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### Dual Credit
- 100

Courses are subject to availability.
## Core Courses:

### Kindergarten
- Language Arts
- Math
- Science
- Social Studies

### First Grade
- Language Arts
- Math
- Science
- Social Studies

### Second Grade
- Language Arts
- Math
- Science
- Social Studies

### Third Grade
- Language Arts
- Math
- Science
- Social Studies

### Fourth Grade
- Language Arts
- Math
- Science
- Social Studies

### Fifth Grade
- Language Arts
- Math
- Science
- Social Studies

## Elective Courses:

### Kindergarten
- Art
- Arts & Crafts
- Health
- Physical Education
- Recorders
- Scratch Coding

### First Grade
- Art
- Arts & Crafts
- Health
- Physical Education
- Recorders
- Scratch Coding

### Second Grade
- Art
- Arts & Crafts
- Health
- Physical Education
- Recorders
- Scratch Coding

### Third Grade
- Art
- Health
- Keyboarding
- Physical Education
- Recorders
- Scratch Coding

### Fourth Grade
- Art
- Health
- Keyboarding
- Physical Education
- Scratch Coding

### Fifth Grade
- Art
- Health
- Keyboarding
- Physical Education
- Scratch Coding
Core Courses:

**English Language Arts**
- Language Arts 6
- Language Arts 7
- Language Arts 8

**Math**
- Math 6
- Math 7
- Pre-Algebra

**Science**
- Life Science 6
- Earth & Space Science 7
- Physical Science 8

**Social Studies**
- Social Studies 6
- Social Studies 7
- Social Studies 8

Elective Courses:

**Arts**
- 2D Studio Art
- Art Explorations
- Basic Drawing
- Beginning Painting
- Digital Art and Design
- Digital Photography
- Exploring Music
- Photography: Drawing with Light

**English Language Arts**
- Journalism: Tell Your Story

**P.E. & Health**
- Fitness
- Health
- Individual and Team Sports
- Physical Education

**Computers, Programming & Design**
- Coding
- Computer Basics
- JavaScript Game Design
- Keyboarding
- Python Multi-Adventure

**Self Improvement**
- Career Exploration I
- Career Exploration II
- Study Skills and Strategies

Additional Courses:

**Intervention Support**
- Ready Reading
- Ready Math
## HIGH SCHOOL

### English Language Arts
- Language Arts 9*†
- Language Arts 10*†
- Language Arts 11*†
- Language Arts 12*†

### Math
- Algebra I*†
- Algebra II*†
- Consumer Math
- Geometry*†
- Pre-Calculus

### P.E. & Health
- Flexibility Training
- Health†
- Personal Fitness
- Physical Education
- Running
- Strength Training
- Walking Fitness

### Science
- Anatomy and Physiology
- Astronomy
- Biology*†
- Chemistry*†
- Earth Science†
- Paleontology
- Physics*†

### Social Studies
- American Government*†
- American History*†
- Civics†
- Economics*†
- History of the Holocaust
- World History*†

### World Languages
- American Sign Language I
- American Sign Language II
- Chinese I
- Chinese II
- French I
- French II
- French III
- German I
- German II
- Latin I
- Latin II
- Spanish I
- Spanish II
- Spanish III

*Has an Honors option
†Has a Credit Recovery (CR) option. 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 Courses:

**English Language Arts**
Language Arts 9
Language Arts 10
Language Arts 11
Language Arts 12

**Math**
Algebra I
Algebra II
Geometry

**Science**
Biology
Chemistry
Physics

**Social Studies**
American Government
American History
Economics
World History

Advanced Placement® Courses:

**English Language Arts**
Advanced Placement® English Language & Composition
Advanced Placement® English Literature & Composition

**Math**
Advanced Placement® Calculus AB
Advanced Placement® Calculus BC

**Science**
Advanced Placement® Biology
Advanced Placement® Chemistry
Advanced Placement® Physics

**Social Studies**
Advanced Placement® European History
Advanced Placement® Government & Politics
Advanced Placement® US History
Advanced Placement® World History

**World Languages**
Advanced Placement® French Language & Culture
Advanced Placement® Spanish Language
ELECTIVES COURSE LIST

HIGH SCHOOL

Agriculture, Food & Natural Resources
Agriscience I: Introduction
Agriscience II: Sustaining Human Life
Forestry and Natural Resources
Introduction to Renewable Technologies
Principles of Agriculture, Food and Natural Resources
Renewable Energy

Arts
Animation
Art Appreciation
Art in World Cultures
Arts Careers
Culinary Arts I
Culinary Arts II: Baking, Pastry, and More!
Digital Media
Digital Photography I
Digital Photography II: Discovering Your Creative Potential
Fashion and Interior Design
Film and Television
Music Appreciation: The Enjoyment of Listening
Theater, Cinema and Film Production

Business, Marketing & Hospitality
Accounting
Advertising and Sales Promotion
Business Information Management
Business Law
Entrepreneurship: Starting Your Business
Hospitality and Tourism I: Traveling the Globe
Hospitality and Tourism II: Hotel and Restaurant Management
International Business: Global Commerce in the 21st Century
Introduction to Business
Manufacturing: Product Design and Innovation
Marketing Foundations
Principles of Business, Marketing, Finance
Restaurant Management
Sports and Entertainment Marketing

Communication
Journalism
Media and Communications
Photojournalism
Public Speaking
Social Media: Our Connected World

Computers & Information Technology
Cybersecurity
Excel: Office Fundamentals Series
Outlook: Office Fundamentals Series
Principles of Information Technology
PowerPoint: Office Fundamentals Series
Word: Office Fundamentals Series
**Criminal Justice & Public Safety**
- Careers in Criminal Justice
- Criminology: Inside the Criminal Mind
- Forensic Science I: Secrets of the Dead
- Forensic Science II: More Secrets of the Dead
- Forensics: The Science of Crime
- Law and Order: Introduction to Legal Studies
- National Security

**General Electives**
- Advanced Work Experience
- Work Experience

**Health**
- First Aid and Safety
- Health Careers
- Health Science I: The Whole Individual
- Health Science II: Patient Care and Medical Services
- Health Science Foundations
- Health Science: Nursing
- Health Science: Public Health
- Introduction to Nursing
- Medical Terminology
- Nutrition and Wellness

**Human Services & Education**
- Cosmetology I: Cutting Edge Styles
- Cosmetology II: The Business of Skin and Nail Care
- Cosmetology III: Introduction to Hair Skills
- Early Childhood Education
- Human and Social Services I
- Principles of Public Service: To Serve and Protect
- Real World Parenting

**Programming, Design & Software Engineering**
- 3D Modeling
- Basic Web Design
- Coding
- Foundations of Game Design
- Game Design
- Graphic Design
- Introduction to Java Programming
- JavaScript

**Science & Technology**
- Biotechnology
- Concepts of Engineering and Technology
- Great Minds in Science: Ideas for a New Generation
- Marine Science
- Space Exploration
- Veterinary Science: The Care of Animals
- World of STEAM

**Self Improvement**
- Career Planning
- Character Education
- Dave Ramsey's Foundations in Entrepreneurship®
- Dave Ramsey's Foundations in Personal Finance®
- Driver's Ed.
- Learning in a Digital World
- Life Skills: Navigating Adulthood
- Military Careers
- Personal and Family Finance
- SAT Prep
- Survey of SAT Prep
- Study Skills and Strategies
**Social Sciences & Humanities**
- African American History
- Anthropology I: Uncovering Human Mysteries
- Anthropology II: More Human Mysteries Uncovered
- Archaeology: Detectives of the Past
- Human Geography: Our Global Identity
- Peer Counseling
- Personal Psychology I: The Road to Self-Discovery
- Personal Psychology II: Living in a Complex World
- Philosophy: The Big Picture
- Social Problems I: A World in Crisis
- Social Problems II: Crisis, Conflicts and Challenges
- Sociology I: The Study of Human Relationships
- Sociology II: Your Social Life
- Women’s Studies: A Personal Journey Through Film
- World Religions: Exploring Diversity

**Writing & Literature**
- Contemporary Novels
- Creative Writing: Unleashing the Core of Your Imagination
- 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
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.
Students can earn credit toward a high school diploma and a college degree with Grand Canyon University (GCU) dual credit courses offered through Freedom Learning. Dual credit is available to students in grades 10-12. Courses transfer to GCU and other universities. Students who attend GCU will be eligible for scholarships. Courses are concentrated into 7 weeks with multiple starts dates during the school year. Students are expected to work 10-15 hours per week during the 7 weeks. Contact an Astravo Online Academy advisor for details.
Astravo’s interactive K-5 curriculum is rooted in national standards and prepares students to build their foundational skills in language arts, mathematics, science, and social studies to set them up for academic success in elementary school and beyond. Astravo’s comprehensive curriculum offers opportunities for students to develop their reading, writing, and critical thinking skills across all content areas.

Through Astravo’s K-5 program in language arts, students build from phonics and sight words to comprehending and analyzing complex literary and informational texts. In mathematics, students learn to count in Kindergarten and progress to multiplying and dividing multiple-digit numbers by fifth grade. Astravo’s K-5 science curriculum exposes students in the earliest years to noticing the natural world around them and launches them into understanding how the world is interconnected by the time that they graduate from elementary school. The social studies curriculum encourages students to reflect on their role in society and the ways in which major historical events shape their state and the United States. Additionally, students can select from a number of engaging electives to provide a holistic educational experience.

**Kindergarten**
The language arts course will teach students to identify and write all letters, produce letter sounds and also frequently used phonograms. Students will also master weekly sight words and reading and comprehension strategies to grow as readers. Students will learn foundational math facts such as counting to 20, how to compare sizes, ordinal numbers, putting items in order, what a number line is and its uses, basic measurements such as inches and feet, and how to tell time on digital and analog clocks. Students will explore concepts of basic geometric shapes such as cones and spheres. In science, students will use their senses to explore their world. Students experience nature walks, gardening, and imitative games by exploring varying concepts. Social studies introduces students to their place in the community and the responsibilities of being a member of society. Students will learn about everyday heroes, the responsibilities of pet ownership, the importance of rules, table manners, and eating well.

**First Grade**
In first grade, language arts students will identify and write all letters, produce letter sounds and will also master weekly sight words and reading and comprehension strategies to grow as readers. In math, students will build fluency with basic math facts. They will learn to count to 100, basic addition and subtraction facts, and how to add double-digit numbers. Students will be introduced to such new concepts as word problems, Venn diagrams, and basic geometric concepts as well as vertical addition and subtraction. There is an emphasis on learning practical skills such as reading thermometers, looking at maps, and understanding the value of coins. In Science, students will complete projects that are designed to allow for exploration and discovery. Students will begin to explore basic fundamentals of social studies including map skills, cardinal directions, and will begin to examine maps of the U.S. and the globe. Students will also be introduced to important figures from American history such as Pocahontas, George Washington, Abraham Lincoln, and Clara Barton.
Second Grade

Students will continue to grow as fluent readers while practicing spelling, vocabulary and grammar concepts through thematic units. Students will increase their sight words and reading and comprehension strategies to grow as readers. In math, students will build fluency with basic math facts and add and subtract within 100 to solve word problems using strategic methods. Students will also manipulate numbers to 1000 using knowledge of hundreds, tens, and ones as well as learning measurement, graphs and money skills. Science introduces students to the process of observation and how important it is to the study of science. Learners will identify their five senses and why they are critical to observation. Using these skills, students will examine many different types of animals and their environments. In social studies, students will explore the Ancient Cultures of China, Africa, and the Celts and examine economics and the role that money plays in every civilization.

Third Grade

Third grade language arts will teach students reading comprehension skills and strategies to help them become stronger readers. Using their knowledge from spelling lessons, vocabulary words and grammar concepts students will improve writing skills in a variety of topics. In math, students will master addition and subtraction facts as well as multiplication and division facts. Students will understand relationships between addition and subtraction, multiplication and addition and multiplication and division as they learn to borrow, carry, and regroup in order to find sums and differences of two whole numbers up to 10,000. Science introduces students to experimentation as they journey through the earth. They will begin by learning about the earth, the sun and the moon. By completing simple experiments students will observe and draw conclusions about the water cycle, gravity, the weather and it’s patterns, various types of terrain, and the role of plants in the production of oxygen and their importance to human survival. Social studies will begin to explore geography, civics, and economics by exploring the Native American tribes of the Cherokee, Sioux, and Hopi. Students will also begin to study the first explorers of the Americas and learn about the beginning of the United States.

Fourth Grade

The fourth grade language arts curriculum integrates reading, writing, speaking, listening, and the study of vocabulary and grammar. Students study classic literature as well as more contemporary forms, including media and multimedia products. Writing assignments focus on narrative, expository and persuasive modes and emphasize the use of reasoning and details to support opinions. In math, students develop an understanding and fluency with multi-digit multiplication and dividing to find quotients involving multi-digit dividends. Students also learn about fraction equivalence, addition and subtraction of fractions, comparing decimals and geometry concepts. Science includes the three main domains of science which are physical, life, and earth and space science. Learners use various kinds of experimenting, including field studies, systematic observations, models, and controlled experiences. Students go beyond planet Earth as they study galaxies, the solar system and other planets. Students examine 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. In social studies students explore their local state, community and animals. Students gain an understanding of local Native American ground in their part of the country. Projects are based on local geography, state capitals, and nearby natural wonders and landforms.
Fifth Grade
Students study classic literature as well as more contemporary forms, including media and multimedia products. Writing assignments focus on expository, narrative and persuasive modes and emphasize the use of reasoning and details to support opinions. Each writing assignment spans several lessons and guides students through a writing process that begins with prewriting and ends by emphasizing one or more aspects of conventions of standard written English. Students also learn how to participate in collaborative discussion and peer review sessions. Math focuses on several critical areas including but not limited to developing fluency with addition, subtraction, multiplication, and division of fractions. Students also learn to extend division to 2-digit divisors, integrate decimal fractions into the place value system, and increase an understanding of operations with decimals to hundredths. In science students begin the course by focusing on earth and space science by looking at the solar system and planets. The course continues with a focus on physical science and with a look into life science and the ways that organisms are interconnected. Students learn that ecosystems change and how the changes affect their ability to support their populations. The course concludes with a look into the scientific process and the importance of investigations and conclusions in the study of science. Using engaging projects, social studies combines the study of United States history through the Civil War with a geographical exploration of the United States.
Art
Available for Grades K-5
Utilizing a wide variety of different art mediums, students explore their artistic side in this course. Projects include household materials as well as standard art supplies including paint, crayons, clay and pencils.

Arts and Crafts
Kindergarten
Students are introduced to lines, circles, recognizing and using shapes, creating a collage and concepts such as symmetry. Young artists will also explore a variety of media such as pastels, watercolors, crayons, tempera, and pencil drawing.
First Grade
This course provides a foundation for the student’s artistic imagination and creativity by sharing the basics of art and making art. Students are introduced to primary colors, the color wheel, shapes such as lines and circles, and concepts such as symmetry. Students will also explore a variety of media such as pastels, watercolors, crayons, tempera, and pencil drawing.
Second Grade
This course will provide students with opportunities to experience many different forms of art and to express their imagination while learning valuable skills. Learners will create a color wheel and understand the difference between primary, secondary, and complementary colors. Learners will use clay and watercolors to create projects and begin to understand symmetry in art.

Health
Grades K-1
Topics of study include personal safety, healthy behaviors, nutrition, communication, disease prevention, basic anatomy and physiology, and values of cooperation and teamwork.
Grades 2-3
Topics of study include personal safety, healthy behaviors, nutrition, disease prevention, conflict resolution, basic anatomy and physiology, and the values of respect and cooperation.
Grades 4-5
Topics of study include personal safety, reducing illness, avoiding bullying, nutrition, healthy friendships, emergency situations, and the human body. Fourth grade will study the functioning systems of the body. Fifth grade will be covering the reproductive system, puberty and STDs.

