaches how to add, subtract, multiply, and divide integers, decimals and fractions. Examines ratios and proportions.

#### Math 6 B

Teaches the order of operations and its application to problem solving. Introduces basics of algebra and algebraic expressions. Applies problem-solving skills to percents and solving single and multiple-step equations. Explores geometry, probability and statistics.

#### Math 7 A

Focuses on real-world problem-solving skills. Examines beginning algebra skills, geometry, decimals, fractions, data analysis, number theory and patterns, decimals, percents and integer use. Introduces inequalities, functions, and their graphs.

#### Math 7 B

Continues exploration of fractions and percents. Covers unit conversions, proportions, probability, and rates. Includes the geometry topics of lines, angles, polygons, polyhedrons, perimeter, area, surface area, volume, and transformations. Develops the understanding of squares, square roots, permutations and combinations.

## Pre-Algebra A

Looks at computational and problem-solving skills while learning the language of algebra. Reinforces concepts of rational numbers, graphs, functions, percents, ratios and sequences. Introduces exponents, ratios, proportions, and similarity.

## Pre-Algebra B

Examines the foundations of geometry including perimeter, area, and volume. Introduces experimental and theoretical probability. Builds knowledge of data, statistics and sequencing. Explains and provides practice with multi-step equations and inequalities.

Prerequisite: Pre-Algebra A

## SCIENCE

#### Science 6 A

Integrates the fields of earth and space science, life science, and physical science. Introduces earth and space science and examines forces and gravity, stars, earth, moon and the solar system.

#### Science 6 B

Focuses on the understanding and application of science topics. Covers ecosystems, the energy flow of life, green plants, energy, heat and Newton's Laws of motion.

#### Science 7 A

Integrates the fields of earth and space science, life science, and physical science. Examines the nature of science, waves and sound, light, lenses, electricity and magnets.

#### Science 7 B

Focuses on the understanding and application of topics. Covers matter and chemical reactions, cells, digestive system and human nutrition, respiratory and circulatory systems, and body movement and systems.

#### Science 8 A

Integrates the fields of earth and space science, life science, and physical science. Examines Earth's history and structure, modern machines, simple and compound machines, water, air, climate, weather, and science then and now.

#### Science 8 B

Focuses on the understanding and application of topics. Covers vertebrates, invertebrates, pollution, human impacts on populations, classification of living things, reproduction, heredity, and evolution.

## **SOCIAL STUDIES & HISTORY**

#### Social Studies 6 A

Examines the beginnings of ancient civilization. Covers fertile crescent civilizations, ancient Egypt, ancient American civilizations, polytheism to monotheism, the Mediterranean, and the study of history and time's beginning.

#### Social Studies 6 B

Continues the study of major ancient civilizations. Compares the modern world in which we live. Examines early Rome, Roman Empire, Indian civilizations, classical China, and post-classical China.

#### Social Studies 7 A

Examines the history of the United States with an emphasis on ideas, events, and philosophies that have shaped the nation. Covers concepts starting with the first Americans and ends with the Civil War.

#### Social Studies 7 B

Discusses how historical ideas, events, and philosophies have shaped the nation. Covers concepts starting with Reconstruction and its aftermath and ends with new challenges in the present day.

#### **Social Studies 8 A**

Explores the significance of government, law, and politics. Discusses American citizenship, the foundation of America's political system, federal and state government, and introduces civics and why government is needed.

#### Social Studies 8 B

Examines the justice system, local government, the environment, and economy. Emphasizes civic responsibility and compares local governments.

## **ACADEMIC ENRICHMENT**

## i-Ready Math

Gauges student's math skills through online adaptive assessments. Determines what math skills the student has mastered and what skills may need more practice. Presents individualized lessons that enable a student to become a stronger and more confident mathematician.

## i-Ready Reading

Gauges student's reading skills through online adaptive assessments. Determines what reading skills the student has mastered and what skills may need more practice. Presents individualized lessons that enable a student to become a stronger and more confident reader.

## **Study Skills**

Introduces students to the concepts and skills important to be effective learners. Teaches skills for effective online learning like active reading/listening, note-taking, time management, and test-taking strategies. Prepares students to develop and implement specific learning and study plans for any academic course.

# **BUSINESS & MARKETING**

## **Exploring Business**

Examines career options such as human resources, business operations, information management, and accounting. Explores the skills, common tasks, the technology used, and characteristics of various business careers.

Required Materials: Video/Audio recording device (e.g. phone)

## **CAREER EXPLORATION & DEVELOPMENT**

## **Career Exploration 1: Charting Your Path**

Explores careers in a variety of fields and disciplines and explains the necessary skills and education needed to choose a future path. Provides detailed information on the required education and training options for career paths.

## **Career Exploration 2: Find Your Passion**

Explores additional career options. Explains the steps needed to prepare for different occupations and how to compare the pros and cons of different career choices.

**Prerequisite:** Career Exploration 1: Charting Your Path

## **COMMUNICATION & AV TECHNOLOGY**

#### Journalism: Tell Your Story

Explains how to ask the right questions, look for the details, and find the story in any situation. Explores how to gather information effectively, organize ideas, format stories for media production, and edit your articles.

## **Tech Apps 6**

Learn how to be successful in the digital world. Introduces coding, blogs, content creation, photo and video software and editing. Master how to stay safe online and good netiquette. Discover how to effectively manage files and improve typing skills.

**Required Materials:** Scratch (free account required), Scribbr (free account required)

#### **Tech Apps 7**

Explores new content creation software. Introduces the attributes one needs to be a productive member of a team and how to break a problem into steps. Teaches students how to code a robot in Scratch and reviews various content creation methods like Google apps, blogs, podcasts, and videos.

**Required Materials:** Software (Canva; Google Suite apps; Lucidchart; Scratch; typing.com)

## **Tech Apps 8**

Guides students through the technological landscape, such as using tools like Google Apps, understanding algorithms, types of tech hardware, and basic cybersecurity. Enhances ability to type, code, and use audio and video editing software. Teaches students how to be an effective and responsible digital citizen.

Required Materials: 123apps, Blogger, Google Suite apps, CodeSkulptor3, and Typing.com

# **HEALTH CARE SCIENCES**

## **Exploring Health Science**

Explores the field of health care, including the variety of locations a health care professional might work. Provides an introduction to the human body and basic first aid.

## INFORMATION TECHNOLOGY

## **Coding 1a: Introduction**

Examines the technology used in day-to-day life and explores how the internet functions. Introduces how to create and build a website using HTML and CSS. Provides an introduction to programming languages like JavaScript and Python. Available for grades 7 and 8.

**Prerequisite:** Exploring Information Technology

**Required Materials:** Video/Audio recording device (e.g. phone), Obvibase, Scratch, Lucidchart, OnlineGDB,

Playcode.io

## Coding 1b: Learning Python and JavaScript

Expands knowledge of Advanced Python, HTML, and JavaScript. Explores careers in the fast-growing IT field. Available for grades 7 and 8.

**Prerequisite:** Coding 1a: Introduction

#### **Computer Basics**

Uses productivity and collaboration tools, such as G-Suite by Google, to create word processing documents and spreadsheets.

## **Exploring Information Technology**

Explores the different career options and foundations in IT. Examines various IT pathways of web and digital communications, information and support services, network systems, and programming and software development. Teaches basic skills needed to be a programmer, culminating in creation of a quiz game in Python.

Required Materials: Logins for: Lucidpress, Obvibase, CodeSkulptor3, and Webcamera.io

## **Game Design 1a: Introduction**

Provides the steps to build a game from the ground up including the importance of game structure. Explains what makes a game fun, challenging, and interesting to players. Explores block-based programs and experiments with character and story development. Available to grades 7 and 8.

**Prerequisite:** Exploring Information Technology

**Required Materials:** Video/Audio recording device (e.g. phone), Art supplies Software: Scratch (requires login), Lunapic, Leshy SFMaker

## Game Design 1b: Creating a Game

Explains how to create details and add component pieces to a game while prototyping, troubleshooting, and testing to evaluate it. Available to grades 7 and 8.

Prerequisite: Game Design 1a: Introduction

**Required Materials:** Video/Audio recording device (e.g. phone), Art supplies Software: Scratch (requires login), Lunapic, Leshy SFMaker

## **JavaScript Game Design**

Teaches students JavaScript through coding multiple computer games including pong, fish, and tower defense. Explains variables, functions, listening events, loops, arrays, and objects. Assumes no prior coding experience.

Required Materials: Not compatible with Chromebooks or tablets

## **Javascript Tower Defense**

Develops coding skills through creation of a video game. Skills are learned through the play of a tower defense game, lessons and videos. Some basic coding experience is required. Chromebook is not supported.

**Required Materials:** This course not suitable for Chromebook

## Keyboarding

Introduces new keys by rows where students first learn the middle row, then the top row, and then the bottom row of the keyboard. Focuses on sight and high-frequency words. Assumes no keyboarding experience.

Required Materials: Device with a keyboard

#### **Roblox Worlds Coding with Lua**

Introduces coding skills to create an online video game. Students use skills they learn to improve their games throughout the semester. Chromebook is not supported.

**Required Materials:** Roblox game (free online account), this course not suitable for Chromebook

# PHYSICAL, HEALTH, & SAFETY EDUCATION

#### **Critical Thinking 1a: Introduction**

Investigates how people observe, analyze, create, and take action every single day through critical thinking. Explores real world problem solving skills.

#### **Critical Thinking 1b**

Builds on problem solving skills to understand how to analyze, evaluate, and observe the world. Students learn how to become logical and thoughtful thinkers throughout life.

**Prerequisite:** Critical Thinking 1a: Introduction

#### **Fitness**

Defines the basics of being physically fit and explains the body's functions. Teaches the complex science behind exercise and how to test fitness level.

**Required Materials:** A time and distance tracking application

#### Health

Introduces the importance of making decisions that will affect physical, emotional, mental, and social health. Provides the knowledge and resources needed to make responsible and informed decisions about personal health. Discusses values, opinions, and attitudes about health.

## **Individual and Team Sports**

Discusses how exercise and lifetime activities are important to overall health. Fosters courtesy and sportsmanship in sports. Covers the basic equipment, skills, rules, and principles of safety for archery, bicycling, golf, skiing, tennis and more.

## **SCIENCE**

#### **STEM: Tools for the Future**

Learn how STEM can shape your future and help solve the world's problems. Develop brainstorming, science, building, engineering, technology, and math skills through innovation and design.

**Required Materials:** Online software: Scratch, Scribbr, and Tinkercad (free downloads)

## **VISUAL & PERFORMING ARTS**

#### 2D Studio Art

Teaches the design elements and principles needed to create a work of art. Explores artistic inspirations, looks at art in different cultures, and provides insight into the art of critiquing.

Required Materials: Drawing paper, paintbrushes, paint, drawing tools

#### **Animation**

Explore the history of animation and learn the essentials of character development, color theory, design, and the principles of animation while applying your unique animation style to an animated character.

Required Materials: Online software; Blockbench and Mixamo (free downloads)

#### **Arts Explorations**

Encourages students to experience each of the modern art disciplines including visual arts, theater, music, media arts, and dance. Develops special areas of art interests and presents a variety of career paths.

**Required Materials:** Funny Photomaker (free download)

## **Basic Drawing**

Explores the world of drawing with different types of tools and materials to see what each look like. Use objects from daily life to focus drawings and explore the different textures, patterns, and forms that make up the world. **Required Materials:** Specific art supplies, including: 2B drawing pencils, a #10 round hair brush, black India Ink, a Pilot Varsity Pen, a black and white conté crayon, art gum eraser, white wax Crayola crayons, white drawing paper, black and gray construction paper, gray charcoal paper, 10x13 large envelopes, white watercolor paper, 9 1/2 x 12 rice paper, newsprint, and white glue

## **Beginning Painting**

Introduces students to classical and contemporary painting, techniques, and concepts, with an emphasis on the understanding of the fundamentals of artistic expression. Emphasizes color theory, linear perspective, compositional structure, figure/ground relationships, visual perception, spatial concepts, and critical thinking skills.

**Required Materials:** Acrylic paints, brushes, watercolor paper, cardstock pages

## **Digital Art and Design**

Distinguishes between digital art and design and other art forms. Compares early photography to modern day digital photography. Introduces digital editing tools. Explains the differences between 2D and 3D art. Describes the different types of animation. Examines the roles of musicians and sound producers in digital design. Identifies the qualities of great art.

## **Exploring Music**

Explores important elements of music like rhythm, pitch, and harmony, as well as different musical genres. Examines voice, musical instruments, and composition while taking in the history and culture of music over the years.

## Photography 1a: Introduction

Teaches the basics of using a camera, lighting, and how to choose great subjects to create magazine-worthy photos.

**Required Materials:** USB cable, as needed to transfer photos, Digital camera: "point and shoot" or a smartphone that allows manual adjustments to the camera mode, shutter speed, and aperture, online timeline creator, online photo editing software, and free graphic design software like Canva

## Photography 1b: Drawing with Light

Explores how to manipulate angles and lighting, the purpose of different types of photo files, and how to edit photos with different types of software. Identifies safe places to store photos.

**Prerequisite:** Photography 1a: Introduction

**Required Materials:** USB cable, as needed to transfer photos, Digital camera: "point and shoot" or a smartphone that allows manual adjustments to the camera mode, shutter speed, and aperture, online timeline creator, online photo editing software, and free graphic design software like Canva



# COURSE DESCRIPTIONS

**High School** 

## **ENGLISH LANGUAGE ARTS**

#### AP® English Language and Composition A

Students learn to understand and analyze complex works by a variety of authors. They explore the richness of language, including syntax, imitation, word choice, and tone. They also learn composition style and process, starting with exploration, planning, and writing. This continues with editing, peer review, rewriting, polishing, and applying what they learn to academic, personal, and professional contexts. In this equivalent of an introductory college-level survey class, students prepare for the AP® exam.

Prerequisite: Language Arts 10 B

**Required Materials:** Please check your current course syllabus for full required materials.

#### **AP® English Language and Composition B**

Focuses on the concepts and skills needed to analyze argumentative texts and to build solid arguments starting with the choices that experienced authors make when they write to persuade an audience. Applies best practices for constructing, revising, and refining arguments. Writing assignments include rhetorical analysis of straightforward written arguments as well as satirical texts and visual approaches to persuasion. Prepares students to take the Advanced Placement Language and Composition Exam™in late Spring.

Prerequisite: AP® English Language and Composition A

**Required Materials:** Please check your current course syllabus for full required materials.

## AP® English Literature and Composition A

Explores a variety of genres and literary periods with writing assignments about the literature. Evaluates how the elements of plot analysis, characterization, theme, point of view, symbolism, allegory, irony, and humor work together to create a story or novel that is worthy of literary acclaim. Develops writing skills in the following areas: narrative, exploratory, expository, and argumentative. Prepares students to take the Advanced Placement Literature and Composition Exam™ in late Spring.

**Prerequisite:** Language Arts 10 B

**Required Materials:** Please check your current course syllabus for full required materials.

#### AP® English Literature and Composition B

Analyzes a wide variety of poems from every era of British and American literature. Showcases plays by William Shakespeare, Henrik Ibsen, Tennessee Williams, and Arthur Miller. Includes critical thinking writing assignments about the literature in a variety of formats. Prepares students to take the Advanced Placement Literature and Composition Exam™ in late Spring.

**Prerequisite:** AP® English Literature and Composition A

**Required Materials:** Please check your current course syllabus for full required materials.

#### **Contemporary Novels**

Introduces a set of novels and novellas that were written during the twentieth century that reflect themes common to contemporary literature, such as the ability of the human spirit to rise above seemingly-impossible circumstances. Analyzes each novel's themes and also compares and contrasts the novels' treatment of common themes.

**Prerequisite:** Language Arts 9 B

## Creative Writing: Unleashing the Core of Your Imagination A

Provides a solid grounding in the writing process, from finding inspiration to building a basic story to using complicated literary techniques and creating strange hybrid forms of poetic prose and prose poetry. Provides tools to turn creative thoughts and ideas into fully realized pieces of creative writing.

## Creative Writing: Unleashing the Core of Your Imagination B

Focuses on different genres of creative writing including creative non-fiction and poetry. Provides different approaches to revision and how to edit and critique before publishing.

Prerequisite: Creative Writing: Unleashing the Core of Your Imagination A

#### Language Arts 9 A

Includes reading, writing, speaking, listening, and language, with a focus on exploring a wide variety of genres and their elements. Develops skills to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance. Emphasizes narrative, informative, and argumentative writing.

Required Materials: "Romeo and Juliet" by William Shakespeare, additional optional novels

#### Language Arts 9 B

Focuses on the analysis of different forms of literature and on comparative studies of world literature and literature delivered through different media. Develops writing with informational text and the stages of research. Integrates listening, speaking, and multimedia presentations to analyze and share ideas.

**Prerequisite:** Language Arts 9 A

**Required Materials:** "To Kill a Mockingbird" by Harper Lee, additional optional novels

#### Language Arts 10 A

Emphasizes the 6 Traits of Writing: Ideas, Organization, Voice, Word Choice, Sentence Fluency, and Conventions. Provides guidance through the 5-step writing process for each of the major types of writing: expository, persuasive, expressive, research, and functional. Analyzes literary themes and purpose.

**Prerequisite:** Language Arts 9 B

**Required Materials:** "Animal Farm" by George Orwell, one additional novel

#### Language Arts 10 B

Provides exposure to a variety of reading samples and connects the various authors and cultures within. Emphasizes inferences, comprehension, and analysis of a variety of reading genres. Focuses on writing using historical references, research, and evaluation.

**Prerequisite:** Language Arts 10 A

Required Materials: "Night" by Elie Wiesel, one additional novel

#### Language Arts 11 A

Explores foundational works of literature and other historical documents written between 1600 and 1900, and extends skills in five domains: analyzing literature, analyzing informational text, writing, speaking and listening, and language study. Writing modes addressed include narrative, reflective, persuasive, and analytical.

Prerequisite: Language Arts 10 B

Required Materials: "The Scarlet Letter" by Nathaniel Hawthorne, one additional novel

#### Language Arts 11 B

Examines historical eras and literary movements of the 20th and 21st century, such as Naturalism, Imagism, the Harlem Renaissance, and Postmodernism. Reinforces writing and informational text through the stages of a rigorous research process.

Prerequisite: Language Arts 11 A

Required Materials: "The Great Gatsby" by F. Scott Fitzgerald, one additional novel

#### Language Arts 12 A

Analyzes major works of literature organized into thematic units. Examines poetry, short stories, and novels that revolve around similar themes. Focuses on analyzing and interpreting the author's purpose and structure of the reading in order to identify characteristics of various genres.

Prerequisite: Language Arts 11 B

**Required Materials:** "Jane Eyre" by Charlotte Bronte, two additional novels

#### Language Arts 12 B

Examines major works of literature from around the world. Analyzes literature from North America, South America, and Europe. Reflects on important themes with a variety of writing genres.

Prerequisite: Language Arts 12 A

**Required Materials:** "The Grapes of Wrath" by John Steinbeck, "The Alchemist" by Paulo Coehlo, "The Metamorphosis" by Franz Kafka, "Hamlet" by William Shakespeare, two additional novels

#### **Public Speaking 1a: Introduction**

Explains the influence of rhetoric using works from famous orators like Aristotle and Cicero. Introduces how to recognize bias, prejudice, and propaganda. Explores the use of inductive and deductive reasoning and how to prepare a speech outline.

#### **Public Speaking 1b: Finding Your Voice**

Explores the use of inductive and deductive reasoning. Explains how to prepare a speech using correct and emotive language. Develops self-efficacy with public speaking and how to critically examine speeches in order to identify areas for improvement.

Prerequisite: Public Speaking 1a: Introduction

## **MATHEMATICS**

## Algebra 1 A

Introduces Algebra through expressions and equations including linear equations and how to graph them. Emphasizes using basic statistics to interpret the information given and found.

## Algebra 1 B

Provides a strong foundation in solving problems and applications that involve exponents, quadratic equations, polynomials and factoring methods, rational and radical equations.

**Prerequisite:** Algebra 1 A

## Algebra 2 A

Extends the understanding of major algebraic concepts such as expressions, equations, functions, and inequalities. Emphasizes the use of appropriate functions to model real world situations and solve problems that arise from those situations. Covers graphing functions by hand and understanding and identifying the parts of a graph.

**Prerequisite:** Geometry B

## Algebra 2 B

Builds on the concepts and building blocks needed to dive deeper into trigonometry, pre-calculus, and advanced probability and statistics.

**Prerequisite:** Algebra 2 A

#### AP® Calculus (AB) A

Emphasizes the multi-representational approach to calculus where problems and their solutions are explored and interpreted graphically, numerically, analytically and verbally. Prepares students for the AP® exam administered by the College Board in late Spring and is equivalent to an introductory college-level calculus course.

**Prerequisite:** Pre-Calculus B

**Required Materials:** Please check your current course syllabus for full required materials.

#### AP® Calculus (AB) B

Emphasizes the multi-representational approach to calculus where problems and their solutions are explored and interpreted graphically, numerically, analytically and verbally.

Prerequisite: AP® Calculus (AB) A

**Required Materials:** Please check your current course syllabus for full required materials.

#### AP® Calculus (BC) A

Covers topics in differential and integral calculus, including concepts and skills of functions, limits and derivatives. Prepares students for the AP® exam administered by the College Board in late Spring and is equivalent to an introductory college-level calculus course.

Prerequisite: AP® Calculus (AB) B

**Required Materials:** Please check your current course syllabus for full required materials.

#### AP® Calculus (BC) B

Extends learning to definite integrals, the Fundamental Theorem of Calculus, and concept of series. Prepares students for the AP® exam administered by the College Board in late Spring and is equivalent to an introductory college-level calculus course.

Prerequisite: AP® Calculus (BC) A

**Required Materials:** Please check your current course syllabus for full required materials.

#### **Consumer Math A**

Focuses on the mathematics involved in making wise consumer decisions. Explores the many ways in which mathematics affects daily life. Covers paychecks and wages, taxes, insurance, budgets, bank accounts, credit cards, interest calculations, and comparison shopping.

#### Consumer Math B

Includes topics such as vehicle and home purchasing, investing, and business and employee management.

#### **Geometry A**

Provides practical applications to show how geometric reasoning provides insight into everyday life. Begins with the tools needed in Geometry and explores basic Geometry concepts such as segments, angles, and triangles.

Prerequisite: Algebra 1 B

#### **Geometry B**

Explores quadrilaterals and circles, how an object is transformed, and how to represent that transformation both algebraically and geometrically. Develops understanding of area and volume of 2-dimensional and 3-dimensional objects.

**Prerequisite:** Geometry A

#### Math Essentials A

Reviews foundational math with whole numbers, fractions, mixed numbers and fractions to make sure students have confidence with the concepts. Then builds on these skills by learning more advanced mathematical concepts while continuing to build confidence and understanding of the essentials of math.

## **Math Essentials B**

Applies first semester knowledge while learning about the math used in daily life such as percentages, commissions, interest, and tipping. Also explores fundamental geometric concepts used every day such as perimeter, area and volume.

Prerequisite: Math Essentials A

#### Pre-Algebra A

Reviews computational and problem-solving skills while learning the language of algebra. Reinforces basic principles of Algebra concepts including rational numbers, graphs, functions, percents, ratios, and sequences. Introduces exponents, ratios, proportions, and similarity.

#### Pre-Algebra B

Examines the foundations of geometry including perimeter, area, and volume. Introduces experimental and theoretical probability. Builds knowledge of data, statistics and sequencing. Explains and provides practice with multi-step equations and inequalities.

Prerequisite: Pre-Algebra A

#### **Pre-Calculus A**

Explains graphs and applications of a variety of families of functions, including polynomial, exponential, logarithmic, logistic, and trigonometric. Emphasizes use of appropriate functions to model real world situations and solve problems that arise from those situations.

**Prerequisite:** Algebra 2 B

#### **Pre-Calculus B**

Introduces the concepts of trigonometry and graphs, trigonometric equations and identities, analytical trigonometry, sequences and series, conic sections, and an introduction to calculus. Builds understanding of graphing functions by hand and understanding and identifying the parts of a graph.

**Prerequisite:** Pre-Calculus A

## **SCIENCE**

#### **Anatomy and Physiology 1a: Introduction**

Examines cell structure and the functions and purposes of the skeletal, muscular, nervous, and cardiovascular systems, as well as diseases that affect those systems.

**Prerequisite:** Health Science Foundations 1b: Professional Responsibilities

**Required Materials:** Blood pressure monitor

#### Anatomy and Physiology 1b: Discovering Form and Function

Explains the structure, function, and interrelation between the lymphatic, immune, respiratory, digestive, urinary, and endocrine systems. The reproductive system is also discussed along with hereditary traits and genetics.

Prerequisite: Anatomy and Physiology 1a: Introduction

Required Materials: Blood pressure monitor

## AP® Biology A

Guides students to a deeper understanding of biological concepts, including the diversity and unity of life, energy, and the processes of life, homeostasis, and genetics. Examines concepts of regulation, communication, and signaling in living organisms, and interactions of biological systems. Prepares students for the AP® exam administered by the College Board in late Spring and is equivalent to an introductory college-level Biology course.

Prerequisite: Biology B

**Required Materials:** Please check your current course syllabus for full required materials.

## AP® Biology B

Analyzes biochemistry, cell structure and function, cell energetics, cellular reproduction and communication, heredity, molecular genetics, evolution, ecology, diversity of organisms, structure and function of plants and animals, and comparative anatomy. Prepares students for the AP® exam administered by the College Board in late Spring and is equivalent to an introductory college-level Biology course.

Prerequisite: AP® Biology A

Required Materials: Please check your current course syllabus for full required materials.

#### AP® Chemistry A

Introduces chemistry as the study of change, gases, thermochemistry, quantum theory, chemical bonding, crystals, phase changes, solutions, chemical kinetics, and chemical equilibrium. Prepares students for the AP® exam administered by the College Board in late Spring and is equivalent to an introductory college-level Chemistry course.

Prerequisite: Chemistry B

**Required Materials:** Please check your current course syllabus for full required materials.

## **AP® Chemistry B**

Develops a comprehensive understanding of acids and bases, entropy, electrochemistry, nuclear chemistry, metallurgy, alkali and alkaline metals, non- metals, metals, transition metals, organic chemistry, and synthetic and natural organic polymers. Prepares students for the AP® exam administered by the College Board in late Spring and is equivalent to an introductory college-level Chemistry course.

Prerequisite: AP® Chemistry A

**Required Materials:** Please check your current course syllabus for full required materials.

#### AP® Physics 1 A

Emphasizes hands-on laboratory work in this algebra-based, introductory college-level physics course. Explores principles of Newtonian mechanics (including rotational motion), work, energy, and power. Focuses on six Big Ideas, which encompass core scientific principles, theories, and processes that provide a broad way of thinking about the physical world. Prepares students for the AP® exam administered by the College Board in late Spring and is equivalent to an introductory college-level Physics course.

**Prerequisite:** Physics B

Required Materials: Please check your current course syllabus for full required materials.

#### AP® Physics 1 B

Explains how to establish lines of evidence to develop and refine testable explanations and predictions of natural phenomena. Focuses on scientific inquiry. Prepares students for the AP® exam administered by the College Board in late Spring and is equivalent to an introductory college-level Physics course.

Prerequisite: AP® Physics 1 A

**Required Materials:** Please check your current course syllabus for full required materials.

## **Biology A**

Introduces students to the scientific method and the major concepts of biology from a historical and practical viewpoint. Addresses three major themes of biology: the cell, the molecular basis of heredity, and the interdependence of organisms.

#### **Biology B**

Covers the major concepts of population dynamics and evolution. Explores population dynamics through the study of mutualism, predation, parasitism, and competition.

Prerequisite: Biology A

## Chemistry A

Focuses on types of matter, atomic structure, chemical periodicity, chemical formula writing and naming, and chemical equations. Also stresses the important relationship between math and science, while studying measurement, the metric system, and stoichiometry.

**Prerequisite:** Algebra 1 B

## **Chemistry B**

Investigates chemical bonding, thermochemistry, and acids and bases. The scientific method to solve real world problems will be utilized. Content covers the following areas: organic chemistry, biochemistry, and nuclear chemistry.

Prerequisite: Chemistry A

#### Earth Science A

Begins with scientific inquiry and the process scientists use to communicate findings. Focuses on geology, oceanography, astronomy, weather, and climate.

#### **Earth Science B**

Expands upon scientific inquiry, focusing on the physical structure of the Earth and Earth's tectonic system. Includes the rock cycle, erosion, geologic history, and natural resources.

**Prerequisite:** Earth Science A

#### Forensic Science 1: Secrets of the Dead

Explores the techniques and practices applied during a crime scene investigation and how clues and data are recorded and preserved. Follows the entire forensic process from pursuing the evidence trail to taking the findings to trial.

#### Forensic Science 2: More Secrets of the Dead

Describes basic scientific principles used in the lab, such as toxicology, material analysis, microscopy, and forensic anthropology. Explains how scientists use everything from insects to bones to help them solve crimes.