Keyboarding
Available for Grades 3-8
The curriculum introduces new keys by rows where students first learn the middle row, then the top row and the bottom row of the keyboard. The content is designed with a strong focus on sight and high frequency words. This course assumes no keyboarding experience and will guide them through the keyboard.
**Physical Education**

**Grades K-1**
Topics of study include exercise safety, making healthy choices, nutrition and its benefits, components and principles of fitness, basic anatomy and physiology, and values of cooperation and teamwork. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

**Grades 2-3**
Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

**Grades 4-5**
Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

**Recorders**

Available for Grades K-3
This course combines music and performing arts. Students experience and learn new songs and perform them using their bodies. In addition, the student begins learning how to play the recorder.

**Scratch Coding**

Available for Grades K-5
This program will introduce students to real coding programs and allow them to drag and drop coding blocks to create a fully functional program. This course assumes no prior computer coding knowledge.
COURSE DESCRIPTIONS
MIDDLE SCHOOL
Language Arts 6
This course equips students with the essential language arts skills needed throughout their academic careers. Students read and analyze a variety of informational and fictional texts. Instruction and reading strategies accompany reading selections to help engage students in the text and sharpen their comprehension. Students express their ideas and knowledge using standard (formal) English in written and oral assignments. Writing expressive, analytical, and procedural compositions helps students develop communication skills necessary in today’s world. Students study grammar, usage, and mechanics, and practice sentence analysis, sentence structure, and proper punctuation.
Course Length: Full Year

Language Arts 7
This course continues the development of comprehension and analysis of informational and fictional texts with an ongoing emphasis on reading strategies. Students express themselves using standard (formal) English in written and oral presentations. Analyzing and practicing the form and structure of various genres of writing enhances students’ communication skills. Students study a variety of media to understand informational and persuasive techniques, explicit and implied messages, and how visual and auditory cues affect messages. Grammar, usage, and mechanics skills are deepened. Students continue to widen their vocabulary and apply acquisition strategies.
Course Length: Full Year

Language Arts 8
Throughout this course, students engage in literary analysis and close reading of short stories, poetry, drama, novels, and informational texts. The course focuses on interpretation of literary works, analysis of informational texts, and the development of oral and written communication skills in standard (formal) English. Students read “between the lines” to interpret literature and go beyond the text to discover how the culture in which a work of literature was created contributes to the theme and ideas it conveys. Analysis of the structure and elements of informational texts and media helps students develop the skills needed for academic success and the navigating the world. Students continue to acquire knowledge and skills in grammar, usage, mechanics, and vocabulary.
Course Length: Full Year
Math 6
In this Grade 6 mathematics course, students deepen their understanding of multiplication and division of fractions to apply their knowledge to divide fractions by fractions, with an additional focus on increasing efficiency and fluency. Students gain a foundation in the concepts of ratio and rate as an extension of their work with whole number multiplication and division, and in preparation for work with proportional relationships in Grade 7. Students also make connections among area, volume, and surface area, and continue to lay the groundwork for deep algebraic understanding by interpreting and using expressions and equations.
Course Length: Full Year

Math 7
In this Grade 7 mathematics course, students focus on real-world scenarios and mathematical problems involving algebraic expressions and linear equations, and begin to apply their understanding of rational numbers with increased complexity. The course lays the foundation for exploring concepts of angle, similarity, and congruence, more formally addressed in Grade 8, as students work with scale drawings and construct and analyze relationships among geometric figures. Students also develop and apply understandings of proportional relationships.
Course Length: Full Year

Pre-Algebra
In this course, students take a broader look at computational and problem-solving skills while learning the language of algebra. Students translate word phrases and sentences into mathematical expressions; analyze geometric figures; solve problems involving percentages, ratios, and proportions; graph different kinds of equations and inequalities; calculate statistical measures and probabilities; apply the Pythagorean theorem; and explain strategies for solving real-world problems. Lessons provide demonstrations of key concepts as well as interactive problems with contextual feedback.
Course Length: Full Year
Prerequisites: Math 7
Life Science 6
The Life Science curriculum invites students to investigate the world of living things—at levels both large and small—by reading, observing, and experimenting with aspects of life on Earth. Students explore our planet’s numerous—and wondrous—organisms, the complex workings of the cell, the relationship between living things and their environments, and discoveries in the world of modern genetics. Practical lesson activities help students discover how scientists investigate the living world. Students perform laboratory activities and a full-unit investigation to learn about the application of scientific methods.
Course Length: Full Year

Earth & Space Science 7
Students will learn about the scientific method and hone their understanding of using scientific measurements to Earth and Space Science. By connecting them to the beauty of geological history, the diverse landforms around the globe, the nature of the sea and air, and the newest discoveries about our universe, this course gives students an opportunity to relate to their everyday world. Students will explore topics such as the fundamentals of geology, oceanography, meteorology, and astronomy; Earth’s minerals and rocks; Earth’s interior; plate tectonics, earthquakes, volcanoes, and the movements of continents; geology and the fossil record; the oceans and the atmosphere; and the solar system and the universe.
Course Length: Full Year

Physical Science 8
The Physical science curriculum introduces students to many aspects of the physical world, focusing first on chemistry and then on physics. The course provides an overview of the physical world and gives students tools and concepts to think clearly about atoms, molecules, chemical reactions, motion, electricity, light, and other aspects of chemistry and physics. Among other subjects, students study the structure of atoms; the elements and the periodic table; chemical reactions; forces, including gravitational, motion, acceleration, and mass; and energy, including light, thermal, electricity, and magnetism.
Course Length: Full Year
**Social Studies 6**
Social Studies 6 introduces students to the beginnings of ancient civilizations. Students will trace the path of human origins in Africa and follow the path of migration around the Earth. This course will help students understand why we study history and the process in which we form conclusions about events in the past. Students will begin to learn about the major ancient civilizations around the world and their cultures. Students will continue to trace the path of human civilization from the Mediterranean through the Eastern world. An emphasis will be placed on critical thinking and connecting themes in history to our modern world.

**Course Length:** Full Year

**Social Studies 7**
This study of the history of the United States emphasizes how ideas, events, and philosophies have shaped the nation. Students will learn about America’s past while mastering the skills of historical interpretation. Study begins with the earliest arrivals of people with an emphasis on how historical ideas, events, and philosophies have shaped the United States. Content includes the Civil War, Reconstruction and guides students through U.S. history to the present.

**Course Length:** Full Year

**Social Studies 8**
In this course students will understand the significance of government, law, and politics. They will examine the United States foundational documents and how they shaped the Unites States government. Students will examine the purposes and functions of federal and state government, law, and political systems. Learners will evaluate their role and civic responsibility to their families, communities, and country including voting and being a productive member of society. By the end of the course students will have a deeper understanding of their civic responsibilities as well as the difference one individual can make in society.

**Course Length:** Full Year
**2D Studio Art**
Learn how to bring your art visions to life. Whatever medium you prefer—painting, drawing, photography—this course will teach you the design elements and principles needed to create a work of art, explore your artistic inspirations, travel back in time to look at art in different cultures, and gain insight about the art of critiquing.

**Course Length:** Semester

**Required Materials:**
- Various sizes of white drawing paper
- Various sizes of colored paper
- Paintbrushes in varying sizes
- Empty cans or jars to wash paintbrushes
- Ruler and/or protractor
- Erasers
- Scissors
- Miscellaneous household objects to use for still life art
- Digital camera, camera phone, or other type of camera
- Paint (at least two or more of the following):
  - Tempera Paint
  - Acrylic Paint
  - Watercolor
  - Ink Wash
  - Oil Paint
- Drawing Tools (at least two or more of the following):
  - Pastels
  - Charcoal
  - Markers
  - Colored Pencil
  - Crayons

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**Art Explorations**
Introducing students to diverse areas in the arts can broaden their perspective on the arts in general. Arts Explorations encourages students to experience each of the modern arts disciplines including Visual Arts, Theatre, Music, Media Arts and Dance. Students will also be able to identify areas of special interest where they would like continued study and the ways that the arts can be a part of their career paths.

**Course Length:** Semester

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**Basic Drawing**
Students will experiment with several different art materials and tools and explore ordinary things around them to become more observant of the structures and meanings of things which can be seen in the student’s home and community.

**Course Length:** Semester

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**Beginning Painting**
This course introduces students to classical and contemporary painting, techniques and concepts, with emphasis on the understanding of its formal language and the fundamentals of artistic expression. Painting from still life, landscape, and life models from observation will be geared towards realism; at the same time, various other painting styles could be explored. Color theory, linear perspective, compositional structure, figure/ground relationships, visual perception, spatial concepts, and critical thinking skills will all be emphasized. Students will study and research major painting styles and movements in historical context.

**Course Length:** Semester
Digital Art and Design
In this course, you’ll learn about the evolution of art, the basic principles of art and design, and the role of art in politics and society. Students will create your own digital art and make it come alive.
Course Length: Semester
Required Materials:
Unit 2
• Digital camera or cell phone with a camera feature (requires uploading digital photographs taken by student)
Unit 3
• Drawing paper and colored pencils or markers or drawing software (requires creating a logo)

Digital Photography
Understanding the tools available opens the possibilities to create images with impact. In Digital Photography, students will study the history of photography as well as the basic operation of a digital camera. As they are introduced to different styles of photography and photographers, students will begin to develop artistic skills as well as their own voice through their photographs.
Course Length: Semester

Exploring Music
Explore important elements of music like rhythm, pitch, and harmony, as well as different musical genres. Discover more about your singing voice, musical instruments and composition while taking in the history and culture of music over the years.
Course Length: Semester
Required Materials:
• Video recording device
• Audio recording device

Photography: Drawing with Light
Learn how to take excellent, jaw-dropping photographs that you see in magazines and on your favorite social media sites. You’ll learn the basics of using a camera and how to avoid common photography mistakes.
Course Length: Semester
Required Materials:
• Digital camera: “point and shoot” or above. 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.
• Paper and Pen/Pencil for note taking
• Camera cord to transfer images to the computer
• Image Editing Software
• Lighting tools for side, front, and back lighting
Journalism: Tell Your Story
Learn how ask the right questions, look for the details, and find the story in any situation. You’ll learn how to gather information effectively, organize ideas, format stories for media production, and edit your articles.

Course Length: Semester
Fitness
Discover the basics of being physically fit and understand your body’s functions. Learn about the complex science behind exercise and determine how you can test your current level of fitness.

Course Length: Semester

Required Materials:
- Video recording device – either camera phone, iPad, computer camera – as long as video and sound can be recorded
- Paper and pencils if student chooses to hand draw certain labs rather than using slide-show presentation
- Free weights or a free-weight substitute like canned soup or milk jugs
- A ball for throwing
- A Frisbee
- Hockey stick, golf club, or baseball bat and matching ball
- Timer
- Distance tracker or distance tracking app
- Tennis racket, badminton racket, or ping-pong paddle
- Jump rope
- Volleyball or football
- A friend of family member to act as a partner

Health
This course will help the student understand the importance of making decisions that will affect his or her physical, emotional, mental and social health. This course will provide students with the knowledge and resources they will need to make responsible informed decisions about their health. Students will have an opportunity to evaluate their own values, opinions and attitudes about health.

Course Length: Semester

Individual and Team Sports
To improve and maintain optimum health, it is necessary for people of all ages to participate in physical exercise. There is little doubt that, in addition to students in schools, the number of adults participating in sports and recreational activities in the United States has increased in recent years. Emphasis in this course is placed on the value of these sports as possible lifetime activities and on creating a clear explanation of the rules and basic principles of a variety of sports. The sports covered in this course are archery, bicycling, golf, skiing, tennis, volleyball, baseball, basketball, football, hockey, and soccer. Information about the playing area and equipment, basic rules, safety considerations, and terminology for each sport are included in the discussions. For the most part, the information presented in each lesson applies to sports programs throughout most sections of the United States.

Course Length: Semester

Physical Education
This course covers physical fitness, why it is important, how to have a healthy attitude. Semester A focuses on fitness and health concepts, FITT principles, biomechanics, health and fitness plans, weight training and nutrition. Semester B emphasizes sportmanship & safety, sports strategies, skill-related fitness, movement skills, individual & team excellence, and rhythmic movement.

Course Length: Semester
Coding

Semester 1: Introduction
Get an introduction to the basics of computer science and discover how to create and build your very own website using HTML and CSS. You’ll also become familiar with programming languages like JavaScript and Python Programming. You will leave the course with your very own portfolio of work that will showcase your skills and all that you’ve created.

Required Materials:
- Laptop
- Internet

Websites Used:
Unit 1
- Logo Interpreter (Login Optional; Free)

Unit 2
- Typing Practice for Programmers (Sign in with Google or Demo; Free)
- Obvibase (Sign in with Google, Facebook, or email; Free)
- Newsela (Required for a lab question; Free)

Semester 2: Learning Python and Javascript
Building on what you learned in Semester 1, you’ll expand your knowledge of programming languages and web development and further explore Advanced Python, HTML, and JavaScript. You will also learn the difference between web development and web application development and continue to grow your portfolio.

Required Materials:
- Repl.it (Browser-based software that may need a login)

Course Length: Full Year

Computer Basics
In this course you will learn how to use productivity and collaboration tools such as G Suite by Google Cloud to create word processing documents, spreadsheets, surveys and forms such as personal budgets and invitations.

Course Length: Semester
JavaScript Game Design

Semester 1: Introduction
Learn how to build a game from the ground up in an interactive and hands-on course that will teach you all the ins and outs of making your own game. Learn the importance of game structure and discover what makes a game fun, challenging, and interesting to players. Students will learn block-based programs and experiment with character and story development.

Required Materials:

Scratch 3.0 Preview
- We are accessing Scratch 3.0 Preview Version in this course. Here are the minimum requirements from the Scratch 3.0 FAQ page (https://scratch.mit.edu/preview-faq):
- Scratch 3.0 is built on industry-standard HTML5 technology and is no longer dependent on Flash. Because of this, it runs in any modern web browser.

Frequently Asked Questions:
Will Scratch 3.0 work on tablets and phones?
- Scratch 3.0 will work on desktop, laptop, and tablet devices (iOS 11+ and Android 6+). On tablets, there won’t be a way to use “key pressed” blocks or right-click context menus until next year.
- You will be able to view projects on mobile phones, but you won’t be able to create or edit projects on phones.

Will Internet Explorer be supported?
- No. We encourage Scratch 2.0 users using Internet Explorer to upgrade their browsers in advance of the Scratch 3.0 official launch.

Desktop
- Chrome (63+)
- Edge (15+)
- Firefox (57+)
- Safari (11+)
- Internet Explorer will NOT be supported.

Tablet
- Mobile Chrome (62+)
- Mobile Safari (11+)

What is WebGL and why do I need it to run Scratch 3.0?
- WebGL is a browser technology that is used by Scratch 3.0 to render projects to the stage. While WebGL is supported in all modern browsers, some older computers and operating systems can not support it. For users that can not run WebGL we recommend using the Scratch 2.0 Offline Editor.

Semester 2: Creating a Game
Students will create details and add component pieces in a game while learning to prototype, troubleshoot, and test. Learn how to critique a game and advertise it. Students will be able to build a game from beginning to end.

Required Materials:
- Art supplies: paper, markers, scissors, glue, popsicle sticks
- Video recording device

Course Length: Full Year
Keyboarding
The keyboarding course is appropriate for elementary and middle school students. The curriculum introduces new keys by rows where students first learn the middle row, then the top row and the bottom row of the keyboard. The content is designed with a strong focus on sight and high frequency words. This course assumes no keyboarding experience and will guide them through the keyboard.

Course Length: Semester

Python Multi-Adventure
Students will learn Python by first completing a text based console game and then turning it into a multiplayer adventure. Learn to code in your own python web server and about client server relationships. Students will gain experience using variables, classes, functions, lists, dictionaries, generators and proper Python formatting. This course assumes no coding experience.

Course Length: Semester
SELF IMPROVEMENT

MIDDLE SCHOOL ELECTIVE COURSES

Career Exploration I
Students will get the opportunity to explore careers in a variety of fields and disciplines and understand the necessary skills and education needed to choose a future path. Detailed information on the required education and training options for each are included.

Course Length: Semester

Required Materials:
- Computer with:
  - Word document program
  - Slideshow program
  - Pictures or images for slideshows
  - Job Application Form for U8 (downloaded from internet)
- Camera with video recording
- Calculator
- Poster board for U3 Assessment Job Board
- Printed images for U3 Assessment Job Board
- Pencil

Career Exploration II
Explore more careers and see what it takes to succeed. You’ll learn more about what steps are needed to prepare for your career and how to compare the pros and cons of different career choices.

Course Length: Semester

Study Skills and Strategies
The Study Skills and Strategies course equips students with skills and understandings critical to effective learning. Using a unique approach to the traditional topic of study skills, this course weaves understanding regarding the role of the brain in learning into the instruction of discrete learning skills and strategies. Moving beyond a list of good tips and ideas, the Study Skills and Strategies course will challenge students to develop intentional approaches to learning. They will be required to make connections between the strategies and skills they learn in this course and the implementation of those strategies and skills in their other coursework. Upon completion of the course, students will have learned a variety of specific learning skills and strategies, gained greater understanding of their own learning preferences, and become prepared to develop and implement specific learning and study plans for any academic course or other learning needs.

Course Length: Semester
Ready Reading
This course is designed to personalize the student’s learning path in reading. While their core courses are focused on grade level content standards, this course will take the student on a journey that is just the right fit for them. It begins with an online adaptive assessment. This assessment determines what reading skills the student has mastered and what skills may need more practice. From there, individualized lessons will be loaded that enable a student to become a stronger and more confident reader.

Course Length: Full Year

Ready Math
This course is designed to personalize the student’s learning path in math. While their core courses are focused on grade level content standards, this course will take the student on a journey that is just the right fit for them. It begins with an online adaptive assessment. This assessment determines what math skills the student has mastered and what skills may need more practice. From there, individualized lessons will be loaded that enable a student to become a stronger and more confident mathematician.

Course Length: Full Year
ENGLISH LANGUAGE ARTS

HIGH SCHOOL CORE COURSES

Language Arts 9*†
This course includes engaging and interactive instruction about reading, writing, speaking, listening, and language, with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to grade 9. Throughout the course, students practice narrative, informative, and argument writing.
Course Length: Full Year
Credits: 1.0

Language Arts 10*†
This course includes engaging and interactive instruction about reading, writing, speaking, listening, and language, with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to grade 10. Throughout the course, students practice narrative, informative, and argument writing.
Course Length: Full Year
Credits: 1.0
Prerequisites: Language Arts 9

Language Arts 11*†
In this course, students read and analyze works of American literature from colonial to contemporary times, including poetry, short stories, novels, drama, and nonfiction. The literary works provide opportunities for critical writing, creative projects, and online discussions. Students develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics.
Course Length: Full Year
Credits: 1.0
Prerequisites: Language Arts 10

Language Arts 12*†
Students examine major works of literature organized into thematic units. Each unit contains poetry, short stories, and a novel that revolve around the theme for the unit. Themes include the self, relationships, alienation, choice, and death. As students read these works, they have the opportunity to reflect on these important themes by writing in multiple modes and creating cross-disciplinary projects.
Course Length: Full Year
Credits: 1.0
Prerequisites: Language Arts 11

*Has an Honors option  †Has a Credit Recovery option
**Algebra I**
Algebra I introduces students to the world of Algebra through expressions and equations. Students will evaluate algebraic expressions, solve linear equations and graph them. This course also steers students through various real-world scenarios with the emphasis on using basic statistics to interpret the information given and found. This course provides a strong foundation in solving problems. Students will work with problems and applications that involve exponents, quadratic equations, polynomials and factoring methods, rational and radical equations, data analysis and probability.

**Course Length:** Full Year  
**Credits:** 1.0  
**Prerequisites:** Pre-Algebra

**Algebra II**
In this course, students build on their work with linear, quadratic, and exponential functions, and extend their repertoire to include polynomial, rational, radical, and trigonometric functions. Students also expand their ability to model situations and solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The course covers sequences and series, probability distributions, and more advanced data analysis techniques.

**Credits:** 1.0  
**Prerequisites:** Algebra I

**Consumer Math**
This course focuses on the mathematics involved in making wise consumer decisions. Students explore the many ways in which mathematics affects their daily lives. The first semester will cover paychecks and wages, taxes, insurance, budgets, bank accounts, credit cards, interest calculations, and comparison shopping. Second semester topics include vehicle and home purchasing, investing, and business and employee management.

**Course Length:** Full Year  
**Credits:** 1.0
Geometry*†
This course builds on the geometry covered in middle school to explore more complex geometric situations and deepen students’ ability to explain geometric relationships, moving toward formal mathematical arguments. Specific topics include similarity and congruence, analytic geometry, circles, the Pythagorean theorem, right triangle trigonometry, analysis of three-dimensional objects, conic sections, and geometric modeling.

Course Length: Full Year
Credits: 1.0
Prerequisites: Algebra I

Pre-Calculus †
Pre-calculus weaves together previous study of algebra, geometry, and functions into a preparatory course for calculus. The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. Topics include linear, quadratic, exponential, logarithmic, radical, polynomial, and rational functions; systems of equations; and conic sections in the first semester. The second semester covers trigonometric ratios and functions; inverse trigonometric functions; applications of trigonometry, including vectors and laws of cosine and sine; polar functions and notation; and arithmetic of complex numbers.

Course Length: Full Year
Credits: 1.0
Flexibility Training
This course focuses on the often-neglected fitness component of flexibility. Students establish their fitness level, set goals, and design their own flexibility training program. They study muscular anatomy and learn specific exercises to stretch each muscle or muscle group. Students focus on proper posture and technique while training. They also gain an understanding of how to apply the FITT principles to flexibility training. This course explores aspects of static, isometric, and dynamic stretching, as well as touch on aspects of yoga and Pilates. This course also discusses good nutrition and effective cross-training. Students take a pre- and post fitness assessment. Throughout this course students also participate in a weekly fitness program involving flexibility training, as well as elements of cardio and strength training.
Course Length: Semester
Credits: 0.5

Health†
In this course, students acquire the knowledge and skills they need to lead a healthy life. Semester 1 focuses on the impact of personal decisions on the student’s own health. Students learn how to find, evaluate, and use reliable information related to a variety of health topics. They also study the basic science behind nutrition, exercise, stress, and psychology, and examine how these factors affect a person’s overall health. Students learn about some of the more dramatic changes that the human body experiences from birth to death. They explore topics related to aging and sexuality and identify ways to remain healthy and safe throughout life’s major events and challenges.
Course Length: Full Year
Credits: 1.0

Personal Fitness
Learn about body functions, safety, diet, goals, and strategies for longevity.
Course Length: Semester
Credits: 0.5

Physical Education
Physical Education encompasses learning how to live and maintain a healthy lifestyle. This course covers physical fitness, why it is important, how to have a healthy attitude, and how to stick with a healthy game plan. In this ever-changing world, physical fitness becomes more important and more difficult to find the time for. This course allows the student to discover how to make physical fitness not only a part of their daily life, but also see that it is attainable. This course leads the student to discover healthy behaviors and sets the tone for physical fitness as well as healthy exercise. This course will examine the emotional, physical, and scientific factors that influence physical performance. This course is designed for anyone, ranging from the beginner to advanced abilities.
Course Length: Semester
Credits: 0.5

†Has a Credit Recovery option
Running
This course is appropriate for beginning, intermediate, and advanced runners and offers a variety of training schedules for each. In addition to reviewing the fundamental principles of fitness, students learn about goals and motivation, levels of training, running mechanics, safety and injury prevention, appropriate attire, running in the elements, good nutrition and hydration, and effective cross-training. While this course focuses mainly on running for fun and fitness, it also briefly explores the realm of competitive racing. Students take a pre- and post fitness assessment. Throughout this course students also participate in a weekly fitness program involving running, as well as elements of resistance training and flexibility.
Course Length: Semester
Credits: 0.5

Strength Training
This course focuses on the fitness components of muscular strength and endurance. Students establish their fitness level, set goals, and design their own resistance training program. They study muscular anatomy and learn specific exercises to strengthen each muscle or muscle group. Students focus on proper posture and technique while training. They also gain an understanding of how to apply the FITT principles and other fundamental exercise principles, such as progression and overload, to strength training. This course also discusses good nutrition and effective cross-training. Students take a pre- and post fitness assessment. Throughout this course students also participate in a weekly fitness program involving strength training, as well as elements of cardio and flexibility.
Course Length: Semester
Credits: 0.5

Walking Fitness
This course helps students establish a regular walking program for health and fitness. Walking is appropriate for students of all fitness levels and is a great way to maintain a moderately active lifestyle. In addition to reviewing fundamental principles of fitness, students learn about goals and motivation, levels of training, walking mechanics, safety and injury prevention, appropriate attire, walking in the elements, good nutrition and hydration, and effective cross-training. Students take a pre- and post fitness assessment. Throughout this course students also participate in a weekly fitness program involving walking, as well as elements of resistance training and flexibility.
Course Length: Semester
Credits: 0.5
HIGH SCHOOL CORE COURSES

Anatomy and Physiology

**Semester 1: Introduction**
Learn about cell structure and their processes and discover the functions and purposes of the skeletal, muscular, nervous, and cardiovascular systems, as well as diseases that affect those systems.

**Required Materials:**
- Art supplies: paper, writing tools, modeling clay, paint, Styrofoam, or a jelly mold (needed if student is not preparing their project in a digital version)
- Smartphone or camera for recording still images
- Smartphone or video camera
- Home blood pressure monitor, or blood pressure monitor at school nurse, drugstore, etc.

**Semester 2: Discovering Form and Function**
Learn about the structure, function, and interrelation between the lymphatic, immune, respiratory, digestive, urinary, and the endocrine systems. The reproductive system is also discussed along with hereditary traits and genetics.

**Course Length:** Full Year
**Credits:** 0.5 each Semester

Astronomy

**Semester 1: Introduction**
This course will introduce students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Additional topics include the origin of the universe, the Milky Way, and other galaxies and stars.

**Semester 2: Exploring the Universe**
Explore the solar system, the sun, comets, asteroids, and meteors as well as become familiar with the concepts of space travel and settlements. Students will also examine the life cycle of stars and the properties of planets.

**Course Length:** Full Year
**Credits:** 0.5 Each Semester

Biology

Biology introduces students to the scientific method and the major concepts of biology from an historical and practical viewpoint. The three major themes of this course are the cell, the molecular basis of heredity, and the interdependence of organisms. Students who take this class will have a deeper appreciation for the complexities of living organisms.

**Course Length:** Full Year
**Credits:** 1.0

*Has an Honors option
† Has a Credit Recovery option
**Chemistry**<sup>‡</sup>
This comprehensive course gives students a solid basis to move on to future studies. The course provides an in-depth survey of all key areas, including atomic structure, chemical bonding and reactions, solutions, stoichiometry, thermochemistry, organic chemistry, and nuclear chemistry. An algebra background is recommended because of the amount and type of math involved.

**Course Length:** Full Year
**Credits:** 1.0
**Prerequisites:** Algebra I

**Earth Science**<sup>‡</sup>
This course provides students with a comprehensive earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The course prepares students for further studies in geology, meteorology, oceanography, and astronomy courses, and gives them practical experience in implementing scientific methods.

**Course Length:** Full Year
**Credits:** 1.0
**Prerequisites:** Pre-Algebra

**Paleontology**
From Godzilla to Jurassic Park, dinosaurs continue to captivate us. In this course, students will learn about the fascinating creatures both large and small that roamed the earth before modern man. Watch interesting videos from experts at The Royal Tyrrell Museum, a leading paleontology research facility, and discover how the field of paleontology continues to provide amazing insight into early life on Earth.

**Course Length:** Semester
**Credits:** 0.5

**Physics**<sup>‡</sup>
This course provides a comprehensive survey of all key areas: physical systems, measurement, kinematics, dynamics, momentum, energy, thermodynamics, waves, electricity, and magnetism, and introduces students to modern physics topics such as quantum theory and the atomic nucleus. Students apply mathematical concepts such as graphing and trigonometry in order to solve physics problems.

**Course Length:** Full Year
**Credits:** 1.0
**Prerequisites:** Algebra II

*Has an Honors option
†Has a Credit Recovery option
**American Government**†
This course will guide students through an in-depth study of the history, structure, and guiding principles of American government. The first unit will review 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 U.S. Several units will help students explore the roles and responsibilities of each branch of government as well as the impact that the Constitution has had and continues to have on the way government works and on the lives of individual Americans.

**Course Length:** Semester
**Credits:** 0.5

**American History**†
This course covers the discovery, development, and growth of the United States. Major topics include: American Indian cultures; European colonization of the Americas; and the causes and effects of the American Revolution. Geographical, economic, and political factors are explored as the key factors in the growth of the United States of America. By means of reading, analyzing, and applying historical data, students come to appreciate the forces that shaped our history and character as an American people. Students will also look at the nation in terms of economic, social, and political trends during the last century. Not only are the topics of American history discussed, but students also explore research methods and determine accurate sources of data from the past.

**Course Length:** Full Year
**Credits:** 1.0

**Civics**†
In this course students will understand the significance of government, law, and politics. They will examine the United States foundational documents and how they shaped the United States government. Students will examine the purposes and functions of federal, state and local government, the justice system, political systems the environment, and the economy. Learners will evaluate their role and civic responsibility to their families, communities, and country including voting and being a productive member of society.

**Course Length:** Semester
**Credits:** 0.5

*Has an Honors option
†Has a Credit Recovery option
**Economics**
Students are introduced to the basics of economic principles, and they learn the importance of understanding different economic systems. They also investigate how to think like an economist. Students explore different economic systems, including the American free enterprise system, and they analyze and interpret data to understand the laws of supply and demand. Students are also presented with economic applications in today’s world. From economics in the world of business, money, banking, and finance, students see how economics is applied both domestically and globally. Students also study how the government is involved in establishing economic stability in the American free enterprise system as well as how the U.S. economy has a global impact.

**Course Length:** Semester
**Credits:** 0.5

**History of the Holocaust**
Explore 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.

**Course Length:** Semester
**Credits:** 0.5

**World History**
In this comprehensive survey of world history from prehistoric to modern times, students focus in depth on the developments and events that have shaped civilization across time. The course is organized chronologically and, within broad eras, regionally. Lessons address developments in religion, philosophy, the arts, science and technology, and political history. The course also introduces geography concepts and skills within the context of the historical narrative.

**Course Length:** Full Year
**Credits:** 1.0

*Has an Honors option
†Has a Credit Recovery option
American Sign Language I

Semester 1: Introduction
Explore Deaf culture – social beliefs, traditions, history, values and communities influenced by deafness while learning enough vocabulary and simple sentences to start communicating.

Required Materials:
- Computer with:
  - Internet access
  - Word processing program
  - Slideshow creation program
- Cell phone, tablet, or computer camera with sound and video recording abilities
- A person, large stuffed animal, or chair
- 2 people (family, friend, classmate) to use in videos and lead a discussion with
- A photo (or even a drawing) of your family
- A hat—silly, crazy, or ordinary is fine
- Blank Paper
- Drawing tools (pencils, markers, etc.)