**Prerequisite:** Forensic Science 1: Secrets of the Dead

#### Forensics: The Science of Crime A

Explores the responsibilities of forensic scientists and some of the specialty areas that forensic scientists may work in. Examines different types of physical evidence including firearm and tool evidence. Discusses how forensic scientists examine human remains and gain information from those remains.

#### Forensics: The Science of Crime B

Examines the basic components of DNA and how forensic science investigates crime scenes in which fire or explosions have occurred. Applies the scientific method to forensic cases. Explores new technologies in DNA typing and genetic analysis. Relates the study of chemical reactions to criminal investigations. Analyzes the psychological clues to determine criminal profiles.

**Prerequisite:** Forensics: The Science of Crime A

#### **Paleontology**

Discover how the field of paleontology continues to provide amazing insight into early life on earth. Explains the history of geology, prehistoric creatures, and fossils.

#### Physical Science A

Provides a comprehensive survey of key topics including scientific methodology, energy, force, waves, and Newton's Laws.

#### **Physical Science B**

Focuses on physical science and the environment as well as the physics of modern machines, electricity and matter.

Prerequisite: Physical Science A

#### Physics A

Provides a comprehensive survey of all key areas: physical systems, measurement, kinematics, dynamics, momentum, energy, and introduces modern physics topics such as quantum theory and the atomic nucleus. Uses mathematical concepts such as graphing and trigonometry in order to solve physics problems.

**Prerequisite:** Algebra 2 B

## **Physics B**

Continues the exploration of mechanics, simple harmonic motion, wave properties, and optics. Explains the basics of thermodynamics and fluids, electricity and magnetism.

**Prerequisite:** Physics A

## **SOCIAL STUDIES & HISTORY**

#### **American Government**

Guides students through an in-depth study of the history, structure, and guiding principles of the American government. Reviews the origins of government in general and American government in particular—from the earliest models for democracy to the founding documents that created a federalist system of government in the United States.

## **Required Course**

## **American History A**

Provides an in-depth study of American Indian cultures, European colonization of the Americas, and the causes and effects of the American Revolution. Explores how geographical, economic, and political factors are the key factors in the growth of the United States of America.

## **Required Course**

## **American History B**

Begins with a study of American life before the 1929 Stock Market Crash and how the Roaring Twenties influenced society. Examines the causes and consequences of the Great Depression and moves on to a detailed study of World War II with an emphasis on America's role in the conflict. Continues with an analysis of the Cold War struggle and America's rise as a superpower.

#### **Required Course**

Prerequisite: American History A

#### **Anthropology 1: Uncovering Human Mysteries**

Offers an anthropological lens to observe the change from cave dweller to modern human. Explores the foundations of cultures, languages, and religions.

#### **Anthropology 2: More Human Mysteries Uncovered**

Summarizes how ancient cultures flourished by examining their views on life, death, art, and survival. Connects the world today to past cultures.

**Prerequisite:** Anthropology 1: Uncovering Human Mysteries

#### AP® European History A

Studies European history since 1300, introduces students to economic, cultural, social, and political developments. These developments played a fundamental role in shaping the world. Prepares students for the AP® exam administered by the College Board in late Spring and is equivalent to an introductory college-level History course. Available to grades 11 and 12.

**Required Materials:** Please check your current course syllabus for full required materials.

## **AP® European History B**

Introduces students to the birth of modern political thought, the Great Depression, and World War II. Analyzes the Cold War and the collapse of communism and wraps up with the dawn of the 21st Century. Prepares students for the AP® exam administered by the College Board in late Spring and is equivalent to an introductory college-level history course. Available to grades 11 and 12.

**Prerequisite:** AP® European History A

**Required Materials:** Please check your current course syllabus for full required materials.

#### AP® Government and Politics A

Examines the U.S. political system, political ideology, the development of the political system, and democratic institutions. Emphasizes basic comprehension and application of the U.S. political system to contemporary events. Prepares students for the AP® exam administered by the College Board in late Spring and is equivalent to an introductory college-level History course. Available to grades 11 and 12.

**Required Materials:** Please check your current course syllabus for full required materials.

## AP® Government and Politics B

Evaluates the structure and organization of the United States Congress and powers of both houses. Develops an understanding of the US Constitution, the checks and balances system, and the role of the courts. Prepares students for the AP® exam administered by the College Board in late Spring and is equivalent to an introductory college-level history course. Available to grades 11 and 12.

Prerequisite: AP® Government and Politics A

**Required Materials:** Please check your current course syllabus for full required materials.

#### AP® US History A

Explores and analyzes American historical events, individuals, and cultural trends from 1492 to 1877. Prepares students with the analytical skills and factual knowledge necessary to critically evaluate the problems in United States history. Prepares students for the AP® exam administered by the College Board in late Spring and is equivalent to an introductory college-level US History course. Available to grades 11 and 12 with teacher recommendation or overall 3.5 GPA.

**Required Materials:** Please check your current course syllabus for full required materials.

## **AP® US History B**

Covers the time frame of 1878 to the present. Covers topics such as the Great Depression, World War II, and the Cold War. Prepares students for the AP® exam administered by the College Board in late Spring and is equivalent to an introductory college-level US History course. Available to grades 11 and 12 with teacher recommendation or overall 3.5 GPA.

Prerequisite: AP® US History A

**Required Materials:** Please check your current course syllabus for full required materials.

## AP® World History A

Looks back to the prehistoric times and develops the connections between the early river valleys, the beginnings of civilizations and government. Covers the first agricultural revolution to the age of exploration. Prepares students for the AP® exam administered by the College Board in late Spring and is equivalent to an introductory college-level World History course. Available to grades 11 and 12.

**Required Materials:** Please check your current course syllabus for full required materials.

## **AP® World History B**

Begins with how history evolved from the colonies being brought into the new world. Makes connections between nations and looks at the big picture concepts of the world up to present day. Prepares students for the AP® exam administered by the College Board in late Spring and is equivalent to an introductory college-level World History course. Available to grades 11 and 12.

Prerequisite: AP® World History A

Required Materials: Please check your current course syllabus for full required materials.

#### Civics

Describes the significance of government, law, and politics. Analyzes the United States foundational documents and how they shaped the United States government. Examines the purposes and functions of the federal, state, and local government, the justice system, political systems, the environment, and the economy.

#### **Economics**

Investigates how to think like an economist using basic principles of economics. Explores different economic systems, including the American free enterprise system, and analyzes and interprets data to understand the laws of supply and demand.

#### **History of the Holocaust**

Explores the causes of the Holocaust, the experiences of Jews and other individuals during this time, and what has been done to combat genocide since WWII.

## **Human Geography: Our Global Identity**

Explains diverse ways that different people have physically influenced the world around them and how they, in turn, are changed by their surroundings. Provides insight into human geography and the important relationship between humans and their environments.

#### Personal Psychology 1: The Road to Self-Discovery

Traces the development of personality and behavior from infancy through adulthood. Provides tools to understand feelings, reactions, and motivations.

## Personal Psychology 2: Living in a Complex World

Explores how people learn and remember and investigates some common mental illnesses and their treatments. Examines personality development and the impact of stress on emotions and mental health.

**Prerequisite:** Personal Psychology 1: The Road to Self-Discovery

## Sociology 1: The Study of Human Relationships

Explores culture, group behavior, and societal institutions and how they affect human behavior. Explores how social beliefs form and how this shapes our lives.

## Sociology 2: Your Social Life

Discover how social institutions like families, religion, government, and education shape the world and how collective behavior and social movements can create change.

**Prerequisite:** Sociology 1: The Study of Human Relationships

## World Geography A

Teaches the basic skills of map reading and development, geographic technology, and the recognition of geographic themes to make sense of the world. The course examines world regions including the nations, people, and cultures of the Americas and Western Europe.

#### World Geography B

Focuses on the world regions, including the nations, people, and cultures of Central Europe and Northern Eurasia, Central and Southwest Asia, South Asia, Africa, East Asia, and the Pacific.

Prerequisite: World Geography A

## World History A

Begins with a focus on the skills needed to read, understand, and analyze history, also demonstrating how historians and social scientists arrive at their conclusions about human history. Covers the history of civilization from hunter-gatherer societies through the characteristics of the earliest civilizations. Continues to the Enlightenment Period in Western Europe.

## **World History B**

Emphasizes the effects of the Industrial Revolution and changing attitudes about science and religion, as well as the impact of European colonization. Makes connections between World War I and II and events related to the Cold War.

**Prerequisite:** World History A

## **ACADEMIC ENRICHMENT**

#### **ACT Prep**

Prepares students for the ACT®. Develops important skills that help drive improvements in ACT® test results as students learn test-taking and study habit strategies. Utilizes videos, reading passages, and practice questions, and quizzes to help students make sense of ACT® level questions. Provides opportunities to participate in synchronous lessons with a teacher. Graded on a Pass/Fail basis.

#### **Character Education**

Teaches students practical skills for understanding and managing their emotions, setting goals and getting organized, understanding and getting along with others in our diverse world, and making good decisions. Explores research that shows that people who practice these skills have greater academic achievement as students and experience more success and satisfaction as adults.

#### i-Ready Math

Gauges student's math skills through online adaptive assessments. Determines what math skills the student has mastered and what skills may need more practice. Presents individualized lessons that enable a student to become a stronger and more confident mathematician.

## i-Ready Reading

Gauges student's reading skills through online adaptive assessments. Determines what reading skills the student has mastered and what skills may need more practice. Presents individualized lessons that enable a student to become a stronger and more confident reader.

## **Independent Study**

Provides the opportunity for students to study content that is not available in the regular course catalog. Under the guidance of a sponsoring teacher, a plan of study is determined and contractually agreed upon at the start of the course. Students work independently and must be capable of doing high-quality work without the structure of a normal course. Cannot be used as a substitute for courses already available to students. Requires students to log hours and provide activity descriptions and evidence of content learned. A student may only take this course once.

**Prerequisite:** Teacher Recommendation

## Life Skills: Navigating Adulthood

Discusses how to be responsible, communicate effectively, and prepare for a future career. Explores goal setting, decision making, and surviving college and career. Explains the importance of leadership and problem solving skills. Describes the importance of financial planning and management. Reviews how personal standards affect life choices.

#### **SAT Prep**

Prepares students for the SAT® without cramming. Utilizes videos, reading passages, and practice questions and quizzes to help students make sense of SAT® level questions. Uses full-length practice tests to help students learn how to identify weaknesses in specific skill areas and then provides practice for improvement. Combines online work, videos, and synchronous lessons with a teacher. Graded on a Pass/Fail basis.

## **Study Skills and Strategies**

Equips students with skills and understandings critical to effective learning. Uses a unique approach to the traditional topic of study skills by explaining the role of the brain in learning. Provides students with action plans for assignment management, productivity, information retention, and reading comprehension.

# **AGRICULTURE, FOOD, & NATURAL RESOURCES**

#### **Agriscience 1: Introduction**

Examines how agriscientists are at the forefront of improving agriculture, food production, and the conservation of natural resources. Explains the innovative ways that science and technology are put to beneficial use in the field of agriculture and the controversies that surround agricultural practices

#### Agriscience 2: Sustaining Human Life A

Defines horticulture and its different types. Explains plant taxonomy and how we scientifically group, classify, and name plants. Covers how plants reproduce and how they can be propagated in a laboratory or garden. Reviews the different types of soil, how to improve soil, and why it is essential to plant growth.

**Prerequisite:** Agriscience 1: Introduction

**Required Materials:** Growing media, containers and seeds, sharp blade and rooting hormone, soil test kit, and pest management materials

## **Agriscience 2: Sustaining Human Life B**

Explains how irrigation systems work and about research and discoveries in irrigation science today. Presents integrated pest management approaches and how to apply proper fertilizer application components.

**Prerequisite:** Agriscience 2: Sustaining Human Life A

**Required Materials:** Growing media, containers and seeds, sharp blade and rooting hormone, soil test kit, and pest management materials

#### Forestry and Natural Resources A

Describes the historical and economic significance of forestry. Discusses photosynthesis and respiration and how forests are used by both humans and animals. Analyzes how to measure and monitor the forest to keep it healthy. Reviews the elements that can destroy forests including fire, pests, and diseases.

#### Forestry and Natural Resources B

Explains the principles of forestry economics and how timber goes from forest to market. Uses maps and a geographical information system (GIS) to interface geospatial data. Reviews the applicable local, state, and federal rules and regulations for forest management. Identifies career development and entrepreneurship opportunities in forestry and woodland ecosystems.

**Prerequisite:** Forestry and Natural Resources A

## Principles of Agriculture, Food and Natural Resources A

Identifies different careers in agriculture, food, and natural resources. Reviews agricultural organizations, such as Future Farmers of America and their importance in creating strong leadership in the agricultural field. Explains the changes that occurred with the Agricultural Revolution. Discusses the ways modern information technology supports agriculture, food, and natural resources. Explores plant breeding, hybridization, and reproduction.

## Principles of Agriculture, Food and Natural Resources B

Teaches the function of different animals in agriculture. Presents an overview of normal animal anatomy. Identifies different types of food processing and production. Reviews the engines and power tools, construction and welding, and some of the high-tech and innovative computers and skills used in agriculture. Identifies key natural resources and practices to maintain sustainability.

Prerequisite: Principles of Agriculture, Food and Natural Resources A

## **BUSINESS & MARKETING**

#### Accounting

Explains basic accounting skills and procedures both with and without a computer for general journals, general ledgers, cash payments journals, cash receipts journals, sales journals, accounts payable ledgers, and accounts receivable ledgers. Covers the basic principles of financial accounting for individuals and companies with attention to both the mathematical formulas and to the ethical side of accounting.

#### Advertising and Sales Promotion A

Explains how marketing campaigns, ads, and commercials are brought to life and the careers in this industry.

## **Advertising and Sales Promotion B**

Explores what it is like to work in the advertising and promotions field including the behind the scenes technology and principles of selling.

**Prerequisite:** Advertising and Sales Promotion A

#### **Business Communications 1a: Introduction**

Focuses on how communication can help students enhance their careers through writing, speaking, drawing and technology. Learn communication skills to address conflict and workplace culture while becoming an outstanding communicator in the professional setting.

#### Business Communications 1b: Listen, Speak, and Write in the Workplace

Expands student's professional writing skills. Focuses on communications for the business and introduces students to communication styles for applications, interviewing and presentations.

**Prerequisite:** Business Communications 1a: Introduction

#### **Business Information Management 1a: Introduction**

Provides the essential knowledge of business types, requirements to start a business, understanding of finances, business law, marketing, sales, customer service, and more.

#### **Business Information Management 1b: Data Essentials**

Examines professional conduct, teamwork, and managerial skills, while also examining careers in business technology. Explores the basics of word processing, spreadsheets, databases, and presentation software are also explored.

Prerequisite: Business Information Management 1a: Introduction

#### **Business Law 1a: Introduction**

Explores what it means to run an ethical business, how to keep intellectual property, technology, and e-commerce safe and protected. Discusses how to have a healthy workplace environment. Available for grades 11 and 12.

**Required Materials:** Video/Audio recording device (e.g. phone) Free video editing software (Canva)

## **Business Law 1b: Legal Aspects of Business**

Explores the differences between criminal and civil law. Examines how state and federal regulations work to protect consumer and employees' rights, society, and the environment. Available for grades 11 and 12.

Prerequisite: Business Law 1a: Introduction

**Required Materials:** Video/Audio recording device (e.g. phone), Canva

## **Business Ownership 1a: Introduction**

Introduces the skills you'll need in order to take your dream of owning a business to transforming it into a success! Explores foundations like generating ideas for qualifying opportunities, analyzing the market, and identifying skills for successful deployment. Investigates how to keep your business rolling and growing through effective workplace leadership and training while incorporating technological innovations to keep your business competitive.

**Prerequisite:** Entrepreneurship 1b: Make Your Idea a Reality

#### **Business Ownership 1b: Reach for the Stars**

Presents tried-and-true strategies for business success! Examines market segments, the appropriate market mix, and how to brand your business. Learn how to create a top-notch customer service environment, and calculate financial factors for the crucial first year- and every year after!

**Prerequisite:** Business Ownership 1a: Introduction

## **Entrepreneurship 1a: Introduction**

Explores fundamental business topics such as identifying the best business structure, operations, finance, business laws and regulations. Available for grades 11 and 12.

Corequisite: Principles of Business, Marketing, Finance 1b: Targeting Your Business Insight

**Required Materials:** Video/Audio recording device (e.g. phone)

#### **Entrepreneurship 1b: Make Your Idea a Reality**

Examines topics representing the major parts of a business plan such as risk, hiring, pricing, marketing a business, products, and distribution. Available for grades 11 and 12.

**Prerequisite:** Entrepreneurship 1a: Introduction

**Required Materials:** Video/Audio recording device (e.g. phone)

#### Fundamentals of Bitcoin and Cryptocurrency

Explores Bitcoin, including its history, development, and context within the modern global economy. Examines the basic cryptographic principles of Bitcoin. Introduces key principles such as mining, wallets, and hashing. Explains the industry of digital currencies and how they function.

#### International Business: Global Commerce in the 21st Century

Provides the knowledge, skills, and appreciation to live and work in the global marketplace. Discusses how both domestic and international businesses are affected by economic, social, cultural, political, and legal factors and what it takes to become a true manager of global business in the 21st century.

## Management 1a: Introduction

Explores foundational management concepts such as leadership, managing teams, entrepreneurship, global business, finance, and technology and innovation. Engages students in a capstone project that pulls together all of these concepts and applies them to a case study.

Prerequisite: Hospitality and Tourism 2b: Hotel and Restaurant Management

**Required Materials:** Video/audio recording device (e.g. phone)

## Management 1b: Insight & Oversight

Introduces the responsibilities businesses have towards customers, and hiring the right employees. Covers all aspects of human resources to ensure job satisfaction and how to take action to ensure that all the rules and laws are being followed.

**Prerequisite:** Management 1a: Introduction

Required Materials: Video/audio recording device (e.g. phone)

#### Manufacturing: Product Design and Innovation A

Identifies different types of manufacturing systems as well as career opportunities, including engineers, technicians, and supervisors. Provides information about the variety of skills needed for this industry.

## Manufacturing: Product Design and Innovation B

Analyzes engineering concepts and how to produce drawings and systems. Discusses the stages of new product development and effective marketing techniques.

**Prerequisite:** Manufacturing: Product Design and Innovation A

## Marketing 2a: Global Business and Trade

Introduces how business and marketing works around the world. Examines topics such as regulations, market research, marketing plans, global trends, and buying and selling internationally. Available for grades 11 and 12. *Prerequisite:* Marketing Foundations 1b: Building Your Base

## Marketing 2b: Developing a Sales Team

Explores the secrets of sales. Reviews expectations, best practices, sales planning, and building a clientele that become long-term buyers. Covers management styles, how to find, hire, train, motivate, and compensate employees. Available for grades 11 and 12.

**Prerequisite:** Marketing 2a: Global Business and Trade

#### **Marketing Foundations 1a: Introduction**

Examines how to identify target markets, perform market research, and develop successful marketing strategies. Explains legal and ethical considerations of business and marketing, along with the impact of government on business.

#### **Marketing Foundations 1b: Building Your Base**

Provides expertise on branding, advertising, promotion strategies, and more through real-world applications and practices. Analyzes effective sales techniques and employment opportunities to pursue a career in this field.

**Prerequisite:** Marketing Foundations 1a: Introduction

#### Medical Office Administration 1a: Introduction

Build a basic knowledge of medical terminology, medical office processes, and the technology used in medical offices. Explore different roles in the medical office.

**Prerequisite:** Business Information Management 1b: Data Essentials

**Required Materials:** Medical reference source (e.g. PubMed; free online resource), printer, scanner

#### Medical Office Administration 1b: Vital to the Front Office

Explore the types of roles available in a medical office along with the skills needed for these positions. Focus on applying skills learned to begin career in medical office administration field.

**Prerequisite:** Medical Office Administration 1a: Introduction

# Personal and Family Finance

Teaches skills needed to spend and save money wisely, invest in safe opportunities, and the key financial concepts around taxes, credit, and money management.

#### Principles of Business, Marketing, Finance 1a: Introduction

Explores different types of businesses and ownership forms, the impact of governments on business, and the marketing of goods and services. Explains globalization, free trade, and various economic systems, as well as the impact of technology on business, business ethics, and social responsibility.

#### Principles of Business, Marketing, Finance 1b: Targeting Your Business Insight

Identifies how to create a marketing strategy that promotes and attracts customers in order to sell a product or service. Explores important basics of business finance, including accounting, budgeting, and investing.

**Prerequisite:** Principles of Business, Marketing, Finance 1a: Introduction

#### **Professional Sales and Promotion 1a: Introduction**

Provides an overview of the sales profession, introducing the student to the principles of the selling process as it relates to company business practices, customer needs, clear and concise communication, and integration with business marketing functions.

Prerequisite: Marketing Foundations 1b: Building Your Base

# **Professional Sales and Promotion 1b: Secrets of Sales Success**

Builds on the foundation of Professional Sales and Promotion 1A introducing the student to more complex principles of selling to organizations. In addition, the student will learn how sales organizations are staffed, evaluated, and how analysis of industry data is used in planning to maximize sales.

**Prerequisite:** Professional Sales and Promotion 1a: Introduction

#### Sports and Entertainment Marketing A

Explores basic marketing principles while delving deeper into the sports and entertainment industry. Provides information on how professional athletes, sports teams, and famous entertainers are marketed in the 21st Century.

# **Sports and Entertainment Marketing B**

Discusses how demographics and diversity are used to create a marketing plan. Categorizes types of sponsorships and the basics of financial operations that impact the sports and entertainment industry. *Prerequisite:* Sports and Entertainment Marketing A

## **CAREER EXPLORATION & DEVELOPMENT**

## **Career Planning**

Guides students through the essential elements of the career planning process and the development of a defined career plan. Explains the factors that impact career success and satisfaction. Uses a process of investigation, research, and self-discovery, to acquire the understanding of the career planning process. Teaches how to create a practical and comprehensive college or career transition portfolio that reflects individualized skills, abilities, interests, values, and goals.

#### **Careers in Criminal Justice 1a: Introduction**

Explores criminal justice career choices and how the juvenile justice system, the correctional system, and the trial process all work together to maintain social order.

**Required Materials:** Video/Audio recording device (e.g. phone), recording and editing software (e.g. Audacity free version)

#### **Careers in Criminal Justice 1b: Finding Your Specialty**

Explores the various occupations in the criminal justice field, while simultaneously learning how they interact with each other and other first responders. Explains various interviewing techniques to uncover the truth. Reviews the importance of making ethical decisions.

**Prerequisite:** Careers in Criminal Justice 1a: Introduction

**Required Materials:** Video/Audio recording device (e.g. phone), recording and editing software (e.g. Audacity free version)

#### **Construction: Fundamentals and Careers**

Introduces standard concepts such as technical skills, project planning, and regulations. Introduces a variety of career possibilities within construction. Presents the entrepreneurial side of construction and what it takes to start and run your own business in this field. Analyzes trends in green materials, energy efficiency, and technology to determine how these will impact the homes we build and live in.

## **High School Career Discovery**

Explores possible careers students can pursue after high school and the paths that students can take to getting into those careers. Assists students in identifying their skills and begin developing a career portfolio. Required Material: Video recording device

**Required Materials:** Video/audio recording device (e.g. phone)

#### **Work Experience**

Provides a work-based learning experience to fit individual student career interests and provides the skills necessary to succeed in a future career. Requires work/volunteer hours during the semester, and students must complete monthly activities. Assignments include, but are not limited to, creating a professional resume, cover letter, job application, student portfolio, and a final reflection project. Documentation of hours worked/volunteered must be provided as requested. This course can only be taken two (2) times.

# Workplace and Internship Readiness: Preparing for Work & Life

Introduces how to build a well-rounded set of employability and personal leadership skills that allow students to guide their career path. Covers communication skills, taking initiative, setting goals, and problem solving

## COMMUNICATION & AV TECHNOLOGY

## Digital Media Fundamentals 1a: Introduction

Teaches the building of digital media applications using text, graphics, animations, sounds, and videos. Introduces typography, color theory, design, podcasts, and manipulation. Reviews careers that use digital media skills.

**Required Materials:** Video/Audio recording device (e.g. phone), USB cable, Vecteezy, Powtoon, and Canva accounts, GIMP (free download) or Adobe Photoshop software

## Digital Media Fundamentals 1b: Producing for the Web

Incorporates creative ideas into websites and presents the basics of marketing. Explores the world of podcasts and audio editing to construct a solid foundation in this field.

**Prerequisite:** Digital Media Fundamentals 1a: Introduction

## Digital Media Web Design 2a: Build a Portfolio Website

Explores how to develop web pages that embed different media and interactivity for an excellent user experience through programming languages such as HTML and CSS. Examines trends and opportunities, education requirements, student organizations, and industry certification options. Available for grades 11 and 12.

Prerequisite: Digital Media Fundamentals 1b: Producing for the Web

# Digital Media Web Design 2b: Build an eCommerce Website

Describes trends, design principles, and security strategies of an e-commerce site. Explores what it means to adhere to ethical and legal requirements and how to comply with industry standards and accessibility. Available for grades 11 and 12.

**Prerequisite:** Digital Media Web Design 2a: Build a Portfolio Website

**Required Materials:** Color palette picker (like Adobe's at color.adobe.com), GUI-based web page builder (free options available), Access to two social media platforms

#### Journalism 1a: Introduction

Develops strong writing, critical thinking, and research skills to perform interviews and write influential pieces, such as articles and blog posts. Analyzes the evolution of journalism and its ethics, bias, and career directions to forge a path in this field.

# Journalism 1b: Investigating the Truth

Demonstrates how to choose a topic, structure a story, research facts, improve observational skills, and write an article following journalism tradition. Explores how journalism goes beyond the print world and can lead to exciting careers.

Prerequisite: Journalism 1a: Introduction

#### **Learning in a Digital World: Strategies for Success**

Describes the best ways to find, create, and share information, while maximizing communication technologies. Provides tools to be a successful online student and explores digital content creation, from emails and blogs to social media, videos, and podcasts.

#### **Media & Communications**

Identifies the many facets of mass media and how it shapes every aspect of life. Examines the role of newspapers, books, magazines, radio, movies, television, and the influence of Facebook, YouTube, and Twitter.

#### **Professional Communication**

Focuses on communication in many forms—written, oral, graphic, and technological—in the workplace to enhance career options while learning how to address conflict and communicate with cultural competency. Learn the techniques needed to be a standout communicator in a professional setting.

#### Social Media: Our Connected World

Explores the ins and outs of social media platforms such as Facebook, Twitter, Pinterest, YouTube, and more. Evaluates methods for how to use them personally, academically, and professionally.

## **ENGINEERING & TECHNOLOGY**

## **Applied Engineering 1a: Introduction**

Introduces how technology has changed the world around us. Uses scientific and engineering methods to learn how electricity, electronic systems, magnets, and circuits work. Explains the design process and how engineering advances ideas to improve the world.

## **Applied Engineering 1b: Solving Problems Together**

Explores how applied engineering has advanced areas such as energy, transportation, health and genetics, alternative energy, food packaging, etc. Explains how various inventions and solutions have solved problems across industries. Examines how artificial intelligence and technology are making an impact on breakthroughs. Reviews the range of robotic and STEM-related careers.

Prerequisite: Applied Engineering 1a: Introduction

**Required Materials:** Video/Audio recording device (e.g. phone), Software Tinkercad (requires login)

#### **Building Maintenance Technologies I**

Focuses on all aspects of the construction industry from health and safety to the tools that every construction professional needs in their collection. Explores various roles in the industry as well as job outlooks, educational and experiential requirements, and salary information. Introduces basic construction math and how it is applied. Reviews specifics about carpentry, construction drawings, framing floor systems, framing walls, and framing roofs.

## **Building Maintenance Technologies II**

Focuses on construction components, masonry skills, and OSHA. Examines the various masonry and concrete skills as well as safety measures. Presents activities using a real-world application of learned skills with hands-on components. Investigates erecting, plumbing, and bracing in relation to concrete as well as laying masonry units. Introduces important science skills for the construction industry and prepares students for OSHA 30-hour certification.

Prerequisite: Building Maintenance Technologies I

# Concepts of Engineering and Technology A

Introduces the different branches of engineering, the technological terms used in the field, and tech developments from the past. Explains how problem-solving, sketching, collaboration, and experimentation are used in the engineering field.

# **Concepts of Engineering and Technology B**

Reviews the career opportunities and emerging technologies for mechanical, chemical and biological engineering. Presents the idea of impossible engineering and innovative technologies

**Prerequisite:** Concepts of Engineering and Technology A

#### **Drones: Remote Pilot**

Prepares students for the Federal Aviation Administration's Drone Part 107 Exam. Examines critical facts, regulations, airspace, weather, loading and operations. Concludes with a look at the most promising careers in the field of drones. Students that desire to sit for the exam must be a minimum of 16 years old; certification exam is not a course requirement. Available for grades 11 and 12.