Semester 2: Learn to Sign
Introduces you to more of this language and its grammatical structures, expand your vocabulary by exploring interesting topics like Deaf education and Deaf arts and culture.

Course Length: Full Year
Credits: 0.5 each Semester

American Sign Language II

Semester 1: Communicating
Building upon the prior prerequisite course, emphasis in this course is placed upon comprehension and signing. Establish communication skills and foster understanding of deaf culture. In addition to learning classifiers, glossing, and mouth morphemes, students will explore vocabulary for descriptions, directions, shopping, making purchases, and dealing with emergencies.

Required Materials:
- A camera (cell phone, table, or computer camera is fine)
- Photo of family or friends

Semester 2: Advancing Communication Skills
Increase proficiency by learning about sequencing, transitions, role-shifts, and future tenses. Learn how to tell a story and ask questions, while focusing on speed of conversations, signing skills, and cultural awareness.

Required Materials:
- A camera (cell phone, tablet, or computer camera is fine)
- Computer or tablet to play video
- Screen-capture software or camera with ability to record conversation
- Simple video editing software

Course Length: Full Year
Credits: 0.5 each Semester
Prerequisites: American Sign Language I
Chinese I
Students begin their introduction to Chinese by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Both Chinese characters and pinyin are presented together throughout the course and specific character practices are introduced after the first quarter. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various Chinese-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Course Length: Full Year
Credits: 1.0

Chinese II
Students continue their study of Chinese by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also are able to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Character recognition and practice are a key focus of the course and students are expected to learn several characters each unit. However, pinyin is still presented with characters throughout the course to aid in listening and reading comprehension. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Chinese-speaking countries, and take frequent assessments where their language progression can be monitored. By semester 2, the course is conducted almost entirely in Chinese. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Course Length: Full Year
Credits: 1.0
Prerequisites: Chinese I
French I
French I focuses on developing listening skills by repeated exposure to the spoken language. Speaking skills are encouraged through recommended assignments using voice tools. Reading and writing skills, as well as language structures, are practiced through meaningful, real-life contexts. The use of technology enhances and reinforces authentic language development and fosters cultural understandings through exposure to native speakers and their daily routines.

Course Length: Full Year
Credits: 1.0

French II
French II focuses on the continuation and enhancement of language skills presented in Level 1. Vocabulary and grammar structures are revisited and expanded to provide students an opportunity to move towards an intermediate comprehension level. Speaking and listening skills are enhanced through recommended real-life voice activities. Listening skills are honed through online dialogues. Reading and writing skills are developed through access to completion of meaningful activities, reading of culturally-related articles of interest and responding to reading in the target language. The use of technology enhances and reinforces authentic language development and fosters cultural understandings through exposure to native speakers and their daily routines.

Course Length: Full Year
Credits: 1.0
Prerequisites: French I

French III
Students further deepen their understanding of French by focusing on the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of activities which teach the students how to understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in more formal spoken and written contexts. Students should expect to be actively engaged in their own language learning, use correct vocabulary terms and phrases naturally, incorporate a wide range of grammar concepts consistently and correctly while speaking and writing, participate in conversations covering a wide range of topics and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, read and analyze important pieces of French literature, and take frequent assessments where their language progression can be monitored. The course is conducted almost entirely in French. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Course Length: Full Year
Credits: 1.0
Prerequisites: French II
**German I**
German I is an introductory course teaching basic comprehension and communication in German. It coordinates the study of language with culture through the use of video, audio and mass media production. This course assumes prior or no knowledge of the German language. It introduces the fundamentals of conversational and grammatical patterns of the German language with presentations to present the material. Students who complete the course successfully will begin to develop a functional competency in the four primary language areas: speaking, reading, listening and writing, while establishing a solid grammatical base and exploration into German culture.

**Course Length:** Full Year  
**Credits:** 1.0

**German II**
German II students build on grammar and language skills that they acquired during the previous courses. While reviewing basic grammar skills, (present and past tenses), students learn and study stem-changing verb conjugation and explore cultural themes regarding current events, famous German people, music and famous festivals.

**Course Length:** Full Year  
**Credits:** 1.0  
**Prerequisites:** German I
Latin I
Since mastering a classical language presents different challenges from learning a spoken world language, students learn Latin through ancient, time-honored, classical language approaches which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, provide students with a strong foundation for learning Latin. Each unit consists of a new vocabulary theme and grammar concept, reading comprehension activities, writing activities, multimedia culture, history, and mythology presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on engaging with authentic classical Latin through weekly encounters with ancient passages from such prestigious authors as Virgil, Ovid, and Lucretius. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, understand and analyze the cultural and historical contexts of the ancient sources they study, and take frequent assessments where their language progression can be monitored.

**Course Length:** Full Year  
**Credits:** 1.0

Latin II
Students continue with their study of Latin through ancient, time-honored, classical language approaches which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, prepare students for a deeper study of Latin. Each unit consists of a new vocabulary theme and grammar concept, reading comprehension activities, writing activities, multimedia culture, history, and mythology presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on engaging with authentic classical Latin through weekly encounters with ancient passages from such prestigious authors as Virgil, Ovid, and Lucretius. Students should expect to be actively engaged in their own language learning, understand and use common vocabulary terms and phrases, comprehend a wide range of grammar patterns, understand and analyze the cultural and historical contexts of the ancient sources they study, and take frequent assessments where their language progression can be monitored.

**Course Length:** Full Year  
**Credits:** 1.0  
**Prerequisites:** Latin I

Spanish I
Spanish I is designed to develop an authentic and practical understanding of the Spanish language and culture. Students will have the ability to express their thoughts, feelings, and opinions in the target language within basic, real-life situations and learning scenarios. All new concepts, grammatical concepts, and cultural information will be introduced in context while incorporating various listening, speaking and writing activities.

**Course Length:** Full Year  
**Credits:** 1.0
Spanish II
Students build upon the foundation developed in Spanish I. They continue to build vocabulary, learn new verb tenses and other grammar concepts, and they increase their ability to communicate with others. They learn new concepts, like reflexive verbs, infinitive expressions, commands, the imperfect tense. Semester B will continue building on vocabulary, grammar concepts and communicating effectively in the target language. Students will explore new countries where Spanish is spoken and continue to keep abreast of current events in the Spanish-speaking world.
Course Length: Full Year
Credits: 1.0
Prerequisites: Spanish I

Spanish III
Students continue to develop their ability in reading, writing, speaking, and understanding Spanish through a systematic review of its structure. Students focus on applying vocabulary in a wider array of situations by learning about the past progressive and subjunctive moods and the present perfect, future, and conditional tenses.
Course Length: Full Year
Credits: 1.0
Prerequisites: Spanish II
Advanced Placement® English Language & Composition
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.

Course Length: Full Year
Credits: 1.0
Prerequisites: Successful completion of Language Arts 11 and teacher recommendation

Required Materials:
- Analysis, Argument, and Synthesis (AP Honors)
  ISBN-10: 1413848788

Advanced Placement® English Literature & Composition
This course allows students to explore a variety of genres and literary periods and to write clearly about the literature that they encounter. By the end of the second semester, the student will be well prepared for the AP® examination. The student will evaluate 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. In addition to reading, the student will complete a wide variety of writing pieces in order to develop better writing skills in the following areas: narrative, exploratory, expository, and argumentative.

Course Length: Full Year
Credits: 1.0
Prerequisites: Successful completion of Language Arts 11 and teacher recommendation

Required Materials:

- Crime and Punishment by Fyodor Dostoevsky

Primary Textbook
  ISBN-10: 1305971035

Required Textbook for Semester B
- Cracking the AP English Literature & Composition Exam, 2019 Edition

Additional Novels
- Native Son by Richard Wright
- The Color Purple by Alice Walker
- One Hundred Years of Solitude by Gabriel Garcia Marquez
- Orlando by Virginia Woolf

Contact your teacher or advisor about textbook reimbursements for AP® courses.
Advanced Placement® Calculus AB
This course is the equivalent of an introductory college-level calculus course. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena. Students learn to evaluate the soundness of proposed solutions and apply mathematical reasoning to real-world models. Students also learn to understand change geometrically and visually (by studying graphs of curves), analytically (by studying and working with mathematical formulas), numerically (by seeing patterns in sets of numbers), and verbally. Students prepare for the AP® exam
Course Length: Full Year
Credits: 1.0
Prerequisites: Successful completion of Pre-Calculus and teacher recommendation
Required Materials:
- Graphing calculator
- Calculus (AP Edition Updated – 2016) By Ron Larson, Bruce Edwards
  ISBN-10: 1305952871
- Cracking the AP Calculus AB Exam 2019
  ISBN-10: 1524757977

Advanced Placement® Calculus BC
AP® Calculus BC is roughly equivalent to both first and second semester college calculus courses and extends the content learned in AB to different types of equations and introduces the topic of sequences and series. The AP® course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.
Course Length: Full Year
Credits: 1.0
Prerequisites: Successful completion of Pre-Calculus and teacher recommendation
Required Materials:
- Graphing calculator
- Calculus: Early Transcendentals 8Th Edition By James Stewart
  ISBN-10: 1285741552
- Cracking the AP Calculus BC Exam, 2019 Edition
  ISBN-10: 1524757993

Required Textbook for Semester B
- Cracking the AP Calculus BC Exam, 2019 Edition

Contact your teacher or advisor about textbook reimbursements for AP® courses.
Advanced Placement® Biology
This course 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. Students learn about regulation, communication, and signaling in living organisms, and interactions of biological systems. Students carry out a number of learning activities, including readings, interactive exercises, extension activities, hands-on and virtual laboratory experiments, and practice assessments. These activities are designed to help students gain an understanding of the science process and critical thinking skills necessary to answer questions on the AP® Biology exam.
Course Length: Full Year
Credits: 1.0
Prerequisites: Successful completion of Biology and teacher recommendation
Required Materials:
- Campbell Biology AP Edition 2017 by Lisa Urry, Michael Cain, Steven Wasserman, Peter Minorsky, Jane Reece, Neil Campbell
  ISBN-10: 134433696
- 5 Steps to a 5 AP Biology 2019
  ISBN-10: 1260122816
- Lab kit

Advanced Placement® Chemistry
This course is taught at the college level and is designed to prepare students to take the AP® Examination. Topics include an introduction to chemistry as the study of change, gases, thermochemistry, quantum theory, chemical bonding, crystals, phase changes, solutions, chemical kinetics, chemical equilibrium, acids and bases, entropy, electrochemistry, nuclear chemistry, metallurgy, alkali and alkaline metals, nonmetallic metals, transition metals, organic chemistry, and synthetic and natural organic polymers.
Course Length: Full Year
Credits: 1.0
Prerequisites: Successful completion of Chemistry and teacher recommendation
Required Materials:
  ISBN-10: 007672770X
- Cracking the AP Chemistry Exam 2019
  ISBN-10: 0525567496
- Advanced Microchem Kit

Contact your teacher or advisor about textbook reimbursements for AP® courses.
Advanced Placement® Physics
AP® Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Twenty-five percent of instructional time is devoted to hands-on laboratory work with an emphasis on inquiry-based investigations. Investigations will require students to ask questions, make observations and predictions, design experiments, analyze data, and construct arguments in a collaborative setting, where they direct and monitor their progress.

Course Length: Full Year
Credits: 1.0
Prerequisites: Successful completion of Algebra II and teacher recommendation

Required Materials:
- Graphing Calculator
- Cracking the AP Physics 1 Exam, 2019
  ISBN-10: 1524758086
- Bernier Dynamics Track and Cart System
- Lab Materials

Advanced Placement® European History
This AP® study of European history since 1300 introduces students to economic, cultural, social and political developments. These developments played a fundamental role in shaping the world in which they live. Second Semester will introduce students to the birth of modern political thought, Great Depression and World War II. They will study the Cold War and the collapse of communism and wrap up with the dawn of the 21st Century. Students will complete a project at the end of each unit with the final project being a critical analysis. This course will prepare student for the AP® Exam.

Course Length: Full Year
Credits: 1.0
Prerequisites: Available to grades 11 and 12

Required Materials:
Semester 1
- Western Heritage, since 1300 (11th Edition)
  by Donald Kagan
- Cracking the AP European History Exam, 2019 Edition

Contact your teacher or advisor about textbook reimbursements for AP® courses.
**Advanced Placement® Government & Politics**

This course examines the U.S. political system. Students in this course will discuss political ideology, the development of the political system and democratic institutions. Students should, according to the College Board, gain an “analytical perspective on government and politics in the United States.” Furthermore, students will study “both the general concepts used to interpret U.S. politics and the analysis of specific examples” throughout history. The class discussion will require that students acquire a “familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics.” The main emphasis of the course, however, is to be able to apply a basic comprehension of the U.S. political system to contemporary events.

**Course Length:** Full Year  
**Credits:** 1.0  
**Prerequisites:** Available to grades 11 and 12  
**Required Materials:**  
  ISBN-10: 007678827X  
- Cracking the AP U.S. Government & Politics Exam 2019  
  ISBN-10: 0525567607

**Advanced Placement® US History**

This course focuses on exploring and analyzing American historical events, individuals and cultural trends. Students will be prepared with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in United States History. This first semester course covers the time frame of 1492 to 1877, and the second semester course covers the time frame 1878 to present. This course is designed to prepare students for the AP® exam in United States History.

**Course Length:** Full Year  
**Credits:** 1.0  
**Prerequisites:** Available to grades 11 and 12  
**Required Materials:**  
- The American Pageant 16th Edition by David M. Kennedy, Lizabth Cohen  
  ISBN-10: 1305075900  
- Cracking the AP U.S. History Exam, 2019  
  ISBN-10: 1524758167

*Contact your teacher or advisor about textbook reimbursements for AP® courses.*
Advanced Placement® World History
The first semester of AP® World History delves into the history of mankind. Looking back to the prehistoric times, students will develop the connections between the early river valleys, the beginnings of civilizations, and governments. Through this semester, students will be introduced to concepts that will be placed on the AP® examination, and will also be given multiple opportunities to practice skills necessary for the AP® exam. This specific time will start from the First Agricultural Revolution to the Age of Exploration. The second semester of AP® World History is a continuation of semester one, starting with how Europe evolved from the colonies being brought into the New World. This course will continue to make connections between nations and look at the big picture concepts of the world until present day. This semester will also spend one time preparing specifically for the AP® exam.

**Course Length:** Full Year  
**Credits:** 1.0  
**Prerequisites:** Available to grades 11 and 12  
**Required Materials:**  
  ISBN-10: 0076681289  
- AP World History Prep Plus 2018-2019  
  ISBN-10: 150620337X

Contact your teacher or advisor about textbook reimbursements for AP® courses.
Advanced Placement® French Language & Culture

The AP® French Language and Culture course is an advanced language course in which students are directly prepared for the AP® French Language and Culture test. It uses as its foundation the three modes of communication: interpersonal, interpretive and presentational. The course is conducted almost exclusively in French. The course is based on the six themes required by the College Board: (1) global challenges, (2) science and technology, (3) contemporary life, (4) personal and public identities, (5) families and communities, and (6) beauty and aesthetics. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. Students should expect to listen to, read, and understand a wide-variety of authentic French-language materials and sources, demonstrate proficiency in interpersonal, interpretive, and presentational communication using French, gain knowledge and understanding of the cultures of the Francophone world, use French to connect with other disciplines and expand knowledge in a wide-variety of contexts, develop insight into the nature of the French language and its culture, and use French to participate in communities at home and around the world. The AP® French Language and Culture course is a college level course. The intensity, quality, and amount of course material can be compared to that of a third-year college course.