#### **Principles of Architecture**

Reviews various concepts used in the design and architecture field. Introduces basic drafting equipment and how to use and maintain it. Analyzes challenges and solutions within the development of design. Explores AutoCAD software to manually create drawings. Presents processes so that students develop an understanding of creating and annotating drawings.

Required Materials: AutoCAD

# Renewable Technologies: Introduction A

Introduces renewable energy technologies and why they are important. Discusses global warming and how it causes climate change. Explains the history and infrastructure of electrical power. Reviews the history and social debate of nuclear power. Examines geothermal and hydroelectric energy.

# Renewable Technologies: Introduction B

Defines solar energy and how it is harnessed. Describes wind technologies and how it has been used historically. Examines different biofuel options.

Prerequisite: Renewable Technologies: Introduction A

#### **Robotics 1a: Introduction**

Explores the physics, mechanics, motion, and the engineering design and construction aspects used to develop robots. Teaches how models are created through both sketches and software. Introduces STEM careers and the education needed to enter this high-demand field.

**Prerequisite:** Applied Engineering 1b: Solving Problems Together

**Required Materials:** Sound and video recording device, digital camera or scanner. Software requiring login: Google Drawing, Onshape and CoppeliaSim Edu.

#### **Robotics 1b: Intelligent Robots**

Teaches how to manipulate electrical signals to create logic and memory, how to quantify the physical world through variables, and how to have an impact through tools. Introduces how to choose the best tools and materials, how to create AI, and how to take an idea from initial planning to a completed project.

**Prerequisite:** Robotics 1a: Introduction

**Required Materials:** Arduino hardware kit (59.99). Software: Arduino IDE, Tinkercad, Teachable Machine. This course is not compatible with a Chromebook or tablet.

#### Robotics 2a: Design a Robot

Solve engineering design problems and build on engineering and robotics principles learned in previous courses. Learn how to design unique robots designed to complete specific tasks.

**Prerequisite:** Robotics 1b: Intelligent Robots

**Required Materials:** ELEGOO UNO R3 Project Smart Robot Car Kit V 4.0 with remote control, digital camera, video/audio recording device (e.g. phone), black paper, colored tape, chart paper, whiteboard and software (Tinkercad, EleRobot app, and photo editing software)

#### **Robotics 2b: Build Your Robot**

Design robots, fix problems, and improve robot designs through advanced applications and systems. Use models and simulations to enhance your robots and study real-world safety reviews.

**Prerequisite:** Robotics 2a: Design a Robot

**Required Materials:** Digital camera, art supplies, video/audio recording device (e.g. phone), ELEGOO UNO R3 Project Smart Robot Car Kit V 4.0, Arduino board, ultrasonic motion sensor, line tracking sensor, jumper leads or wires, ruler, and software (TinkerCAD; Arduino IDE; VEXcode VR; and image-editing software)

#### **Wearable Technology Innovations**

Introduces students to wearable technologies and the components and software that make these technologies possible. Evaluates several applications of wearable technologies in various industries. Examines and discusses the implications of wearable technology, including its pros and cons, and potential implications to our health, privacy, and society.

## ENGLISH LANGUAGE ARTS

#### **Gothic Literature: Monster Stories**

Explores the techniques writers use to produce a thrilling psychological experience for the reader. The themes of terror versus horror, the power of the supernatural, and the struggle between good and evil are just a few of the classic gothic subjects explored in this course.

## **Mythology and Folklore: Legendary Tales**

Reviews mythology and different types of folklore and the universality and social significance of myths and folklore. Examines how these tales continue to shape society today.

# **Reading and Writing for Purpose**

Introduces useful, real-world tools for reading legal, insurance, employment, and vehicle-related documents. Examines media bias, trends in journalism, word structures, research strategies. Explains how to critically read and identify good sources of information.

#### The Lord of the Rings: An Exploration of the Films and Their Literary Influences

Explores the popular novels and movies The Lord of the Rings. Compare the movie versions of J.R.R. Tolkien's novels to the films. Explores fantasy literature as a genre and introduces methods to critique the three Lord of the Rings films.

**Required Materials:** Standard editions of the three Lord of the Rings films: The Lord of the Rings: The Fellowship of the Ring, The Lord of the Rings: The Two Towers, and The Lord of the Rings: The Return of the King

## **HEALTH CARE SCIENCES**

#### Allied Health Assistant 1a: Introduction

Explores how to care for patients and provide for the administrative needs of healthcare. Learn to prepare exam rooms, schedule, bill, and document all while solidifying your professional skills in communication, privacy, safety, and ethics.

**Prerequisite:** Anatomy and Physiology 1b: Discovering Form and Function

Required Materials: Video/audio recording device (e.g. phone)

#### Allied Health Assistant 1b: Skills and Specialties

Introduces different health care professionals who provide a range of skills in the fields of dentistry, pharmaceutical, medicine, nursing, nutrition, and rehabilitation. Investigates careers in radiology, lab technicians, cardiology, surgery, and other exciting medical fields.

Prerequisite: Allied Health Assistant 1a: Introduction

**Required Materials:** Video/audio recording device (e.g. phone)

#### **Biotechnician 1a: Introduction**

Explores lab safety, biologicals basics, how to perform crucial experimentation tasks, and essentials of biotechnology careers.

**Required Materials:** Video/audio recording device (e.g. phone); Lab materials including; Transparent cups, chemical disinfectant, PPE: (e.g. rubber gloves, safety glasses, lab coat), food items (will need to purchase lab ingredients), 9 volt batteries, gel comb or crafting popsicle sticks and coffee stirring rods, alligator clips with wires, 12 inches - stainless-steel wire, 16 gauge, or copper wire (all metal), measurement tools: p20 micropipette, micropipette tips, balance, scale, volumetric measuring devices such as a beaker, graduated cylinder and measuring cups

# Biotechnician 1b: Advancements in Biotechnology

Explores how topics such as how genetics and epigenetics influence human traits, the creation and purpose of recombination of DNA, and how human immune system can be modified to fight disease. Provides overview of how biotechnology is used in agriculture and the future.

Prerequisite: Biotechnician 1a: Introduction

#### **Biotechnology 1a: Introduction**

Encompasses everything from plant and animal breeding to genetics. Explains how biotechnology has changed the world from food to genetics. Explores historical applications with modern discoveries.

#### **Biotechnology 1b: Unlocking Nature's Secrets**

Describes how and why biotechnology is so important to the agricultural, pharmaceutical, and genetic fields of study. Focuses on mapping the human genome, the role of antibiotics, how medicine is created to combat diseases, and the future of the biotechnology field.

Prerequisite: Biotechnology 1a: Introduction

#### **Dental Assistant 1a: Introduction**

Introduces how to become a Dental Assistant which can offer the student a rewarding career as well as job security. Explores the different roles within a dentist's office, organizations to get involved with, and basic head, neck, and dental anatomy. Learn what it takes to embark on a career sure to provide personal and professional fulfillment.

**Prerequisite:** Anatomy & Physiology 1a, Anatomy & Physiology 1b, OR Medical Terminology 1a: Introduction and Medical Terminology 1b Discovering Word Foundations **Required Materials:** Video/audio recording device (e.g. phone)

#### **Dental Assistant 1b: Principles of Clinical Dentistry**

Dives deeper into what it's like to be a dental assistant. Learn about the daily duties of a dental assistant including the structure of an office visit, managing patient records, and administrative aspects of the role. Explore how patient health can impact oral health, how to prepare for and perform a patient visit, and how to succeed in a team environment. Continue polishing those skills to become a dental assistant today!

**Prerequisite:** Dental Assistant 1a: Introduction

Required Materials: Video Recording Device, Folders, Camera, Audio Recording Device, Printer

#### **Emergency Medical Responder 1a: Introduction**

Introduces the day-to-day, fast-paced life of an EMR and how their roles and responsibilities fit into the larger picture with Emergency Medical Services. Explores how to conduct a patient assessment when you arrive on a scene and assess and treat various medical emergencies.

**Prerequisite:** Anatomy and Physiology 1b: Discovering Form and Function

#### **Emergency Medical Responder 1b: Prepared for Action**

Explores how to care for diverse patients in unique and even difficult situations. Focuses on advanced trauma situations, pregnancy & Diddbirth, mass casualties, and mental health crisis intervention. Examines how to care for, treat, move, and transport patients in various situations and play a vital role as part of an EMS response team.

**Prerequisite:** Emergency Medical Responder 1a: Introduction

**Required Materials:** Video and audio recording device, such as a phone.

#### Health Science Foundations 1a: Introduction

Provides foundational knowledge required to pursue a career in the healthcare industry, and the education, training, and credentials needed to attain them. Identifies basic medical terminology, principles of anatomy and physiology, and legal and ethical responsibilities.

# **Health Science Foundations 1b: Professional Responsibilities**

Analyzes the responsibilities for ensuring patient and personal safety with special attention paid to emergency procedures. Examines infection control, first aid, CPR, and measuring a patient's vitals. Summarizes uses for numerical data, such as systems of measurement, medical math, and reading and interpreting charts.

Prerequisite: Health Science Foundations 1a: Introduction

#### Health Science: Nursing A

Explores communication and ethics, anatomy and physiology, and the practice of nursing. Describes the laws and standards that nurses must follow when working with patients.

#### Health Science: Nursing B

Provides information on a day in the life of a nurse and the different assessments and evaluations all nurses utilize. Explores tools to build relationships with individuals, families, and communities, and how to develop wellness strategies for patients.

Prerequisite: Health Science: Nursing A

#### **Health Science: Public Health**

Explores the role current and future technologies play worldwide and considers the ethics and governance of health on a global scale. Discusses unique career opportunities and fascinating real-life situations.

#### **Medical Assistant 1a: Introduction**

Introduces the knowledge needed to be a Medical Assistant, including medical terminology, anatomy and physiology, and insight into the day-to-day life of a medical assistant. Discusses various health care settings, common diseases and disorders, and how technology supports health care providers.

**Prerequisite:** Anatomy & Physiology 1a: Introduction and Anatomy & Physiology 1b OR Medical Terminology 1a: Introduction and Medical Terminology 1b: Discovering Word Foundations

#### Medical Assistant 1b: Medical Assisting in Action

Builds on knowledge learned from Medical Assistant 1a with a focus on patient care, pharmacology, and laboratory testing. Deepens a student's understanding of how law and business influence a patient's care.

**Prerequisite:** Medical Assistant 1a: Introduction

#### Medical Diagnostic Technology 1a: Introduction

Introduces the different diagnostic technology used and essential body systems and fluids that need to be understood to make an accurate diagnosis of a disease, condition, or illness. Examines how to maintain a safe environment, infection control procedures, radiation safety, positive patient interactions and medical imaging. *Prerequisite:* Anatomy and Physiology 1b: Discovering Form and Function

**Required Materials:** Camera or computer with video recording capabilities.

# Medical Diagnostic Technology 1b: Exploring Systems & Procedures

Analyzes different diagnostic technology, procedures, essential body systems, and fluids that need to be understood to make an accurate diagnosis of a disease, condition, or illness. Investigates how an x-ray works, systems of the lungs and heart, EKG's and cardiac monitoring tools, and other diagnostic imaging tools.

**Prerequisite:** Medical Diagnostic Technology 1a: Introduction

**Required Materials:** Thermometer, graph paper and a stopwatch.

#### **Medical Lab Assisting 1a: Introduction**

Introduces the role of a medical lab assistant. Discover just what it takes to become a medical assistant from drawing blood to managing specimens and staying safe in the lab.

**Prerequisite:** Anatomy & Physiology 1a: Introduction and Anatomy & Physiology 1b OR Medical Terminology 1a: Introduction and Medical Terminology 1b: Discovering Word Foundations

#### Medical Lab Assisting 1b: Clinical Lab Safety and Procedures

Provides a deeper look into patient care and procedures, testing and care coordination, pharmacology and safety, and laws surrounding clinical laboratories. Offers students a chance to narrow their areas of interest, suggests research organizations to shadow, and prepares students for certification.

**Prerequisite:** Medical Lab Assisting 1a: Introduction

**Required Materials:** Common household items related to completing labs, including: digital camera and video recording device, measuring devices (e.g. teaspoons, dry ingredient measuring cups), PPE substitutes found at home (e.g. gloves, masks), USCS ruler or measuring tape, sterilization equipment, common kitchen ingredients (e.g. vinegar, baking soda, pre-packaged frozen food)

#### Medical Terminology 1a: Introduction

Explores the language that is essential for careers in health science. Explores how to use word parts to form medical terms, make associations within body systems, and how to better communicate with colleagues and patients.

#### **Medical Terminology 1b: Discovering Word Foundations**

Expands on the medical terminology associated with even more body systems to master prefixes, suffixes, and roots. Connects this language to real-world patients and clinical settings through practical applications and specific scenarios.

**Prerequisite:** Medical Terminology 1a: Introduction

# **Nursing Assistant 1a: Introduction**

Introduces healthcare career options and the ethical and legal responsibilities in healthcare. Explores effective communication as part of the healthcare team. Examines anatomy and physiology, patient care, and safety.

**Prerequisite:** Anatomy and Physiology 1b: Discovering Form and Function

**Required Materials:** Video and audio recording device, such as a phone, props to demonstrate proper patient care, and materials to build a model.

#### **Nursing Assistant 1b: Patient Care**

Examines how to communicate and work with a healthcare team to ensure a safe environment, prevent and control infectious diseases, and advocate for patient's rights. Introduces how vital signs are obtained and used in patient care. Explores more complex patient care situations such as nutritional support, terminal illness, and post-mortem care.

**Prerequisite:** Nursing Assistant 1a: Introduction

**Required Materials:** Video and audio recording device, such as a phone, props to demonstrate proper patient care, and materials to build a model.

#### **Pharmacology 1a: Introduction**

Provides an overview of the principles of pharmacology, including the study of medications and their effects on different biological systems. Focuses on preparing students for further studies in the field of medicine or pharmaceuticals.

**Prerequisite:** Anatomy and Physiology 1b

#### Pharmacology 1b: Analysis and Effects

Applies the foundations of Pharmacology 1a to learn about the study of medicine and treatments available to patients. Discover available medications for specific diseases, the way medications work in the body, different drug classifications, the law behind administering drugs, and what a career in pharmacology can look like.

Prerequisite: Pharmacology 1a: Introduction

# **Sports Medicine 1a: Introduction**

Introduces some of the most popular career pathways, day-to-day responsibilities, and legal obligations for this field. Explores nutrition, healthy lifestyle, fitness and emergency care for athletes. Develops an understanding of human anatomy, human biomechanics, and exercise modalities.

**Prerequisite:** Anatomy and Physiology 1b: Discovering Form and Function

**Required Materials:** Video recording device

## **Sports Medicine 1b: Injury Prevention**

Expands understanding of the human body to provide a greater context for injury in a variety of scenarios. Explains how to evaluate an injury, onsite tests to perform, and when to refer a patient to a medical professional. Explores the anatomy of specific body areas to better understand injuries that may occur as well as ways to prevent injury.