Course Length: Full Year
Credits: 1.0
Prerequisites: Successful completion of French III and teacher recommendation

Required Materials:

Required Textbook for Semester B
- Barron’s AP French Language and Culture
  ISBN-10: 1438076037

Contact your teacher or advisor about textbook reimbursements for AP® courses.
Advanced Placement® Spanish Language

The AP® Spanish Language and Culture course is an advanced language course in which students are directly prepared for the AP® Spanish Language and Culture test. It uses as its foundation the three modes of communication: interpersonal, interpretive and presentational. The course is conducted almost exclusively in Spanish. The course is based on the six themes required by the College Board: (1) global challenges, (2) science and technology, (3) contemporary life, (4) personal and public identities, (5) families and communities, and (6) beauty and aesthetics. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. Students should expect to listen to, read, and understand a wide-variety of authentic Spanish-language materials and sources, demonstrate proficiency in interpersonal, interpretive, and presentational communication using Spanish, gain knowledge and understanding of the cultures of Spanish speaking areas of the world, use Spanish to connect with other disciplines and expand knowledge in a wide-variety of contexts, develop insight into the nature of the Spanish language and its culture, and use Spanish to participate in communities at home and around the world. The AP® Spanish Language and Culture course is a college level course. The intensity, quality, and amount of course material can be compared to that of a third-year college course.

Course Length: Full Year
Credits: 1.0
Prerequisites: Successful completion of Spanish III and teacher recommendation

Required Materials:

Required Textbook for Semester B
- Cracking the AP Spanish Language & Culture Exam with Audio CD
  ISBN-10: 1524758132

Contact your teacher or advisor about textbook reimbursements for AP® courses.
Agriscience I: Introduction
Examine how agriscientists are at the forefront of improving agriculture, food production, and the conservation of natural resources. Learn about the innovative ways that science and technology are put to beneficial use in the field of agriculture and the controversies that surround agricultural practices.
Course Length: Semester
Credits: 0.5

Agriscience II: Sustaining Human Life
Learn how science and technology are revolutionizing our food supply and promoting innovative ways to produce healthy plant-based foods, such as developing better hybrids and growing edible plants in challenging places.
Course Length: Full Year
Credits: 1.0
Required Materials:
- Plant seeds or cuttings
- Growing media
- Growing container
- A sharp blade and rooting hormone, depending on the plant you choose
- Soil or other growing media
- Soil test kit
- 2-3 pots
- Seeds of your choice (make sure your growing medium is appropriate for the seed you chose)
- Plant
- Pest management materials (vary based on chosen strategy)

Forestry and Natural Resources
Learn how environmental policy, land use, water resources, and wildlife management all factor into current forestry issues.
Course Length: Full Year
Credits: 1.0
Required Materials:
- A digital camera or camera phone
- Approximately 1 cup of soil
- A clear glass jar with a lid
- Water to fill the jar
- A ruler or tape measure
- Marker or tape
- Supplies for an experiment of the student’s choice
- Samples of water from three different water sources
- 3 clear glass containers with lid
Introduction to Renewable Technologies
Research the development of new energy technologies and explore how recent approaches to generating, storing, and creating this precious resource have evolved.
Course Length: Full Year
Credits: 1.0

Principles of Agriculture, Food and Natural Resources
Gain a stronger sense of how food ends up on the plate and how we can maximize the foods and natural resources the earth provides. You’ll learn more about agriculture’s history, animal husbandry, plant science, and natural resources, and you’ll be better prepared for your part in sustaining the world.
Course Length: Full Year
Credits: 1.0
Required Materials:
- A digital camera or camera phone
- Supplies for an experiment of the student’s choice

Renewable Energy
The earth’s population is growing rapidly, and we need to find new, innovative ways to ensure that we are able to provide for our global energy needs. Students will look at the reasons why sustainability is important, take a balanced and evidence-based look at climate change, and learn new ways that we can harness renewable resources.
Course Length: Semester
Credits: 0.5
**Animation**

Learn how to use animation tools to conceptualize and bring your animation dreams to life. By using a variety of software and design programs, you’ll have the power to transform your creative notions into reality as you design, define, and complete a variety of digital design projects, including creating your own website!

**Course Length:** Full Year  
**Credits:** 1.0

**Required Materials:**  
The following programs will need to be downloaded for use during the course:  
- Stop Motion Studio App  
- GIMP (GNU Image Manipulation Program)  
- Tupi 2D Magic

**Required System Requirements:**  
- 2 GB of RAM  
- 32-bit dual core

**Recommended Items and Computer System Requirements:**  
- Smartphone or tablet computer  
- Computer with keyboard that includes number pad  
- 64-bit quad core CPU  
- 8 GB of RAM

**Additional Materials:**  
- Modeling clay (optional)  
- Camera (can be an actual camera or a camera on a tablet or device)  
- Scissors  
- Stiff paper or cardboard

**Art Appreciation**

What makes an artwork a masterpiece? Why do artists create art? What is the difference between Rococo and Art Nouveau? In this course, students will discover the answers to these questions and more. We examine the elements of art and principles of design, and explore how artists have used these elements and principles in the creation of art for centuries.

**Course Length:** Semester  
**Credits:** 0.5
Art in World Cultures
Learn about some of the greatest artists in the world while creating your own art, both on paper and digitally. This course explores basic principles and elements of art and teaches you how to critique different works of art.
Course Length: Full Year
Credits: 1.0

Arts Careers
For every Broadway dancer, every television star, and every pop singer, there are countless people behind the scenes helping to make it happen. Arts Careers introduces students to the skills that are part of many fascinating careers in the arts. Studying the arts creates independent and innovative thinkers and many doors are open to an artist with the proper training.
Course Length: Semester
Credits: 0.5

Culinary Arts I
Semester 1: Introduction
Learn about the history and development of the food service industry, the basics of nutrition and different dietary needs, and laws and regulations governing food service. Develop fundamental culinary arts skills, including how to read and follow recipes, understand weight and measurements used in the food service industry, and how to be safe and sanitary in the kitchen.

Required Materials:
- A digital camera or camera phone
- A medium-size skillet
- A flat spatula
- A gas or electric range
- 4 large flour tortillas
- 16 oz shredded cheddar cheese (2 cups)
- 1 cup sliced green chilies
- 1 Tbsp vegetable oil
- Sour cream and/or guacamole for toppings (optional)

Unit Three

Unit Four
- Kitchen mixer
- 7 egg whites
- 2 tsp vanilla
- ¼ tsp salt
- 1 tsp cream of tartar
- 14 Tbsp sugar
- Food thermometer

Unit Six
- Medium-size frying pan
- Tongs
- Spoon
- Paper towel
- Knife
- Gas or electric range
- 1 chicken breast and thigh with skin
- 6 Tbsp flour
- 1 tsp paprika
- 2 oz vegetable oil (¼ cup)
- Salt and pepper to taste
Semester 2: Exploring Careers
Discover how to elevate your culinary skills through the creation of stocks, soups, sauces, and learn baking techniques. Examine sustainable food practices and the benefits of nutrition while maintaining taste, plating, and presentation.

Required Materials:
- A digital camera or camera phone

Unit One
- Fresh shrimp (any quantity)
- Saucepan
- Gas or electric range

Unit Four
- Table or flat surface
- Large plate
- 1 small plate
- 2 glasses
- 2 spoons
- 2 forks
- 2 butter knives
- 1 napkin

Unit Five
- 1 medium-size frying pan
- 1 medium-size bowl
- 1-cup or 2-cup measuring cup
- Spatula
- 1 9x13 casserole dish
- Gas or electric range

Unit Six
- Kitchen mixer with flat beater attachment
- Rubber spatula
- Spoon
- Baking tray lined with parchment paper
- Cling film (i.e. plastic wrap)
- 6 oz brown sugar (¾ cup)
- 3.5 oz butter (7 Tbsp)
- 4 Tbsp molasses
- 1 egg
- 13 oz flour (about 1 ½ cups)
- 2 tsp baking soda
- ½ tsp ground cloves
- 1 tsp cinnamon
- ¼ tsp salt

Course Length: Full Year
Credits: 0.5 each Semester
Culinary Arts II: Baking, Pastry, and More!

Explore baking and desserts, learn how to prepare proteins, and study nutrition and safety in the kitchen. Enhance your understanding of sustainability in the food industry, and the business of cooking, from managing a kitchen to successfully running a catering company.

**Course Length:** Full Year  
**Credits:** 1.0  
**Prerequisites:** Culinary Arts I

**Required Materials:**
- Smartphone or other way to take videos/photographs  
- Presentation software (Microsoft Powerpoint, etc.)  
- Stove  
- Oven  
- Baking and roasting pans/sheets  
- Pots and frying pans  
- Measuring spoons, cups and jugs  
- Metal mixing bowls  
- Wooden spoon/rubber spatula  
- Baking parchment  
- Serving plates  
- Cutlery  
- Water  
- Salt

**Unit 1**
- Any dry ingredient (flour, sugar, etc.)  
- Any liquid ingredient (eggs, milks, etc.)  
- Kitchen equipment for maintenance (e.g., mixer or blender) with owners manual if possible  
- Cleaning materials (dish soap, sanitizer, cleaning sponge, clean cloth)

**Unit 2**
- Bread flour  
- Leavening agents (including yeast)  
- Butter or preferred oil  
- Pre-prepared bread mix  
- Bread pans

**Unit 3**
- Flour  
- Sugar  
- Sweet and savory pie fillings (fruit, meats, etc.)  
- Butter and shortening  
- Eggs  
- Pie pan

**Unit 4**
- Flour  
- Butter  
- Sugar  
- Eggs  
- Cream  
- Cake pan

**Unit 5**
- Freezer  
- Chocolate  
- Thermometer  
- Double boiler  
- Baking parchment  
- Pastry bag with variety of tips  
- Fruit  
- Sugar  
- Garnishing tool of choice

**Unit 6**
- Tools of choice for molecular gastronomy

**Unit 7**
- Writing, printing, and/or drawing materials for props and planning video  
- Gluten free alternative ingredient

**Unit 8**
- Three fair trade ingredients

**Unit 9**
- Two proteins of choice (fish, beef, etc.)

**Unit 10**
- Ingredients from various cultures  
- Large serving plate or dish  
- Cutlery for serving  
- Writing materials  
- Printer access

**Unit 11**
- Materials or program for designing menus  
- Writing materials  
- Materials or program for presentation diagrams
Digital Media
Digital Media is a project-based survey of different forms of digital media, such as digital audio, imaging and illustration, movie editing, and animation. It’s oriented toward teaching broad, flexible tools and concepts that are not tied to any one platform or program. Each module ends with a culminating task (like a podcast or short film), and students will be able to draft and develop their projects as they build their skills over each lesson.
Course Length: Semester
Credits: 0.5

Digital Photography I
Semester 1: Introduction
Learn the basics of photography and camera functions, including aperture, shutter speed, natural vs. artificial lighting, and elements of composition. Students will explore how an image is created and will study the history of photography and advances in camera technology over the last several centuries.

Semester 2: Creating Images With Impact!
Build on the composition techniques and camera functions you learned in Digital Photography 1a to build a portfolio of a variety of images. Learn special techniques that will help you shoot quality portraits, action shots, and landscapes. Explore sports, pet, and wildlife photography and discover various career paths in the field.
Course Length: Full Year
Credits: 0.5 each Semester
Required Materials:
- Manual camera or digital camera with manual settings (the camera needs to allow for the mode, shutter speed, and aperture to be adjusted)
  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.
- Tripod (or necessary item(s) to create a stable foundation such as a table)
- Reflector (white paper, poster board, sheets, or a wall can also serve as a reflector)
- Image editing software
- Access to a slideshow application, such as PowerPoint
Digital Photography II: Discovering Your Creative Potential
Examine various aspects of the field including specialty areas, ethics, and famous photographers throughout history. You will also learn how to effectively critique photographs so you can better understand composition and go on to create more eye-catching photographs on your own.

Course Length: Semester
Credits: 0.5
Prerequisites: Digital Photography I

Required Materials:
- Digital camera: “point and shoot” or above
  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.
- One frame (of your choice) to display a photograph on the wall
- 3M strip (or something similar)
- Image editing software capable of the following:
  - cropping
  - changing a photo to black and white
  - adjusting color and brightness
  - resizing images
  - applying filters and special effects like texture or glitter
  - creating layers

Fashion and Interior Design
Explore the world of design and try your hand at designing through a project-based process, learning how color, composition, and texture can all affect great aesthetics. You’ll develop the kind of portfolio that will lead to future career opportunities.

Course Length: Full Year
Credits: 1.0

Required Materials:
- Clothing items
- Sewing machine
- Digital camera
- Thread
- Fabric
- Clothing patterns
- Measuring tape
- Sketchpad
- Paper
- Scissors

Film and Television
The culture of cinema and television tells a unique story of history and innovation. Students in Film and Television will be introduced to industry icons and stars of the big and small screen. By studying and writing about film and television, students will analyze trends in technology and culture and better understand how to be an informed viewer.

Course Length: Semester
Credits: 0.5
Music Appreciation: The Enjoyment of Listening
Provides a historical perspective on music from the Middle Ages to the 21st century, but it will also teach you the essentials of how to listen and really hear (with a knowledgeable ear) the different music that’s all around you.
Course Length: Semester
Credits: 0.5

Theater, Cinema and Film Production
Learn the basics of lighting, sound, wardrobe, and camera work while examining the magic that happens behind all the drama. Discuss and analyze three classic American films—Casablanca, Singin’ in the Rain, and The Wizard of Oz—to help you learn how to critique and appreciate some of the most famous dramas of all time.
Course Length: Full Year
Credits: 1.0
Required Materials:
You will be required to have access to the standard editions of the three films used in this course:
- Singin’ in the Rain (1952)
- Wizard of Oz (1932)
- Casablanca (1942)
If you do not already have access to these movies, you may consider other sources such as your local library.

Note: Timestamps referenced throughout the course apply to standard editions of the applicable film and may not align with any extended/modified versions.
Accounting
In this semester course, students will explore accounting, including investigating accounting careers. Students will learn 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. Students will also learn how to reconcile a bank statement and to prepare payroll records. This course covers the basic principles of financial accounting for individuals and for companies with attention to both the mathematical formulas and to the ethical side of accounting. Each unit has practical exercises including a project at the end of the unit.
Course Length: Semester
Credits: 0.5

Advertising and Sales Promotion
Learn how marketing campaigns, ads, and commercials are brought to life and meet some of the creative folks who produce them. Examine different marketing career opportunities.
Course Length: Full Year
Credits: 1.0
Required Materials:
- A digital camera or camera phone

Business Information Management
Semester 1: Introduction
Explore types of businesses and the elements of business planning. Learn about the initial requirements to start a business, examine business finances, marketing, sales, and the importance of customer service. Computer hardware, networks, and the internet are discussed as well as the basics of web design, ethics and business law.
Required Materials:
- Sheets of plain paper, 8.5 x 11
- If students create mock-ups by hand, then paper will be required, but students may create mock-ups by hand, in Word, or some other electronic application.
- Chrome, Edge, or Firefox internet browser
- PDF reading capability
- If students choose to create folders and files in their own Dropbox account, then they will require login credentials, but the assignment can be completed in Windows Explorer.

Semester 2: Data Essentials
Learn about professional conduct, team work, and managerial skills while also examining careers in business technology. The basics of word processing, spreadsheets, databases, and presentation software are explored while you become comfortable operating each of these programs.
Course Length: Full Year
Credits: 0.5 each Semester
Business Law
Students learn about the American legal system. They examine ethics, court systems, criminal law, and law of torts. They examine how the court systems work together, and what misconduct results in going to court. It is important to also understand your consumer rights. As they progress through the course, they will also gain an understanding from a business perspective what is right and wrong business actions and employment laws. As an employee or employer it is important to understand the laws that protect the employee and employer. The study will focus on the formation of a business and the basic legal issues associated with each type of business.
Course Length: Semester
Credits: 0.5

Entrepreneurship: Starting Your Business
Discover what is needed to operate a personal business from creating a plan, generating financing, and pricing products to marketing services and managing employees.
Course Length: Full Year
Credits: 1.0
Required Materials:
- Students need a video camera or recording device for their projects.

Hospitality and Tourism I: Traveling the Globe
This course introduces you to a thriving industry that caters to the needs of travelers through managing hotels, restaurants, cruise ships, resorts, theme parks, and any other kind of hospitality you can imagine.
Course Length: Full Year
Credits: 1.0

Hospitality and Tourism II: Hotel and Restaurant Management
Learn about what makes the hotel and restaurant industries unique. Learn about large and small restaurants, boutique and resort hotels, and their day-to-day operations. Evaluate the environment for these businesses by examining their customers and their competition.
Course Length: Semester
Credits: 0.5
Prerequisites: Hospitality and Tourism I
Required Materials:
- Computer with:
  - Internet access
  - Slideshow program like Keynote or PowerPoint
  - Word processing program like Microsoft Word
- Video recording device
- Audio recording device
- A friend or family member to assist with various activities/labs
- A real or fake telephone to use as a prop
Optional Materials:
- Only needed if student will not create labs/activities digitally
  - Crayons, markers, colored pencils
  - Glue
  - Scissors
  - Poster board or butcher paper
  - Printer
International Business: Global Commerce in the 21st Century
Gain the knowledge, skills, and appreciation to live and work in the global marketplace. Begin to understand 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 a global business in the 21st century.
Course Length: Semester
Credits: 0.5

Introduction to Business
This course introduces students to the basic business concepts that will help them understand how a business survives in today’s economy and the role that consumers play in the same economy. Students will learn how to balance a checkbook, save for the future, and use credit wisely. Students will also learn how to create a resume and how to participate in a job interview.
Course Length: Semester
Credits: 0.5

Manufacturing: Product Design and Innovation
In this course, you will learn about different types of manufacturing systems as well as career opportunities, including engineers, technicians, and supervisors. As a culminating project, you will plan your own manufacturing process and create an entirely original product!
Course Length: Full Year
Credits: 1.0

Marketing Foundations
Semester 1: Introduction
Learn about the role of marketing in business in addition to the basics of business management, customer service, and economics. Furthermore, examine how to identify target markets, perform market research, and develop successful marketing strategies. Finally, the legal and ethical considerations of business and marketing are discussed along with the impact of government on business.

Semester 2: Building Your Base
Building on the prior, prerequisite course, understand branding, advertising, promotion strategies, and more. Learn about effective sales techniques and discover employment opportunities to pursue a career in this exciting field!
Course Length: Full Year
Credits: 0.5 each Semester
Principles of Business, Marketing, Finance

Semester 1: Introduction
Explore different types of businesses and ownership forms, the impact of governments on business, and the marketing of goods and services. Learn about globalization, free trade, and various economic systems.

Semester 2: Targeting Your Business Insight
Expand your knowledge of the basics to explore advanced topics, such as marketing strategy, banking, and investments. Examine employability skills and careers in business, finance, and marketing as well as various entrepreneurship opportunities.

Course Length: Full Year
Credits: 0.5 each Semester

Required Materials:
• Computer with:
  • Internet access
  • Word processing program
  • Slideshow program
  • Video recording device (camera phone or computer camera)

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

Course Length: Semester
Credits: 0.5

Required Materials:
• A digital camera or camera phone
• Ingredients and tools to make a simple food dish of the student’s choice
• Stove/grill/oven/microwave

Sports and Entertainment Marketing
Explore basic marketing principles while delving deeper into the sports and entertainment industry. Learn how professional athletes, sports teams, and famous entertainers are marketed as commodities and how the savvy people who handle these deals can become very successful.

Course Length: Full Year
Credits: 1.0


**Journalism**

**Semester 1: Introduction**
Explore the history of journalism and see how social media and the digital world has changed the way news media operates. Learn the basics of press law as well as the code of ethics journalists should follow. Finally, understand how to make your writing and speaking more powerful, and discover the importance of pictures and images when telling a story.

**Semester 2: Investigating the Truth**
Learn how to write a lead that grabs your readers, discover the roles of sources and how to interview them effectively, and explore the best options for researching your story in a digital world. Understand the role editors and producers play in the revision process, learn how to prepare your posts for publication, and how to follow the publication process—from the flow of a work day to the layout of a newspaper or a news broadcast.

**Course Length:** Full Year  
**Credits:** 0.5 each Semester

**Media and Communications**
From banner ads to billboards, newspaper articles, and Facebook feeds, people are constantly sharing ideas. This course looks at the many facets of mass media. Students will learn how the media shapes every aspect of our lives. We examine the role of newspapers, books, magazines, radio, movies, television, and the growing influence of Facebook, YouTube, and Twitter.

**Course Length:** Semester  
**Credits:** 0.5

**Photojournalism**
A powerful image can tell an eloquent story without words. Students in Photojournalism will be introduced to some of the pioneers who set the standards for this unique way of storytelling. As they study the principal types of photojournalism and the ethical responsibilities a photojournalist has behind the lens, students will develop their own storytelling skills through their writing and their photographs.

**Course Length:** Semester  
**Credits:** 0.5
**Public Speaking**

**Semester 1: Introduction**
Learn from famous orators, like Aristotle and Cicero, understand the influence of rhetoric, and discover how to recognize bias, prejudice, and propaganda. You will also learn how to plan a speech, build an argument, and communicate effectively, while collaborating with others.

**Semester 2: Finding Your Voice**
Explore the use of inductive and deductive reasoning, learn how to prepare a speech outline, and discover how to write your own speech using correct and emotive language. Develop self-efficacy and self-esteem, reduce your fear of public speaking, and learn how to use body language effectively.

**Course Length:** Full Year
**Credits:** 0.5 Each Semester

**Social Media: Our Connected World**
Learn the ins and outs of social media platforms such as Facebook, Twitter, Pinterest, Google+, and more and how to use them for your benefit—personally, academically, and, eventually, professionally.

**Course Length:** Semester
**Credits:** 0.5
Cybersecurity

**Semester 1: Foundations**
This course introduces you to the tools, technologies, and methods needed to protect online information and addresses how these issues are impacting safety and rights on a global and personal level.

**Required Materials:**
- Slide-show presentation program
- Word processing program

**Software:**
- Virtual Box

In order to run VirtualBox on your machine, you need:
- CPU: Recent Intel or AMD processor
- Memory: 2+GB RAM
- Hard disk: About 4GB free hard disk space
- Supported Operating System: Windows, Mac OS X, Linux, Solaris and OpenSolaris.

**Other Materials:**
- USB memory stick (Recommended to be at least 4 GB)

**Optional Materials:**
- Only needed if student chooses to do some activities/labs by hand.
  - Printer
  - Blank paper (a variety of sizes)
  - Markers, crayons, pens, pencils

**Semester 2: Defense Against Threats**
Learn to avoid the various types of cyber attacks, including those to your social media accounts. Dig into these crimes in depth by taking a look at cyber forensics and other cybersecurity careers.

**Required Materials:**
- Slide-show presentation program
- Word processing program

**Software:**
- Virtual Box

In order to run VirtualBox on your machine, you need:
- CPU: Recent Intel or AMD processor
- Memory: 2+GB RAM
- Hard disk: About 4GB free hard disk space
- Supported Operating System: Windows, Mac OS X, Linux, Solaris and OpenSolaris.

**Other Materials:**
- USB memory stick (Recommended to be at least 4 GB)

**Optional Materials:**
- Only needed if student chooses to do some activities/labs by hand.
  - Printer
  - Blank paper (a variety of sizes)
  - Markers, crayons, pens, pencils
Excel: Office Fundamentals Series
Discover 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. Explore how Excel integrates with other Microsoft Office processes and learn how to collaborate on files and presentations. Course applies to the Microsoft Office Suite Certification Exam.
Course Length: Semester
Credits: 0.5

Outlook: Office Fundamentals Series
Learn Outlook’s functions to produce professional communications. Understand effective communication techniques, work with attachments, format a reply and manipulate calendars, contacts and tasks. Content applies to the Microsoft Office Suite Certification Exam.
Course Length: Semester
Credits: 0.5

Principles of Information Technology
Learn about computer hardware, VonNeumann architecture, peripherals, and maintenance as well as data management and storage options. Learners will trace the history of operating systems and application software while also exploring network systems, administration, and troubleshooting.
Course Length: Semester
Credits: 0.5

Required Materials:

Hardware:
- A computer with Internet access
- A video camera or a smartphone with video capability

Software:
- A word processing program such as Microsoft Word
- A spreadsheet program such as Microsoft Excel
- A database program such as Microsoft Access or Obvibase

Other:
- A working Google account: This course is using Google Chrome browser 71.0.3578.98 in screenshots and demos.
**PowerPoint: Office Fundamentals Series**

Learn to create clean and professional presentations while also building your skills as a speaker, leader, and marketer! Create and format presentations while inserting multimedia, images, transitions, and animations to make a dynamic final product! Content of this course will also be applicable to the Microsoft Office Suite certification exam.

**Course Length:** Semester  
**Credits:** 0.5  

**Required Materials:**  
- Microsoft Office 2019, or an Office 365 Subscription  
- Audio and Video recording capabilities for computing device that runs PowerPoint (student will record themselves giving a presentation)

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**Word: Office Fundamentals Series**

Learn how to use fonts, colors and editing tools to create letters and reports. Discover how to format documents, create tables, use bullets and numbering, and insert images. Content of this course prepares you to take the MOS Word Certification exam and is applicable to the Microsoft Office Suite Certification Exam.

**Course Length:** Semester  
**Credits:** 0.5  

**Required Materials:**  
- Microsoft Office 2019, or an Office 365 Subscription  
- The student will create an account with some file or web hosting site (Dropbox, Google Docs, Wix, etc.) to create an E-portfolio as a capstone project for the course
**Careers in Criminal Justice**
Discover the different career choices in criminal justice and how the juvenile justice system, the correctional system, and the trial process all work together to maintain social order.

*Course Length:* Full Year  
*Credits:* 1.0

**Criminology: Inside the Criminal Mind**
Investigate how the psychological, biological, and sociological mental state of a person affects the criminal mind and how the criminal justice system upholds the law.

*Course Length:* Semester  
*Credits:* 0.5

**Forensic Science I: Secrets of the Dead**
Learn the techniques and practices applied during a crime scene investigation and how clues and data are recorded and preserved. Understand how forensic science applies technology as you follow the entire forensic process—from pursuing the evidence trail to taking the findings to trial.

*Course Length:* Semester  
*Credits:* 0.5

**Forensic Science II: More Secrets of the Dead**
Learn basic scientific principles used in the lab, such as toxicology, material analysis, microscopy, and forensic anthropology and find out how scientists use everything from insects to bones to help them solve crimes.

*Course Length:* Semester  
*Credits:* 0.5  
*Prerequisites:* Forensic Science I

**Forensics: The Science of Crime**
Learn the specialized skills and techniques used during a crime scene investigation and how evidence and data is expertly collected, preserved, and analyzed. Participate in interactive activities, and follow the entire forensic process.

*Course Length:* Full Year  
*Credits:* 1.0  
*Prerequisites:* Forensic Science II
Law and Order: Introduction to Legal Studies
In this course, you'll delve deeper into the importance of laws and consider how their application affects us as individuals and communities. Learn about the court system and how laws are actually enacted.

Course Length: Semester
Credits: 0.5

National Security
Learn about the 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.

Course Length: Semester
Credits: 0.5
**Advanced Work Experience**
The Advanced Work Experience course is designed to provide a work-based learning experience to fit individual students’ career interests and to provide them with the skills to apply for and succeed in a future career. Students will be required to work/volunteer a minimum of 120 hours during the semester, along with the completion of 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 on a monthly/weekly basis.

**Course Length:** Semester  
**Credits:** 1.0

**Work Experience**
The Work Experience course is designed to provide a work-based learning experience to fit individual students’ career interests and to provide them with the skills to apply for and succeed in a future career. Students will be required to work/volunteer a minimum of 60 hours during the semester, along with the completion of 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 on a monthly/weekly basis.

**Course Length:** Semester  
**Credits:** 0.5
First Aid and Safety
In this course, students learn and practice first aid procedures for a variety of common conditions, including muscular, skeletal, and soft tissue injuries. In addition, students learn how to appropriately respond to a variety of emergency situations. They also learn the procedures for choking and CPR for infants, children, and adults. In addition to emergency response, students will explore personal, household, and outdoor safety, and disaster preparedness.
Course Length: Semester
Credits: 0.5

Health Careers
In this course students explore a variety of career options related to the health care field, including medicine, nursing, physical therapy, pharmacy, dental careers, child care, sports medicine, personal training, social work, psychology, and more. Students will learn about various options within each field, what each of these jobs entails, and the education and knowledge required to be successful. In addition, they will focus on basic job skills and information that would aid them in health care and other career paths.
Course Length: Semester
Credits: 0.5

Health Science I: The Whole Individual
Introduces the learner to health science disciplines as toxicology, clinical medicine, and biotechnology.
Course Length: Semester
Credits: 0.5
Required Materials:
- A video camera / recording equipment
Health Science II: Patient Care and Medical Services
Learn how to promote wellness, communicate with patients, and understand safety in the workplace. Become familiar with some of the more prominent areas in the field, such as emergency care, nursing, infection control, and pediatrics.

**Course Length:** Full Year  
**Credits:** 1.0

**Required Materials:**
- Computer with:
  - Internet access
  - Slideshow program (PowerPoint, Keynote, etc.)
  - Word Processing Program (Microsoft Word, etc.)
  - Digital camera or camera phone with photo and video/audio capabilities
  - Large piece of paper or poster board
  - Markers, pencils, and other drawing/writing implements
  - Drawing paper or magazines to cut up
  - Glue or tape
  - Scissors
  - A volunteer (friend, family member, neighbor, etc.)

Health Science Foundations†
Learners will acquire foundational knowledge required to pursue a career, in the healthcare industry and the education, training, and credentials needed to attain them. Basic medical terminology, principles of anatomy and physiology, and legal and ethical responsibilities are also discussed.

**Course Length:** Semester  
**Credits:** 0.5

**Required Materials:**
- Computer with word processing program like MS Word, Excel-type program, and slide show program like PowerPoint
- Computer with access to internet
- Brochure maker software (optional)
- Video Recording device: smart phone, digital camera with audio, computer camera, or any device that can record both video and sound.
- First aid kit and supplies:
  - Alcohol and cotton swabs or alcohol wipes
  - Syringe or object to mimic syringe (pencil)
  - Bandage materials: sterile gauze, tape, large bandages
  - Space blanket
  - Antiseptic cream/gel
  - Scissors
  - Cold pack
  - Surgical Gloves
  - Surgical Gown (or clothing that is similar)
  - Object like a piece of fruit to demonstrate asepsis
  - Clean towels or pieces of cloth
  - Thermometer
  - Bathroom scale
  - Yardstick or measuring tape
  - Timer or watch with timer or second hand
  - Friend or family member to act as your “patient”
  - Practice dummy (a large pillow or stuffed animal is a good substitute)
  - Automated External Defibrillator or a box with two strings attached; the strings will need adhesive bandages or tape on the ends
Health Science: Nursing
Explore communication and ethics, anatomy and physiology, and the practice of nursing. Learn how to build relationships with individuals, families, and communities and how to develop wellness strategies for your patients.