**Prerequisite:** Sports Medicine 1a: Introduction

Required Materials: Basic exercise equipment (mat, towel, weight bench, etc.)

#### **Sports Medicine 2a: Working With Clients**

Introduces the principles of fitness and sports medicine from nutrition to how the body works to types benefits and risks of a range of exercises. Explore how to care for clients and help set them up for success while developing exercise programs and nutrition plans.

**Prerequisite:** Sports Medicine 1b: Injury Prevention

## **Sports Medicine 2b: Personalizing Your Practice**

Explores the world of group fitness training, rehabilitation and physical therapy, including how to modify exercises for various injuries. Introduces the ins and outs of opening and managing a fitness center including ethics, trends, and professional conduct.

**Prerequisite:** Sports Medicine 2a: Working With Clients

## **HOSPITALITY & TOURISM**

#### **Culinary Arts 1a: Introduction**

Provides basic cooking and knife skills while preparing for entry into the culinary world. Presents the history of food culture, food service, and global cuisines while learning about food science principles and preservation. Builds the professional, communication, leadership, and teamwork skills that are crucial to a career in the culinary arts.

Required Materials: Wide variety of kitchen tools and ingredients

# **Culinary Arts 1b: Finding Your Palate**

Provides the tools to elevate culinary skills through the creation of stocks, soups, sauces, and new baking techniques. Examines sustainable food practices and the benefits of nutrition while maintaining taste and presentation.

**Prerequisite:** Culinary Arts 1a: Introduction

**Required Materials:** Wide variety of kitchen tools and ingredients

#### Culinary Arts 2a: Baking, Pastry, and More!

Builds a strong foundation for baking and creating desserts. Focuses on baking a variety of foods, including bread, pie, and cake, and explores careers in pastry arts.

**Prerequisite:** Culinary Arts 1b: Finding Your Palate

**Required Materials:** Variety of kitchen tools and ingredients

#### Culinary Arts 2b: Baking, Pastry, and More!

Discusses nutrition and sustainability in the food industry. Identifies ingredients and meals from a global perspective and dissects the business of cooking, from managing a kitchen to successfully running a catering company.

**Prerequisite:** Culinary Arts 2a: Baking, Pastry, and More! **Required Materials:** Variety of kitchen tools and ingredients

#### **Food Safety**

Introduces food industry and the procedures needed to maintain a safe environment for staff and guests. Learn food preparation safety, how to prevent foodborne illness from spreading, and how to correctly set up a food service facility. Explore a vast array of job opportunities in the food industry.

# Hospitality and Tourism: Traveling the Globe A

Introduces a thriving industry that caters to the needs of travelers through managing hotels and restaurants. Defines a variety of career options in the hospitality industry and what personal characteristics an employer will be looking for.

# Hospitality and Tourism: Traveling the Globe B

Considers a wide range of tourism and travel planning including event planning, ecotourism, cruises, and theme parks. Identifies some of the challenges for resorts and cruises and the future of these industries.

Prerequisite: Hospitality and Tourism: Traveling the Globe A

#### Hotel Management 1A: Introduction

Explore the essential functions of a hotel from bookings, management systems, front and back of house operations, technologies, and more. Discover what it takes to keep guests happy and run a sustainable hospitality program.

**Prerequisite:** Hospitality and Tourism B: Traveling the Globe

**Required Materials:** Access to a kitchen, video/audio recording device (e.g. phone)

# Hotel Management 1B: Exploring the Industry

Examine hotel organization from structure to departments and staffing needs. Explore management and leadership including management styles, roles, and responsibilities, as well as technical and communication management skills. Investigates the big picture of the travel and tourism industry, how to handle emergencies, growth and sustainability, laws and ethics, careers in the industry.

**Prerequisite:** Hotel Management 1A: Introduction

**Required Materials:** Video/audio recording device (e.g. phone)

## Hospitality and Tourism 2a: Hotel and Restaurant Management

Discusses what makes the hotel and restaurant industries unique. Compares large and small restaurants, boutique and resort hotels, and their day-to-day operations. Explores a variety of interesting job options from front desk and concierge services to maître d and food service.

## Hospitality and Tourism 2b: Hotel and Restaurant Management

Develops knowledge about different management styles, laws, and regulations that govern hotels and restaurants as well as how to develop job descriptions and business plans. Teaches how to create menus, advertise vacancies, perform interviews, and understand the financials of the hotel or restaurant.

Prerequisite: Hospitality and Tourism 2a: Hotel and Restaurant Management

#### **Restaurant Management**

Explores what's needed to run a successful restaurant, including ordering supplies, hiring quality workers, maintaining inventory, and managing a large staff. Examines topics including food safety, hygiene, customer relations, marketing, and using a point-of-sale system.

## **HUMAN SERVICES**

#### **Cosmetology 1a: Cutting Edge Styles**

Introduces the field of cosmetology, including specializations, careers, and global trends. Discusses the relationship between cosmetology and medicine with a focus on anatomy. Identifies steps that cosmetologists need to take to keep their clients safe and healthy. Explores professional standards and ethics. Reviews common procedures performed by cosmetologists, including those involving hair, skin, nails, and hair removal.

## **Cosmetology 1b: Cutting Edge Styles**

Identifies the tools used in various branches of cosmetology. Covers business basics, including how to build and maintain a client base. Discusses how technology can help anticipate client needs and trends. Explains the different qualities of skin and skin care. Examines the business side of the field, including marketing with social media and managing inventory.

Prerequisite: Cosmetology 1a: Cutting Edge Styles

#### Cosmetology 2a: The Business of Skin and Nail Care

Explores how to become a salon professional, from communicating well to keeping the workplace safe. Teaches the basics of professional nail care, products, tools, and how to take care of natural, acrylic, and gel nails. Explains the different specialty spa treatments.

**Prerequisite:** Cosmetology 1b: Cutting Edge Styles

**Required Materials:** Extensive variety of cosmetology tools and supplies, review prior to starting course

#### Cosmetology 2b: The Business of Skin and Nail Care

Teaches how to perform facials by using the proper products and techniques. Compares the different types of hair removal techniques. Reviews professional makeup application styles. Requires students to demonstrate waxing and makeup application techniques.

**Prerequisite:** Cosmetology 2a: The Business of Skin and Nail Care

**Required Materials:** Extensive variety of cosmetology tools and supplies, review prior to starting course

#### Cosmetology 3a: Introduction to Hair Skills

Reviews hair types, face shapes, color theory, and teaches how to perform hair, scalp, and skin analysis. Examines color techniques with an emphasis on salon and chemical safety, wigs, extensions, hairpieces, hair styling, and cutting techniques. Teaches manual curling and the use of chemicals to curl and straighten hair. Students will be working with chemicals and required to demonstrate hair cutting techniques.

**Prerequisite:** Cosmetology 2b: The Business of Skin and Nail Care

**Required Materials:** Extensive variety of cosmetology tools and supplies, review prior to starting course

#### Cosmetology 3b: Waving, Coloring, and Advancing Hair Skills

Dives into the realm of hairstyles and cutting techniques. Reviews barbering techniques. Explores a variety of wigs, extensions, and hairpieces. Teaches how to use chemicals to curl and straighten hair. Students will be working with chemicals and required to demonstrate hair cutting techniques.

**Prerequisite:** Cosmetology 3a: Introduction to Hair Skills

**Required Materials:** Extensive variety of cosmetology tools and supplies, review prior to starting course

# **Early Childhood Education 1a: Introduction**

Explores the fundamentals of childcare, like nutrition and safety, but also the complex relationships caregivers have with parents and their children. Examines the various life stages of child development and the best educational practices to enrich young minds.

#### Early Childhood Education 1b: Developing Early Learners

Teaches the importance of play and how to use it to build engaging educational activities that build literacy and math skills through each stage of childhood. Explains how to create and maintain a well-controlled classroom. Explores communication skills and how to observe and record. Reviews the planning and delivery of an appropriately designed curriculum.

**Prerequisite:** Early Childhood Education 1a: Introduction

#### **Human and Social Services 1a: Introduction**

Explores the need for, goals of, and careers of human and social service workers. Compares how human service roles have changed over time and the current service delivery models. Reviews guidelines to maintain physical wellbeing, nutrition, and mental health. Discusses family structures, functions, and rituals.

#### **Human and Social Services 1b: Introduction**

Reviews the skills necessary for family to thrive and how to find community agencies that can support families. Analyzes how diversity and ethics affect individual cases, especially concerning at-risk populations. Identifies the professional qualities needed in human service careers. Defines laws and regulations that affect the field. Discusses current trends in the human service field by comparing Western and alternative medicine and outlining the use of technology tools for wellness.

**Prerequisite:** Human and Social Services 1a: Introduction

## **Peer Counseling**

Explains the role of a peer counselor and the skills of observation, listening, and empathetic communication that counselors need, while also discovering basic training in conflict resolution and group leadership.

#### **Personal Leadership**

Introduces the necessary social skills to build healthy and supportive relationships. Teaches responsible decision making, as well as how emotions, thoughts, and values influence behavior. Explores how people have different perspectives and how to empathize with others.

## INFORMATION TECHNOLOGY

#### **Advanced Networking 1a: Introduction**

Learn about a variety of different networks, their layers, and the different needs they address. Discover how to set up network connections, techniques to troubleshoot and think strategically and learn how to become an effective communicator in the workplace.

**Prerequisite:** Introduction to Networking 1b: Network Oversight **Required Materials:** Video/audio recording device (e.g. phone)

#### **Advanced Networking 1b: Protecting Your Network**

Investigates how networks work. Examines how to manage traffic, transmissions, and users based on the needs of the business and what decisions go into building the best network possible. Explore types of attacks and what it takes to prepare for, monitor, and repair the damage made by attacks.

**Required Materials:** Video/audio recording device (e.g. phone)

#### **Augmented and Virtual Reality Applications**

Introduces the technologies that underpin AR/VR systems. Explores the five applications of AR/VR and how they will change and impact numerous aspects of our lives and the economy. Discusses the risks and side effects of these systems, including health, privacy, and ethical implications. Available for grades 10 through 12.

## **Cloud Technologies and the Internet of Things**

Discusses the trends and opportunities surrounding the Internet of Things (IoT). Examines the technologies, hardware, and software that underpin the IoT. Reviews a variety of end-market applications in homes, businesses, and cities.

# **Computer Maintenance 1a: Introduction**

Learn how computers are set up starting with the software and operating systems and what to do when hardware and software issues are encountered. Explores different types of data communication, various power supply units, essential components like motherboards and memory.

Required Materials: Video recording device.

#### **Computer Maintenance 1b: Network Needs**

Discover computer networks and their extensive capabilities. Explores data exposure and how to mitigate threats, discusses the fundamentals of network design and layout, how cloud-based services store data, and the differences between wired and wireless networks.

Prerequisite: Computer Maintenance 1a: Introduction

#### **Excel: Office Fundamentals Series**

Describes how Excel can manage information in both personal and business environments by configuring data in a variety of Excel formats using formulas, charts, and tables. Meets requirements for the Microsoft Office Suite certification exam.

Required Materials: Microsoft Office 2019, or an Office 365 subscription

#### Foundations of Game Design 1a: Introduction

Introduces the principles of game design through the stages of development, iterative process, critiques, and game development tools.

**Prerequisite:** Principles of Information Technology 1b: Working with Computers

**Required Materials:** Not compatible with Chromebooks or tablets

#### Foundations of Game Design 1b: Storytelling, Mechanics, and Production

Develops game creation skills and practice with the tools professionals use to launch career options in the field of game design.

**Prerequisite:** Foundations of Game Design 1a: Introduction

**Required Materials:** Not compatible with Chromebooks or tablets. Webcam, Video Recording Device, Color Printer

#### Game Design 2a: Build a World

Begins with conceptualization and the design process to develop a game's story elements, narrative, plot, characters, and assets. Uses game design software to bring the game to life by applying lighting, audio, visual effects and player choice options. Available for grades 10 through 12.

**Prerequisite:** Foundations of Game Design 1b: Storytelling, Mechanics, and Production

Required Materials: Video/Audio recording device (e.g. phone), Weebly

#### Game Design 2b: Launch a Game

Builds upon the groundwork from the student designed runner game. Explores atmospheric landscapes, mountain runs, stair builds, and implements obstacles to keep your relic safe. Analyzes the game by testing and evaluating it prior to launch.

Prerequisite: Game Design 2a: Build a World

**Required Materials:** Required software: Unity, LTS Release 2019.4.8f1, graphic design software and Google Drawings.

# Game Design for Chromebooks 1a: Introduction

Explores the fundamentals of game design including scripting in JavaScript, game mechanics, audio editing, storytelling, and game world development. Applies skills to build an arcade-style galactic adventure game using PlayCanvas. Designed for students that are working with a Chromebook and not a computer.

**Prerequisite:** Principles of Information Technology 1b: Working with Computers

**Required Materials:** Digital camera, and the following software: PlayCanvas, Google drawing, Pixilart, Leshy Labs SFMaker.

# Game Design for Chromebooks 1b: From Prototype to Product

Builds on your prototype by focusing on techniques that add difficulty but also increase the fun of a game. Introduces the impacts of gaming on society in relation to business, finance, and public health. Explores how to understand your audience's needs and potential immersive elements as well as the alignment and flow of your game progression. Explains techniques used to maintain player engagement within a game project. Culminates with the design of an online portfolio to showcase work and abilities.

**Prerequisite:** Game Design for Chromebooks 1a: Introduction

**Required Materials:** Digital camera, and the following software: PlayCanvas, Google drawing, TinkerCAD and WordPress.

## **History of Gaming and Esports**

Examines the impact of video games on culture and the economy. Explores the current gaming and e-sports landscape, including strategies and techniques of top teams and individuals. Covers the risks and dangers of video games and how to set appropriate time and content parameters. Identifies career paths and opportunities for those who are passionate about gaming. Available for grades 8 through 12.

#### Intro to Java Programming

Teaches Java programming with multiple projects, both in the console and user interface, including mad libs, player vs computer games, battleship, tic-tac-toe, picture shuffler, and many more. Provides an intensive experience in Java by creating multiple stand-alone programs.

#### **Introduction to Artificial Intelligence**

Reviews the building blocks and components of artificial intelligence, including concepts like algorithms, machine learning, and neural networks. Explores how AI is already being used and evaluates problem areas of AI, such as bias. Examines AI's impact on existing jobs, as well as its potential to create new and exciting career fields in the future.