Course Length: Semester
Credits: 0.5

Required Materials:
- Computer with:
  - Internet connection
  - Access to a word-processing program
  - Access to a slideshow presentation program
  - Ability to do screen shots or use the Snipping Tool
  - Access to Dropbox
- Device with Photo- and Video-Recording Capabilities
- Poster-Board or Large Butcher Paper
- Toy Doll or Stuffed Animal for Demonstrations
- Watch, Digital Timer, or the Timer on a Cell Phone
- Markers, glue, pencils, pens, scissors
  
  Only necessary for those who choose to create handmade projects rather than digital when given the option; however, there is always a digital option for every lab/activity that involves creating a presentation.

Optional Materials:
There are ways to complete the labs and activities without these materials (as explained in individual labs and activities); however, if it is possible to obtain these materials, they will be helpful:
- Human Volunteer
- Scale to take a person’s weight
- Measuring Tape
- Thermometer to take a person’s temperature
- Blood Pressure Cuff
- Printer with Paper and Black and White Ink (and Preferably Colored Ink)
- Protective Clothing: Gown, Mask, and Gloves

Health Science: Public Health
Explore the role current and future technologies play worldwide as well as consider the ethics and governance of health on a global scale. Discover unique career opportunities, and fascinating real-life situations.

Course Length: Semester
Credits: 0.5
**Introduction to Nursing**
This two semester course introduces students to the field of nursing. In the first semester students will learn about the history and evolution of nursing, education and licensure requirements, career path options, and nursing responsibilities. Students will also focus on foundational information such as basic anatomy, physiology, medical terminology, pharmacology, first aid, and disease prevention. In semester two students will examine various nursing theories, as well as focus on the nursing process, including assessment, diagnosis, and treatment options. Students will also learn about professional and legal standards and ethics. Additional skills of communication, teaching, time and stress management, patient safety, crisis management will be included.

**Course Length:** Full Year  
**Credits:** 1.0

**Medical Terminology**
Explore the unique terms and abbreviations of the medical world, investigate the systems that make up the human body and learn how to become an effective member of the medical team.

**Course Length:** Semester  
**Credits:** 0.5

**Nutrition and Wellness**
Learn the essential skills needed to pursue a healthy, informed lifestyle by learning how to locate, buy, and prepare fresh delicious food will make you, and your body, feel amazing.

**Course Length:** Semester  
**Credits:** 0.5
HIGH SCHOOL ELECTIVE COURSES

HUMAN SERVICES
& EDUCATION

Cosmetology I: Cutting Edge Styles
Learn about beauty regimes related to hair, nails, skin, and spa treatments, and discover how to create your own business model quickly and efficiently while looking fabulous!
Course Length: Full Year
Credits: 1.0

Cosmetology II: The Business of Skin and Nail Care
Explore skin care and facials, learn how to give manicures and pedicures and how to apply artificial nails, and gain an understanding of different hair removal techniques.
Course Length: Full Year
Credits: 1.0
Prerequisites: Cosmetology I

Required Materials:
- A computer with:
  - Internet access
  - A word processing program and a slide-show program
- A friend or family member to be your model
- A camera with:
  - Sound—a cell phone camerais fine
  - Video recording capabilities
- Trash can
- Trolley for products and tools
- Disposable Latex or Nitrile Gloves

Basic Manicure & Pedicure Materials:
- A desk (technician table)
- Seating:
  - A technician chair
  - A client chair
  - Low to floor stool
  - Footrest or ottoman
- Tub large enough for feet
- Bowl
- Client Cushion or rolled towel
- Nail Brushes

Clean sheets and towels
Examples of work outfits – both appropriate and inappropriate
Five beauty products of any kind from your own bathroom (to research their ingredients)
Optional (for those doing labs/activities by hand):
- Large butcher paper or poster board
- Printer
- Markers, colored pencils, crayons

Nail Clippers
Nail Nippers
Toenail Clippers
Toenail Nippers
Nail Board
Wooden Pusher
Cotton balls or gauze
Polish Remover
Cuticle remover
Massage lotion or oil

Base Coat
Colored Nail Polish (at least 2 different colors)
Top Coat
Disinfection container
Disinfectant (or water to stand in for chemical)
Cleaning brush
**Nail Enhancement Materials:**
- Abrasive boards
- Buffer block
- Nail Dehydrator
- Nail Tip Adhesive
- Nail Tips
- Nail forms
- Tip Cutter
- Monomer/Polymer application brush
- Dappen dishes
- Nail primer
- Monomer liquid
- Polymer powder
- Adhesive-backed fabric
- Small piece of plastic
- Small scissors
- Tweezers
- Wrap Resin
- Wrap Resin Accelerator
- Cleansing solution
- Gel Brush
- Lint-free cleansing wipes
- Nail tips and resin
- Nail dehydrator
- UV or LED gel lamp
- UV or LED gel
- UV or LED gel polish
- UV or LED bonding gel or gel primer

**Facial Materials:**
- A facial table (alternative: have your client lie down on a bed or in a recliner)
- Magnifying lamp (or a flexible lamp and a magnifying glass)
- Headband, head covering, or towel with fastener
- Cotton pads
- Facial gown (alternative: a large shirt or apron)
- Paper and Pencil
- Bowls
- Antiseptic lotion
- Cleansers and Makeup Removers
- Exfoliant
- Masks
- Toner
- Massage cream or lotion
- Moisturizers and/or sun-protective lotion
- Gauze
- Mask brush
- Paper towels
- Spatulas
- Sponges
- Tissues
- Facial steamer (optional)

**Eyebrow Materials:**
- Roll of disposable paper
- Headband, head covering, or towel with fastener
- Cotton pads
- Eyebrow brush
- Wax heater
- Wax
- Wax remover
- Tweezers
- Fabric strips (if using soft wax)
- Soothing or antiseptic lotion
- Gentle cleanser and makeup remover
- Toner
- Spatulas or wooden applicators
- Eyebrow and lash tint or dye (if legal in your state)
Cosmetology III: Introduction to Hair Skills

Semester 1: Introduction to Hair Skills
Learn about hair types, face shapes, color theory and learn to perform a hair, scalp, and skin analysis. Examine color techniques with an emphasis on salon and chemical safety.

Semester 2: Waving, Coloring, and Advancing Hair Skills
Students will delve into the realm of hair styling and cutting techniques. Learn about wigs, extensions, and hairpieces, while developing knowledge about shampooing and conditioning. Manual curling and the use of chemicals to curl and straighten hair are highlighted in this course as well as safety when working with chemicals.

Course Length: Semester
Credits: 0.5 Each Semester
Prerequisites: Cosmetology II

Required Materials:
- Computer with internet capabilities, word processing program, slideshow presentation program
- Camera or phone with video recording capabilities
- Two friends or family member volunteers
- A sample release statement for client to sign
- Client chair
- Professional attire to wear in videos
- Cape for draping
- Ingredients to create a shampoo or conditioning treatment (will vary by student)
- Sink for washing and rinsing hair
- Towels
- Shampoo and conditioner
- Training mannequin head with hair
- Special effect hair coloring treatment
- Non-special effect hair color treatment
- Protective gloves

Makeup Application Materials:
- Makeup Cape
- Headband or hair clip
- Cotton pads, puffs, and swabs
- Sponges, Spatulas, and tissues
- Makeup Palette
- Disposable brushes for lip and mascara
- Eyelash curler and comb
- Assorted makeup brushes (for concealer, eye shadow, eyeliner, powder, brows, blush)
- Pencil Sharpener
- Cleansers
- Concealers
- Eye shadows
- Eyeliner
- Face powders
- Foundations
- Lip Colors

Resume & Portfolio Materials:
- Copies of your diplomas, certificates, and awards
- Photos from practice services you have performed
- Letters of reference or teacher recommendations

Makeup Application Materials:
- Lip Liners
- Mascara
- Moisturizers
- Sunscreen
- Toner

HIGH SCHOOL ELECTIVE COURSES

HUMAN SERVICES & EDUCATION
Early Childhood Education
Examine career options in early childhood education and learn about licensing and state requirements for childcare workers. Explore how to create safe, enriching environments for children and investigate how to encourage the development and well being of children.
Course Length: Semester
Credits: 0.5

Human and Social Services I
Explore the process of helping, body, mind, and family wellness, and how you can become a caring social service professional.
Course Length: Full Year
Credits: 1.0

Principles of Public Service: To Serve and Protect
Learn about many different areas of public service including education, civil engineering, and social services. You’ll also look at the requirements for public service in general as well as the specific skills needed to be successful in each area of public service.
Course Length: Full Year
Credits: 1.0

Real World Parenting
Learn how being a parent is much more than simply feeding, bathing, and protecting a child. Learn how to create positive environment that is nurturing, fosters education, and how every parent is a role model to their child.
Course Length: Semester
Credits: 0.5
3D Modeling
Gain a deeper understanding of graphic design and illustration as you use 3D animation software to create virtual three-dimensional design projects. Hone in on your drawing, photography, and 3D construction techniques and develop the skills needed to navigate within a 3D digital modeling workspace.

Course Length: Full Year
Credits: 1.0

Required Materials:
This course was created using Blender version 2.79 and requires a computer running Windows Vista and above, Mac OSX 10.6 and above, or Linux.

Minimum hardware requirements:
• 32-bit dual core 2Ghz CPU with SSE2 support
• 2 GB RAM
• 24 bits 1280×768 display
• Mouse or trackpad
• OpenGL 2.1 compatible graphics with 512 MB RAM

Recommended hardware requirements:
• 64-bit quad core CPU
• 8 GB RAM
• Full HD display with 24 bit color
• Three button mouse
• OpenGL 3.2 compatible graphics with 2 GB RAM

For Unit 1 Activity:
• Drawing paper or online drawing tool
• Protractor
• Pens and pencils
• Ruler
• Objects or graphics representing different polygons

Basic Web Design
In this course, students will learn how to design a beautiful and functional website. Students will learn how to take their design and translate it into a live website using Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS) programing languages. HTML5 and CSS3 will be the standard versions used in the class. Students will understand design components of websites, including the use of color, layout and when to use different techniques, typography rules, and the importance of imagery. At the conclusion of the course, students will present a website to the class. Upon completion of this course, each student will have hands-on experience creating a fully functioning website. Students do not need to have a previous technical background with HTML or CSS prior to taking this course.

Course Length: Semester
Credits: 0.5
HIGH SCHOOL ELECTIVE COURSES

PROGRAMMING, DESIGN & SOFTWARE ENGINEERING

Coding

Semester 1: Introduction to Programming
Explore the role technology plays in our lives as well as study the fundamentals of computer science, review hardware and software, and learn how the internet functions. Discover how to create and build your own website using HTML and CSS and learn basic and complex commands and sequences as you become familiar with programming languages like JavaScript and Python Programming. This course also covers data collection methods, access rights, protocols, and security.

Required Materials:
- Students will need to create a free account for the following sites:
  - https://www.pythonanywhere.com
  - trello.com

Semester 2: Programming
Continue to develop an understanding of programming languages and expand on website development. Learn the difference between web development and web application development as well as further explore Advanced Python, HTML, and JavaScript. Examine software engineering concepts, learn more about security, privacy, and ethics in technology, and explore the wide variety of careers in computing.

Required Materials:
- Students will need to create a free account for the following sites:
  - https://www.pythonanywhere.com/
  - https://trinket.io/

Course Length: Full Year
Credits: 0.5 Each Semester

Foundations of Game Design
Learn about the principles of game design through the stages of development, iterative process, critiques and game development tools.

Course Length: Semester
Credits: 0.5
Game Design
Semester 1: Introduction
Learn about video game software and hardware, various gaming platforms, necessary technical skills, troubleshooting and internet safety techniques, and the history of gaming and create your very own plan for a 2D video game!

Required Materials:
- Computer
- Internet access
- Slide show program
- Word processing program
- Blender 2.79b
- Gimp 2.10.10 (Unit 6)
- Unity LTS Release 2017.4.0f1
- OS: Windows 7 SP1+, 8, 10, 64-bit versions only; Mac OS X 10.9+. Server versions of Windows & OS X are not tested.
- GPU: Graphics card with DX10 (shader model 4.0) capabilities.

Optional Materials:
- Timing device (smartphone, stopwatch, or kitchen timer)
- Photo and video equipment
- May be a digital camera, a phone with a camera or a computer camera
- Several (10-20) pieces of blank paper
- Pencil and/or pen

Semester 2: Building a Game
Learn the skills needed to conceptualize, design, and fully create your very own video game. Explore various video game software and hardware, sharpen your coding skills, learn about game storylines, player progression, and algorithmic decision making. Learn to analyze player goals, actions, rewards, and challenges, among many other game play components.

Required Materials:
Software
- Unity, same as previous course (Unity LTS Release 2017.4.0f1). Used throughout the course.
- OS: Windows 7 SP1+, 8, 10, 64-bit versions only; Mac OS X 10.9+ Server versions of Windows and OS X are not tested
- GPU: Graphics card with DX10 (shader model 4.0) capabilities

Physical devices
- Video recording device with computer connectivity (Activity Unit 7)
- Color Printer (Unit 8)

Course Length: Full Year
Credits: 0.5 Each Semester
Graphic Design
Graphic Design is an introduction to 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. In this course, the student explores the basic foundations of design through a series of visual projects that explore the principles and elements of design. Students will work both with analog and digital media as they explore two-dimensional and three-dimensional design along with color theory. This course will help develop and explore a student’s ability to communicate visually.
Course Length: Semester
Credits: 0.5

Introduction to Java Programming
Java is one of the most widely used computer languages in the world. This course will teach students Java by having them complete 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. This is course is meant to give students lots of experience in Java by creating multiple stand alone programs. This course assumes no coding experience with Java programming and includes self graded quizzes and tests.
Course Length: Semester
Credits: 0.5

JavaScript
In this course, students will learn how to start programming with JavaScript. Students will learn the basics of JavaScript including testing, functions, objects, arrays, loops, conditional code, operators and syntax basics. Students will learn timing and animations, and how to debug. The class will conclude with a robust project that incorporates everything they learned in the semester.
Course Length: Semester
Credits: 0.5
Prerequisites: Students should have a working knowledge of HTML and CSS prior to taking this course.
Biotechnology

Semester 1: Introduction
Learn the basics of biotechnology and evolutionary theory, explore the various ways we store and preserve food, and discover the process of fermentation and microbiology. This course will also cover the importance of breeding plants and hybridization and how early breeding programs led to the study of genetics and an understanding of the function of genes. Finally, you’ll delve into early industrial discoveries and explore the developments in biotechnology during the industrial revolution.

Semester 2: Unlocking Nature’s Secrets
Learn how this field seeks to cure such deadly diseases as cancer and malaria, develop innovative medicine, and effectively feed the world through improved agricultural systems. Learn about some of the challenges biotechnology faces today, such as the growth of antibiotic resistant bacteria and questions about the safety of commercially produced genetically modified organisms (GMOs).

Course Length: Full Year
Credits: 0.5 Each Semester

Concepts of Engineering and Technology
This course explores the different branches of engineering and how problem-solving, sketching, collaboration, and experimentation can change the very fiber of our human lives.

Course Length: Full Year
Credits: 1.0

Great Minds in Science: Ideas for a New Generation
Similar to such famous minds from history as Edison, Einstein, Curie, and Newton, the scientists of today are finding ways to revolutionize our lives and the world. This course takes an in-depth look at the extraordinary work of these individuals and demonstrates how their ideas may very well shape the world of tomorrow.

Course Length: Semester
Credits: 0.5

Marine Science
Through the use of scientific inquiry, research, measurement, and problem solving, you will conduct various scientific procedures that will lead to an increased level of knowledge about Marine Science.