#### Introduction to Networking 1a: Introduction

Explores the fundamentals of networking, including the different parts of a computer and hardware, network operating systems, and teaches how common network devices can be connected. Provides opportunities to make network cables. Available for grades 10 through 12.

**Prerequisite:** Principles of Information Technology 1b: Working with Computers

**Required Materials:** Materials to create different types of ethernet cables (~\$45), Digital camera device (Camera or Smartphone), EZ RJ45 crimp tool (~\$16); EZ RJ45 connectors (~\$13); Network cable tester (~\$7); Cat5e cable (6 foot) (~\$6), Image editing software

# Introduction to Networking 1b: Network Oversight

Explains how to set up a network, troubleshoot problems and how to monitor network security, infrastructure, and performance. Teaches how to contribute and create policies and procedures. Available for grades 10 through 12.

Prerequisite: Introduction to Networking 1a: Introduction

**Required Materials:** Materials to create different types of ethernet cables (~\$45), Digital camera device (Camera or Smartphone), EZ RJ45 crimp tool (~\$16); EZ RJ45 connectors (~\$13); Network cable tester (~\$7); Cat5e cable (6 foot) (~\$6), Image editing software

#### Introduction to Programming 1a: Introduction

Explores the software development life cycle from start to finish. Examines programming skills with Python. Introduces the power of data and algorithms along with their influence on the world.

**Prerequisite:** Principles of Information Technology 1b: Working with Computers

**Required Materials:** This course is not compatible with a Chromebook. Students will need the ability to create free accounts on multiple sites for use during the course.

# Introduction to Programming 1b: Problem Solving Through Programming

Expands knowledge of how programming can solve a vast array of problems. Learn how to plan and develop a problem-solving program while performing testing, debugging, and quality assurance procedures. Examines how to design and plan your own app as part of a final project.

**Prerequisite:** Introduction to Programming 1a: Introduction

**Required Materials:** This course is not compatible with a Chromebook. Students will need the ability to create free accounts on multiple sites for use during the course.

#### **JavaScript**

Develops an understanding of how to start programming with JavaScript. Teaches the basics of JavaScript including testing, functions, objects, arrays, loops, conditional code, operators, and syntax basics.

**Required Materials:** HTML Text Editor, Image editing: Pixlr or GIMP, Web Hosting on Neocities. Not tablet compatible

# Keyboarding

Introduces new keys by rows where students first learn the middle row, then the top row, and the bottom row of the keyboard. Assumes no keyboarding experience.

Required Materials: Device with a keyboard

#### **Network Security Fundamentals 1a: Introduction**

Explains network security and how to identify potential vulnerabilities. Provides methods for protecting against attacks and creating a disaster and response plan if breaches do occur. Available for grades 11 and 12.

**Prerequisite:** Principles of Information Technology 1b: Working with Computers

**Required Materials:** Video/Audio recording device (e.g. phone)

#### **Network Security Fundamentals 1b: Forensics and Permissions**

Explores cyber forensics, encryption, cryptography, and cryptology, user and password management to mitigate large data breaches, vulnerabilities, and security issues. Examines potential career paths. Available for grades 11 and 12.

Prerequisite: Network Security Fundamentals 1a: Introduction

#### **Outlook: Office Fundamentals Series**

Demonstrates Outlook's functions to produce professional communications. Explains effective communication techniques, working with attachments, formatting a reply, and manipulating calendars, contacts, and tasks. Meets requirements for the Microsoft Office Suite certification exam.

**Required Materials:** Microsoft Office 2019, or an Office 365 subscription

#### **PowerPoint: Office Fundamentals Series**

Provides the tools to create clean and professional presentations while also building skills as a speaker, leader, and marketer. Demonstrates how to create and format presentations while inserting multimedia, images, transitions, and animations. Meets requirements for the Microsoft Office Suite certification exam.

**Required Materials:** Microsoft Office 2019, or an Office 365 subscription

## Principles of Information Technology 1a: Introduction

Explores a range of concepts to gain the foundational knowledge needed to start exploring careers in this field. Defines topics including computer hardware and maintenance, data management and storage options, network systems, administration, and troubleshooting.

**Required Materials:** A database program such as Microsoft Access or Obvibase (Free with sign-up)

## **Principles of Information Technology 1b: Working with Computers**

Starts with an overview of programming, algorithms, and compilers, and then explains the basics of web page design and creating graphics. Explores security and cybercrime, emerging technologies, presentation software, and intellectual property laws.

**Prerequisite:** Principles of Information Technology 1a: Introduction

#### **Programming 2A: Procedural Programming**

Develops knowledge of the most popular programming languages and where they can be used. Explores data, algorithms, and objectives to learn to speak the language of code programming. Dives into the software development life cycle and how it can be used to create projects. Design and develop a prototype app and website.

**Prerequisite:** Introduction to Programming 1b: Problem Solving Through Programming

Required Materials: PythonAnywhere, Trinket, Draw.io, Figma

#### **Programming 2B: Creative Programming**

Use web programming languages to develop new web pages using HTML, CSS and JavaScript. Create and add widgets to websites using API. Develop and enhance Python skills developing photo editors, sound players and web encryption. Create a graphical user interface for an app using Python's Tkinter.

**Prerequisite:** Introduction to Programming 2a

**Required Materials:** Camera, Replit.com, Applnventor, Canva, Visual Crossing

#### Touch Systems Data Entry: Keyboard Like a Pro

Introduces students to typing and why strong typing skills are necessary. Explores the history of early typewriters and the evolution of electric typewriters. Demonstrates proper posture for typing, finger placement, and functions of symbol keys. Examines how to communicate effectively using different types of written documents. Distinguishes between personal and business communications.

**Required Materials:** Video recording device, digital camera, and magazines. Software required: typing.com, typingclub.com, and keybr.com.

#### Web Development 1a: Introduction

Explores professional web development, including how to create content. Teaches about topics such as servers, file organization, HTML, CSS, JavaScript, and the development stack that will provide all of the tools needed to build a web site. Available for grades 10 through 12.

**Prerequisite:** Principles of Information Technology 1b: Working with Computers

**Required Materials:** Formspree.io, Github, Repl.it, USFiddle, Visual Studio Code, Canva Color Wheel, Unsplash, Icons8, Graphics or visual HTML editor, GIMP Version 2.10.14, Leshy SFMaker, Weebly, Image editor, Wordtracker, JSFiddle, W3XML Validator, Grid Framework

#### Web Development 1b: Planning and Designing

Explains files, formats media, maintenance and performance of a web page. Examines web security, regs, and mobile pages to create web pages. Available for grades 10 through 12.

Prerequisite: Web Development 1a: Introduction

**Required Materials:** Formspree.io, Github, Repl.it, USFiddle, Visual Studio Code, Canva Color Wheel, Unsplash, Icons8, Graphics or visual HTML editor, GIMP Version 2.10.14, Leshy SFMaker, Weebly, Image editor, Wordtracker, JSFiddle, W3XML Validator, Grid Framework

#### **Word: Office Fundamentals Series**

Teaches how to use fonts, colors, and editing tools to create letters and reports. Provides the fundamentals of how to format documents, create tables, use bullets and numbering, and insert images.

**Required Materials:** Microsoft Office 2019, or an Office 365 subscription

# **MILITARY SCIENCE**

# **Military Careers: Introduction**

Provides the information needed to gain a broader understanding of how to find the right fit amongst the five military branches—Air Force, Army, Coast Guard, Marine Corps, and Navy—and examine various jobs in each one.

# PHYSICAL, HEALTH, & SAFETY EDUCATION

## **Advanced Athletic Training**

Allows for students that participate in competitive training or sports to earn credit. Requires students to document activities weekly by demonstrating knowledge of fitness concepts for their chosen sport or activity and to meet a minimum of 6 hours per week of organized practice. Permission from advisor must be obtained prior to enrollment.

**Prerequisite:** Students must be participating in a competitive sport on a weekly basis.

#### **Drivers Ed**

Includes videos and tests to provide general driving rules and regulations. Meets some state requirements for earning a learner's permit. Earns potential insurance discounts for completion of driver's education. Please note that students and parents should confirm what, if any, state requirements are met by this course before the student enrolls.

**Required Materials:** Must be at least 15 years old, or turn 15 by the end date of the course.

## **Health 1: Life Management Skills**

Promotes better health by explaining ways to decrease stress and find a fuller vision of life. Explores factors that can influence overall health such as positive interactions with others, quality health care, and sensible dietary choices.

#### Health A

Focuses on the impact of personal decisions on health. Discusses the basic science behind nutrition, exercise, stress, and psychology, and how these factors affect a person's overall health.

#### Health B

Explores some of the more dramatic changes that the human body experiences from birth to death. Topics are related to aging and sexuality and identifying ways to remain healthy and safe throughout life's major events and challenges.

Prerequisite: Health A

#### **Personal Fitness**

Explains the benefits of physical fitness and the general recommendations for kick-starting a healthier lifestyle. Explores the functions that joints and muscles perform, how they work, and their interaction with the central nervous system, and special considerations for safe and effective exercise.

#### **Physical Education A**

Encompasses topics of physical fitness, including FITT principles, weight training, biomechanics, and nutrition. Examines the emotional, physical, and scientific factors that influence physical performance.

#### **Physical Education B**

Explains sports strategies including sportsmanship and individual and team excellence. Includes strategies for making fitness a part of daily life for all levels.

**Prerequisite:** Physical Education A

# PUBLIC, PROTECTIVE, & GOVERNMENT SERVICES

## **Criminology: Inside the Criminal Mind**

Investigates how the psychological, biological, and sociological mental state of a person affects the criminal mind and how the criminal justice system upholds the law.

#### **Cybersecurity 1a: Foundations**

Identifies the various parts of computers, how they work together, and how to manipulate them to keep data safe. Dives into the tools, technologies, and methods that will help protect from an attack.

**Required Materials:** Not compatible with Chromebooks or tablets. Software: Virtual Box: https://www.virtualbox.org/wiki/downloads

## **Cybersecurity 1b: Defense Against Threats**

Describes cybersecurity threats by providing an understanding of hackers and identifying weaknesses in online behavior. Digs into these crimes in depth by taking a look at cyber forensics and other cybersecurity careers.

**Prerequisite:** Cybersecurity 1a: Foundations

**Required Materials:** Not compatible with Chromebooks or tablets. Software: Virtual Box: https://www.virtualbox.org/wiki/downloads

# Law and Order: Introduction to Legal Studies

Delves into the importance of laws and considers how their application affects individuals and communities. Teaches about the court system and how laws are enacted.

# **Legal Admin Specialist 1a: Introduction**

Introduces the American court system and the morals, ethics and rules of practicing law. Explores the specifics of researching, creating, processing, and filing legal documents. Compares the different types of law.

**Prerequisite:** Business Information Management 1b: Data Essentials

**Required Materials:** Video recording device.

# Legal Admin Specialist 1b: Taking Care of the Legal Office

Dives deeper into the operation of a law office. Explores the responsibilities of managing employees, how to conduct an employee performance review, and the communication skills necessary to work with employees and clients. Introduces compliance of federal employment laws. Examines how to manage the docket and calendar system. Reviews legal rules about different areas of law.

Prerequisite: Legal Admin Specialist 1a: Introduction

**Required Materials:** Video recording device.

#### **National Security**

Provides information on critical elements of the job, such as evaluating satellite information, analyzing training procedures, assessing military engagement, preparing intelligence reports, coordinating information with other security agencies, and applying appropriate actions to various threats.

# Principles of Public Service: To Serve and Protect A

Focuses on building a safe and healthy world and explores the business of the government, rules and regulations, and how public servants use leadership skills to take care of others.

# Principles of Public Service: To Serve and Protect B

Looks at the requirements for public service in general as well as the specific skills needed to be successful in each area of public service. Explores careers such as first responders, social workers, and civil engineers. *Prerequisite:* Principles of Public Service: To Serve and Protect A

## **SCIENCE**

#### **Aeronautics and Space Travel**

Introduces students to the history and near future of space travel. Explores the possibilities of moon bases, Mars colonies, and visiting the outer planets in our solar system and their moons. Discusses important ethical and legal issues around space exploration, such as asteroid mining and war in space. Examines the technologies, science, and theories that will make far-fetched dreams into realities during the student's lifetime.

#### **Astronomy 1a: Introduction**

Investigates the origin of the universe, the Milky Way, and other galaxies and stars, including the concepts of modern astronomy and the methods used by astronomers to learn more about the universe.

#### **Astronomy 1b: Exploring the Universe**

Provides an exploration of the solar system including the sun, comets, asteroids, meteors, life cycles of stars, and planets' properties. Analyzes concepts of space travel and settlements, and what it could be like to live and work in space.

**Prerequisite:** Astronomy 1a: Introduction

#### **Great Minds in Science: Ideas for a New Generation**

Takes an in-depth look at the extraordinary work of scientists and demonstrates how their ideas may very well shape the world of tomorrow.

#### Marine Science: Secrets of the Blue A

Uses scientific inquiry to investigate how the earth is impacted by the ocean. Explains the impact of water on weather, climate and ocean habitats.

#### Marine Science: Secrets of the Blue B

Focuses on the impact of populations on the ocean and how marine animals and humans interact with the environment. Explores a variety of career options in Marine Science.

**Prerequisite:** Marine Science: Secrets of the Blue A

#### **Nutrition and Wellness**

Explains the essential skills needed to pursue a healthy, informed lifestyle, and how to locate, buy, and prepare fresh, delicious food.

#### **Space Explorations**

Examines the history and future of space travel and what it will take to reach new frontiers, including Mars and beyond.

#### **Veterinary Science: The Care of Animals**

Examines how different veterinary treatments are used and developed to improve the lives of domestic, farm, and wild animals

## **SOCIAL STUDIES & HISTORY**

#### **AP Psychology A**

Explores the origins of psychology including the biology of the brain. Develops an understanding of the different types of conditioning and how psychology affects our lives. This course content is designed to cover all areas on the AP exam.

**Required Materials:** See course syllabus for required texts

#### **AP Psychology B**

Dives into how psychology can be applied to individuals throughout their lives, including what makes people happy and motivated. Studies the different types of therapies available and explore how psychology can explain social situations such as attraction and conforming.

**Prerequisite:** AP Psychology A

**Required Materials:** See course syllabus for required texts

#### **Archaeology: Detectives of the Past**

Explores the various techniques, methods, and theories of this field and illustrates how archaeologists conduct their studies.

#### Philosophy: The Big Picture

Ponders fundamental questions, such as "Who am I?", "What do I really know about the world?", "How should I behave?". Evaluates these questions and provides skills for analyzing arguments and using imagination and reason to come up with new ideas.