Course Length: Full Year
Credits: 1.0
Space Exploration
In 1961, Yuri Gagarin became the first human to go to space. In 1969, Neil Armstrong became the first human to step on the moon. This comprehensive course will examine the history and future of space travel. Find out how we have put people in space in the past, and what it will take for us to reach new frontiers, including Mars and beyond.
Course Length: Semester
Credits: 0.5

Veterinary Science: The Care of Animals
Learn how to care for domestic, farm, and wild animals and diagnose their common diseases and ailments. Examine how different veterinary treatments are used and developed to improve the lives of animals and, as a result, the lives of those people who treasure them.
Course Length: Semester
Credits: 0.5

World of STEAM
Each aspect of the arts relies on science and technology. In The World of STEAM, students will learn why the eye sees color, how a dancer uses gravity and what makes a sound wave travel. The arts, science and technology are intertwined, now more than ever. Understanding the science behind the art will elevate students to a new level of creativity.
Course Length: Semester
Credits: 0.5
Career Planning
The Career Planning course guides students through the essential elements of the career planning process and the development of a defined career plan. Students will consider the many factors that impact career success and satisfaction. Using a process of investigation, research, and self-discovery, students will acquire the understandings critical to the career planning process. Upon completion of the course, students will have created a practical and comprehensive college or career transition portfolio that reflects their skills and abilities, as well as their interests, values, and goals.
Course Length: Semester
Credits: 0.5

Character Education
This course 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. Research shows that people who practice these skills have greater academic achievement as students and experience more success and satisfaction as adults.
Course Length: Semester
Credits: 0.5

Dave Ramsey’s Foundations in Entrepreneurship®
In this foundation course offered by Ramsey Education, students learn how to start and run their own businesses. Learn essential business topics and develop an idea through project-based learning. Explore traits of entrepreneurs and leaders, economic and financial concepts and marketing/business management.
Course Length: Semester
Credits: 0.25

Dave Ramsey’s Foundations in Personal Finance®
In this course offered by Ramsey Education, learn the basic principles of economics and best practices for managing finances. Learn how to save money, create budgets, develop long term savings plans and make responsible choices about debt, insurance, investing and retirement.
Course Length: Semester
Credits: 0.5
**Driver’s Ed**
This is a 30 hour course with Calcvideo and tests that satisfies the Colorado state requirement for a learner’s permit. Students must be at least 14.5 to take this course. Students in Colorado will be eligible to take their permit test upon successful completion, and may receive discounts for behind the wheel driving courses in their area. Students in other states may use course to assist with preparation of their written test.

**Course Length:** Semester  
**Credits:** 0.25  
**Prerequisites:** Students must be at least 14.5 years of age.

**Learning in a Digital World**
Learn about real-world issues and how to solve real-world problems through interactive and hands-on assignments. Discover what it means to be a responsible digital citizen, expand your digital literacy, and become a successful online student. Consider the best ways to find, create, and share information, learn to maximize information and communication technologies, and explore digital content creation, from emails and blogs to social media, videos, and podcasts.

**Course Length:** Semester  
**Credits:** 0.5

**Life Skills: Navigating Adulthood**
This course will encourage you to learn more about yourself and help you to prepare for the future. You will explore goal setting, decision making, and surviving college and career.

**Course Length:** Semester  
**Credits:** 0.5

**Military Careers**
The military offers far more career diversity than most people imagine, and Military Careers will provide the information you need to gain a broader understanding of how to find the right fit. You will learn about the five military branches—Air Force, Army, Coast Guard, Marines Corps, and Navy—and examine which jobs you might like to pursue.

**Course Length:** Semester  
**Credits:** 0.5

**Personal and Family Finance**
Learn how to spend and save your money wisely, invest in safe opportunities and the key financial concepts around taxes, credit, and money management.

**Course Length:** Semester  
**Credits:** 0.5
**SAT Prep**
Self-paced study course that helps students prepare for the SAT without cramming. The course utilizes videos, reading passages and practice questions and quizzes to help students make sense of SAT level questions. Full length practice tests will help students learn how to identify weaknesses in specific skill areas and then practice for improvement. In addition to online work, students will have the opportunity to participate in synchronous lessons with a teacher. Pass/Fail grading, student must spend at least 60 hours in the course.

**Course Length:** Semester  
**Credits:** 0.5

**Survey of SAT Prep**
Self-paced study course that helps students prepare for the SAT without cramming. The course utilizes videos, reading passages and practice questions and quizzes to help students make sense of SAT level questions. Full length practice tests will help students learn how to identify weaknesses in specific skill areas and then practice for improvement. In addition to online work, students will have the opportunity to participate in synchronous lessons with a teacher. Pass/Fail grading, student must spend at least 30 hours in the course.

**Course Length:** Semester  
**Credits:** 0.25

**Study Skills and Strategies**
The Study Skills and Strategies course equips students with skills and understandings critical to effective learning. Using a unique approach to the traditional topic of study skills, this course weaves understanding regarding the role of the brain in learning into the instruction of discrete learning skills and strategies. Moving beyond a list of good tips and ideas, the Study Skills and Strategies course will challenge students to develop intentional approaches to learning. They will be required to make connections between the strategies and skills they learn in this course and the implementation of those strategies and skills in their other coursework. Upon completion of the course, students will have learned a variety of specific learning skills and strategies, gained greater understanding of their own learning preferences, and become prepared to develop and implement specific learning and study plans for any academic course or other learning needs.

**Course Length:** Semester  
**Credits:** 0.5
African American History
Learn about the political, economic, social, religious, and cultural factors that have influenced African American life, beginning with the slave trade on up to the modern Civil Rights movement and explore how the African American story still influences current events today.
Course Length: Full Year
Credits: 1.0

Anthropology I: Uncovering Human Mysteries
This course offers an anthropologic lens to observe our movement from cave dwellers to modern human. Learn how we forged our way and developed all of the things that make us human, such as our cultures, languages, and religions.
Course Length: Semester
Credits: 0.5

Anthropology II: More Human Mysteries Uncovered
Begin to visualize new ideas about how ancient cultures flourished through examining their views on life, death, art, and survival. In looking back and learning about cultures through the ages, we are better equipped to understand the world around us today.
Course Length: Semester
Credits: 0.5

Archaeology: Detectives of the Past
Explores the various techniques, methods, and theories of this field and illustrates how archaeologists conduct their studies.
Course Length: Semester
Credits: 0.5

Human Geography: Our Global Identity
Explore the diverse ways that different people have physically influenced the world around them and how they, in turn, are changed by their surroundings. In this course, you’ll gain tremendous insight into human geography and begin to better understand the important relationship between humans and their environments.
Course Length: Semester
Credits: 0.5
Peer Counseling
Peer Counseling will show you the way to provide support, encouragement, and resource information. Learn how to observe others as a Peer Counselor as you carefully listen and offer constructive, empathic communication while enhancing your own communication skills.
Course Length: Semester
Credits: 0.5

Personal Psychology I: The Road to Self Discovery
Trace the development of personality and behavior from infancy through adulthood. Learn about perception and consciousness and better understand the role of sensation.
Course Length: Semester
Credits: 0.5

Personal Psychology II: Living in a Complex World
Explore how we learn and remember and investigate some common mental illnesses and their treatments. Examine the impact of stress on our emotions and mental health and learn about what influences personality and emotions.
Course Length: Semester
Credits: 0.5
Prerequisites: Personal Psychology I

Philosophy: The Big Picture
Philosophers of the Western world are among the world’s most brilliant and influential thinkers and originated the fundamental ideas of Western civilization. In this course you will better understand yourself and the world around you—from atoms to outer space and everything in between.
Course Length: Semester
Credits: 0.5

Social Problems I: A World in Crisis
Explore some of the biggest challenges facing our world today and prepare to tackle them head-on. Learn what led to these social problems, what effects they have on our lives and societies, and what possible solutions exist for solving them.
Course Length: Semester
Credits: 0.5
Social Problems II: Crisis, Conflicts and Challenges
Explore more of the challenges we face and learn what we can do to reduce the effects of these conflicts and problems. From drug abuse to terrorists to the changing nature of communities in our digital world, we can better face and solve these problems when we have a deeper understanding of their causes and influences on our lives.
Course Length: Semester
Credits: 0.5
Prerequisites: Social Problems I

Sociology I: The Study of Human Relationships
Explores culture, group behavior, and societal institutions and how they affect human behavior. You’ll learn how social beliefs form and how this shapes our lives.
Course Length: Semester
Credits: 0.5

Sociology II: Your Social Life
Discover how social institutions like families, religion, government, and education shape our world and how collective behavior and social movements can create change.
Course Length: Semester
Credits: 0.5
Prerequisites: Sociology I
Women’s Studies: A Personal Journey Through Film
This course focuses on the experience of women. It’s appropriate for anyone who wants to learn to critically examine films while learning about the history of the women’s movement and how gender, race, and social class influence us.
Course Length: Semester
Credits: 0.5
Required Materials:
You will be required to have access to the standard editions of the films used in this course:
- Fried Green Tomatoes (1991)
- Far From Heaven (2002)
- Snow White and the Seven Dwarves (Disney Animation – 1937)
- Beauty and the Beast (Disney Animation – 1991)
- The Help (2011)
- A League of Their Own (1992)
If you do not already have access to these movies, you may consider other sources such as your local library.

World Religions: Exploring Diversity
Explores the various characteristics of faith and introduce the fundamentals of the major religions, including Judaism, Islam, Christianity, Buddhism, Confucianism, Hinduism, Shintoism, and Taoism. You’ll trace how these powerful faiths have influenced cultures over thousands of years and helped to shape the face of humanity.
Course Length: Semester
Credits: 0.5
Contemporary Novels
For this course, students will read a set of novels and novellas that were written during the twentieth century and reflect themes common to contemporary literature, such as the ability of the human spirit to rise above seemingly-impossible circumstances. Through creative projects and writing assignments, students will identify and analyze each novel’s themes and also compare and contrast the novels’ treatment of common themes. Please note that, like most contemporary literature, the novels assigned for this course contain realistic situations and language. In addition to the novels listed, each student will read another contemporary novel of his or her choosing that the instructor must approve.
Course Length: Semester
Credits: 0.5
Prerequisites: Language Arts 9

Creative Writing: Unleashing the Core of Your Imagination
Students will discover how to build character story arcs, write dialogue, and use point of view to strengthen their narratives. Examine how revisions, drafts, and critiques bolster the writing process.
Course Length: Full Year
Credits: 1.0

Gothic Literature: Monster Stories
This course 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.
Course Length: Semester
Credits: 0.5

Mythology and Folklore: Legendary Tales
Review mythology and different types of folklore and explore the universality and social significance of myths and folklore and learn how these tales continue to shape society today.
Course Length: Semester
Credits: 0.5
**Reading and Writing For Purpose**

Introduces useful, real-world information by having students learn to read legal, insurance, employment, and vehicle related documents. Furthermore, students will explore media bias, trends in journalism, word structures, research strategies, and learn how to critically read and identify good sources of information.

**Course Length:** Semester  
**Credits:** 0.5

**Required Materials:**
- Computer with internet access
- Slideshow presentation program (PowerPoint, Keynote, etc.)
- Word processing program (Microsoft Word, Text Editor, etc.)
- Camera with photo and audio/video recording capabilities

For students that will be editing and revising their work on paper and creating some of the assigned illustrations by hand (there is always the option to create these digitally), they will need:
- Printer
- Highlighters
- Paper
- Crayons/Markers/Colored Pencils
- Pencils/Pens

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

In this course, you will see first-hand how classic literature can become modern film and bring the fantasy alive for a whole new generation of believers.

**Course Length:** Semester  
**Credits:** 0.5

**Required Materials:**
You will be required to have access to the 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
- The Lord of the Rings: The Return of the King

If you do not already have access to these movies, you may consider other sources such as your local library.  
**Note:** Timestamps referenced throughout the course apply to standard editions of the applicable film and may not align with any extended/modified versions.
Fundamentals of Accounting
In this course, students examine basic accounting concepts and explore how accounting information assists business leaders in making financial decisions that increase profitability and contribute to competitive advantage. There is specific emphasis on the analysis of financial statements in the business decision-making process, budgeting, and factors businesses must consider when determining appropriate pricing of goods and services.

Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits
Prerequisite: College Mathematics or Applications of College Algebra

Introduction to Hospitality
This course introduces the hospitality industry and essential customer service and communication skills that ensure efficient delivery of quality services. Students are taught the skills necessary to effectively communicate, meet the service quality expectations of a diverse clientele, and appropriately represent their organizations.

Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits

Introduction to Sports Management
This course is an overview of the business of sports, including career opportunities, as well as a study of the value of professional management to sports organizations.

Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits
Elements of Intercultural Communication
This writing intensive course focuses on improving communication among people with different racial, ethnic, cultural, and minority backgrounds. Students explore verbal and nonverbal communication behaviors in a variety of communication media and contexts. Communication styles, rituals, and traditions are explored through an examination of mass media, family structure, religion, politics, education, social life, art, and literature.
Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits

Fundamentals of Communication
This course is an introduction to the field of communication with emphasis on the history of communication study, relevant communication theories guiding current research, the contexts in which communication occurs, and issues faced by students of communication. The course focuses on introducing students to various communication models as well as theories and skills in interpersonal communication, small group communication, mass communication, intercultural communication, and public communication.
Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits

Small Group Communication
This course examines the principles and processes of small groups and the development of skills for participation and leadership in small group settings, as well as practice in problem solving, decision making, critical reasoning, and information sharing.
Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits
Computer Programming I
This course introduces the fundamental concepts and syntax of the Java programming language. The course focuses on object-oriented techniques in Java with an emphasis on problem solving and fundamental algorithms.

Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits

Computer Programming II
This course focuses on software development using the Java programming language. The course exposes the relationships between machine architecture and data organization through Java-based projects, including algorithmic machines.

Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits
Prerequisites: Computer Programming I

Introduction to Computer Science and Information Technology
This course provides a foundation for programming and problem solving using computer programming, as well as an introduction to the academic discipline of IT. Topics include variables, expressions, functions, control structures, and pervasive IT themes: IT history, organizational issues, and relationship of IT to other computing disciplines. The course prepares students for advanced concepts and techniques in programming and information technology, including object-oriented design, data structures, computer systems, and networks. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on writing code that implements concepts discussed in lecture and on gaining initial exposure to common operating systems, enterprise architectures, and tools commonly used by IT professionals.

Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits
Prerequisites: Applications of College Algebra

Introduction to Computer Technology
This course provides the foundation of core knowledge within the field of information technology. Topics include technology-centric organizations, the type and role of fundamental information technology systems, data management to include privacy and security, e-business and m-business, hardware, software, and computer networks.

Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits
Criminal Behavior and Victimology
This course provides an examination of the basic theories of criminology including victimology. The course exposes students to the motivators of criminal behavior to better understand crime and those who commit crime.

**Course Length:** Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.

**Credits:** 1.0 High School Credit and 4.0 College Credits

Introduction to Justice Studies
This course provides an introduction to the basic components of the criminal justice system in the United States today: corrections, courts, and law enforcement.

**Course Length:** Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.

**Credits:** 1.0 High School Credit and 4.0 College Credits
Digital Video Production I
This course introduces students to the technical and aesthetic aspects of small format digital production as well as the basic principles of motion picture production. Students learn the language of film/digital video and how its manipulation can express one’s individual message or purpose.
Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits

Introduction to Cinema: History & Aesthetics
This course covers multiple eras and movements throughout the age of film.
Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits
**English Composition I**
This is a writing-intensive course in writing academic prose, including various types of essays, arguments, and constructions.

**Course Length:** Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.

**Credits:** 1.0 High School Credit and 4.0 College Credits

**English Composition II**
This course explores various types of research writing, with a focus on constructing essays, arguments, and research reports based on primary and secondary sources. This is a writing intensive course.

**Course Length:** Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.

**Credits:** 1.0 High School Credit and 4.0 College Credits

**Prerequisites:** English