# **VISUAL & PERFORMING ARTS**

#### **3D Modeling 1a: Introduction**

Introduces 3D modeling in the context of various real-world applications. Explores Blender software for 3D modeling. Presents different types of shapes for model creation and provides practice. Culminates in the building and finalization of a 3D model.

**Required Materials:** Video recording device, Blender software version 2.90. Computer requirements: 64-bit eight core CPU, 32 GB RAM, Full HD displays, three button mouse and graphics card with +12 GB RAM. This course is not appropriate for a Chromebook or tablet.

## 3D Modeling 1b: Set the Scene

Explores the digital 3D world that depicts the aesthetics, environment, and conditions of buildings. Brings objects that have been created to life using color, textures, lighting, and shadowing.

**Prerequisite:** 3D Modeling 1a: Introduction

**Required Materials:** Video recording device, Blender software version 2.90. Computer requirements: 64-bit eight core CPU, 32 GB RAM, Full HD displays, three button mouse and graphics card with +12 GB RAM. This course is not appropriate for a Chromebook or tablet.

#### **Adobe Illustrator**

Explores what it is like working in the graphic design industry. Examines everything from absolute basics like navigating Illustrator to performing complex tasks like managing colors, drawing, creating illustrations, and much more. Prepares students for the Adobe Certified Associate certification exam.

**Required Materials:** Adobe Illustrator

#### Adobe InDesign

Introduces students to the world of Adobe InDesign and what it is like working in the print and digital media publishing industry. Explores absolute basics like navigating InDesign to performing complex tasks like creating multi-page documents, applying effects, and even creating original artwork. Prepares students for the Adobe Certified Associate certification exam.

Required Materials: Adobe InDesign

#### **Adobe Photoshop**

Introduces Adobe Photoshop and explains what it is like working in the visual and graphic design industry. Examines absolute basics like navigating Photoshop to performing complex tasks like editing and retouching photos, applying filters and effects, and even creating original artwork. Prepares students for the Adobe Certified Associate certification exam.

**Required Materials:** Adobe Photoshop

# **Advanced Drawing**

Develops a comprehensive understanding of drawing processes while experimenting with different materials and styles. A studio course with hands-on projects requiring problem-solving, creativity, and thinking outside the box. Builds a personal portfolio that shows improvement over the semester and showcases work students are proud of. Individualized lessons enable students to become stronger and more confident artists. Available for grades 11 and 12.

**Prerequisite:** High School Basic Drawing

Required Materials: Color Pencils, Markers, Pastel, Sketchbook, or Drawing Paper.

#### **Animation 1a: Introduction**

Explores design, the principles of animation, creating a storyboard, and leveraging tools of the trade. Introduces careers in this industry such as directors, animators, and 3D modelers.

**Required Materials:** Video/Audio recording device (e.g. phone), TupiTube Version 0.2.1.6 (free)

#### **Animation 1b: Animating Your Creativity**

Uses the software Blender, the gateway to 3D modeling, computer animation, and post-production procedures used in the film industry. Examines 3D modeling and animation of characters. Explores the basics of human anatomy and form to apply rigging, joints, and texture to animation. Covers rendering and lighting effects and how to apply sound.

**Prerequisite:** Animation 1a: Introduction

Required Materials: Video/Audio recording device (e.g. phone), Blender Version 2.90

#### **Art Appreciation**

Examines the elements of art, principles of design, and how artists have used these elements and principles in the creation of art for centuries.

#### Art in World Cultures A

Introduces the visual art and the elements and principles of art. Focuses on prehistoric, ancient, early Roman and Medieval art, and expands upon critiquing and analyzing art.

#### **Art in World Cultures B**

Expands upon further periods of art history including the Renaissance and the Baroque and Romantic periods. Introduces other facets of art including art of the Americas, African art, and art of the Pacific. Describes how different periods of art build on other prior movements.

Prerequisite: Art in World Cultures A

#### **Beginning Piano**

Introduces piano technique and basic music theory. Study parts of the piano and keyboard, while learning how to play music on the piano.

Required Materials: Access to a piano or keyboard

# **Digital Design 1a: Introduction**

Introduces the basic principles of design and the tools needed to succeed in the digital design industry. Learn how to design objects for specific purposes and audiences and how to market yourself and open your own design business all while building a portfolio.

**Prerequisite:** Principles of Information Technology 1b: Working with Computers

**Required Materials:** A carving tool, camera, large potato, ink or paint, printer, vector editing software, website-building and hosting platform, photo editing software, digital design software, and Canva's Color Wheel.

## Digital Design 1b: Express Your Ideas Visually

Builds on the foundational skills necessary to become a successful graphic designer. Explores effective communication and people skills. Explains the design process. Examines how to create images, properly use equipment, and evaluate and market your own designs.

Prerequisite: Digital Design 1a: Introduction

**Required Materials:** Raster-based editing software, vector editing software, website-building and hosting platform, and a digital camera.

## **Digital Photography 1a: Introduction**

Teaches the basics of photography and camera functions, including aperture, shutter speed, natural vs. artificial lighting, and elements of composition. Explores how an image is created and how to edit and manipulate the pictures.

**Required Materials:** Manual camera or digital camera with manual settings (a smartphone may be used for most required tasks; however, appropriate applications will need to be installed to allow the student to make the necessary adjustments to the camera mode, shutter speed, and aperture.), Image editing software such as GIMP

# Digital Photography 1b: Creating Images with Impact!

Develops photography skills by learning more professional tips, tricks, and techniques to elevate images. Explores various photographic styles, themes, genres, and artistic approaches. Discusses a career in photojournalism and how to bring photos to life.

**Prerequisite:** Digital Photography 1a: Introduction

# Digital Photography 2: Discovering Your Creative Potential

Explains how to effectively critique photographs to better understand composition and how to create more eye-catching photographs. Examines various aspects of careers in the photography field.

**Prerequisite:** Digital Photography 1b: Creating Images with Impact!

**Required Materials:** Manual camera or digital camera with manual settings (a smartphone may be used for most required tasks; however, appropriate applications will need to be installed to allow the student to make the necessary adjustments to the camera mode, shutter speed, and aperture.), Image editing software such as GIMP

# **Fashion Design**

Examines the skills needed to get started in the fashion industry. Explains the careers available and the new technology and trends reshaping the industry every day.

**Required Materials:** Sewing machine (can be electronic programmable, straight stitch, zigzag, or old-style machine; should have tension adjustment controls), Thread, Fabric, Pattern, Pattern tools to mark on fabric such as a tailor's chalk or pen with disappearing ink, Needle and thread for hand sewing, Measuring tape or yardstick, Raw materials to either create or modify a garment or accessory, such as fabric, buttons, and other components

#### **Graphic Design**

Introduces elements of design, spatial relationships, typography, and imagery as they apply to practical visual solutions for self-promotion, resumes, logo design, web design, and sequential systems. Teaches both analog and digital media to explore two-dimensional and three-dimensional design along with color theory. Available for grades 11 and 12.

**Required Materials:** GIMP or Pixlr

## **High School Basic Drawing**

Explores the world of drawing with different types of tools and materials to see what each look like. Use objects from daily life to focus drawings and explore the different textures, patterns, and forms that make up the world. **Required Materials:** Specific art supplies, including: 2B drawing pencils, a #10 round hair brush, black India Ink, a Pilot Varsity Pen, a black and white conté crayon, art gum eraser, white wax Crayola crayons, white drawing paper, black and gray construction paper, gray charcoal paper, 10x13 large envelopes, white watercolor paper, 9 1/2 x 12 rice paper, newsprint, and white glue

#### **Interior Design**

Explores color, texture, trends, and styles over time, how homes are built, and "green" options for homes and businesses. Interior designers do it all—from planning the color scheme to choosing furniture and light fixtures—with the end goal of creating a space where people can live or work comfortably, safely, and happily. *Required Materials:* Video/Audio recording device (e.g. phone), Art and craft supplies, measuring tape Software: CAD software (free download), online virtual decoration software

## **Music Appreciation: The Enjoyment of Listening**

Provides a historical perspective on music from the Middle Ages to the 21st century. Teaches the essentials of how to listen and hear, with a knowledgeable ear, the different music that is all around.

#### Theater, Cinema, and Film Production 1a: Introduction

Explores the different genres of film and stage and how to develop a script for both. Dives into how to bring the script to life with acting and directing.

Required Materials: Standard editions of: Singin' in the Rain (1952), Wizard of Oz (1939), and Casablanca (1942)

# Theater, Cinema, and Film Production 1b: Lights, Camera, Action!

Dives deeper into the making of movies and theater performances. Explores multiple facets of the production process from both theater and film. Presents insights from industry leaders along the way, learn to think critically about different aspects to develop your unit-by-unit blog.

**Prerequisite:** Theater, Cinema, and Film Production 1a: Introduction

**Required Materials:** Requires login to Blogger site.

## **WORLD LANGUAGES**

#### **American Sign Language 1a: Introduction**

Introduces vocabulary and simple sentences enabling students to communicate right away. Explores Deaf culture- the beliefs, traditions, history, values, and communities influenced by deafness.

Required Materials: Video/Audio recording device (e.g. phone)

#### American Sign Language 1b: Learn to Sign

Expands on simple vocabulary and introduces grammatical structures. Teaches hundreds of different signs. Explores topics such as Deaf education, Deaf arts and culture, and careers where ASL skills are used.

Prerequisite: American Sign Language 1a: Introduction

Required Materials: Video/Audio recording device (e.g. phone)

#### American Sign Language 2a: Communicating

Moves beyond introductory ASL signs and teaches more compelling signs for communication. Explores how expressions can enhance signs and lend dimension to conversations, while learning vocabulary for directions, descriptions, shopping, making purchases, and dealing with emergencies.

**Prerequisite:** American Sign Language 1b: Learn to Sign **Required Materials:** Video/Audio recording device (e.g. phone)

#### American Sign Language 2b: Advancing Communication Skills

Dives deeper into ASL and Deaf culture. Teaches sequencing, transitions, role-shifts, and future tenses. Explains how to tell a story and ask questions. Focuses on speed, conversations, signing skills, and cultural awareness.

**Prerequisite:** American Sign Language 2a: Communicating

**Required Materials:** Video/Audio recording device (e.g. phone), Screen-capture software or camera with the ability to record a conversation, simple video editing software

#### American Sign Language 3a: Community and Culture

Teaches unique grammar and advanced classifiers and locatives. Explains how to interpret and sign opinions, slang, and idioms. Explores how travel, cultural differences, and geography affect sign language. Reviews important Deaf culture events and examines topics such as education, science, and literature. Available to grades 11 and 12.

Prerequisite: American Sign Language 2b: Advancing Communication Skills

## American Sign Language 3b: Conversations and Culture

Examines Deaf culture and experiences through advanced signing skills by developing verb tenses, grammar, and syntax. Applies language skills in real conversation activities and through opportunities to debate real issues. Explores the next steps in education and career opportunities in ASL. Available to grades 11 and 12.

**Prerequisite:** American Sign Language 3a: Community and Culture

#### French 1 A

Develops listening skills by repeated exposure to the spoken language. Explores how languages connect people and how the language we use changes with the situation. Introduces common communications, vocabulary and grammar via conversations related to introductions and speaking about family and daily activities.

#### French 1B

Develops language skills through the opportunity for repeated exposure to French linguistic structures. Enhances speaking and listening skills through recommended voice tools. Develops reading and writing skills through basic texts and meaningful activities. Presents language structures through real-life contexts.

Prerequisite: French 1 A

#### French 2 A

Explores vocabulary and grammar structures and expands towards an intermediate comprehension level. Develops reading and writing skills through reading culturally related articles and writing responses in the target language.

Prerequisite: French 1 B

#### French 2 B

Enhances speaking and listening skills through recommended real-life voice activities. Examines vocabulary to talk about travel, daily routines, and the geography of France. Introduces the use of reflexive verbs and pronouns. Reviews French history.

**Prerequisite:** French 2 A

#### French 3 A

Builds on the students' language acquisition and provides students with the necessary skills and intercultural understanding to enable them to communicate successfully in an environment where French is spoken. Expands on their listening, speaking, reading, and writing skills as they access various materials. Reviews main idea and details in text, dialogues, and vidoes with cultural context.

Prerequisite: French 2 B

**Required Materials:** Video/audio recording device (e.g. phone)

#### French 3 B

Expands on their listening, speaking, reading, and writing skills as they access various materials. Extends their knowledge and understanding of the target language and culture(s) by understanding the interrelationship of other cultures to their own, and identies behaviors appropriate in target cultures.

**Prerequisite:** French 3 A

**Required Materials:** Video/audio recording device (e.g. phone)

#### Spanish 1 A

Introduces the Spanish language and culture through the fundamentals of written and verbal communication. Focuses on the basics of greetings and conversations. Incorporates numbers, sports, daily school life and telling time, leisure activities and preferences, and describing yourself and others.

## Spanish 1 B

Expands foundational Spanish to asking questions and conversational Spanish by focusing on real-life scenarios. Covers family, clothing, restaurant, around the house, getting around town, the near future, and asking questions.

**Prerequisite:** Spanish 1 A

#### Spanish 2 A

Builds on the skills developed in Spanish 1 to strengthen vocabulary, introduces new verb tenses and other grammar concepts, and increases the ability to communicate with others. Covers comprehension, the present progressive, and object pronouns.

**Prerequisite:** Spanish 1 B

## Spanish 2 B

Introduces countries where Spanish is spoken. Continues to strengthen vocabulary, introduces new verb tenses and other grammar concepts, and increases the ability to communicate with others. Covers indirect object pronouns, the preterite tense, and the imperfect tense.

**Prerequisite:** Spanish 2 A

#### Spanish 3 A

Reviews Spanish and its structure. Continues to strengthen vocabulary, introduces new verb tenses and other grammar concepts, and increases the ability to communicate with others. Covers effective communication by recognizing correct verb endings, understanding geography, applying correct pronoun, and understanding the present, future, and conditional tenses.

**Prerequisite:** Spanish 2 B

#### Spanish 3 B

Focuses on applying vocabulary in a wider range of situations by learning about the past progressive and subjunctive moods and the present perfect, future, and conditional tenses.

Prerequisite: Spanish 3 A

#### AP® Spanish A

Emphasizes communication by applying interpretive, interpersonal, and presentational skills in real-life situations. Includes vocabulary usage, language control, communication strategies and cultural awareness. This course is college level and taught almost exclusively in Spanish.

Prerequisite: Spanish 3 B

**Required Materials:** Please check your current course syllabus for full required materials.

#### AP® Spanish B

Engages students in an exploration of culture in both contemporary and historical contexts. Develops students' awareness and appreciation of culture products, practices, and perspectives.

Prerequisite: AP® Spanish A

**Required Materials:** Please check your current course syllabus for full required materials.

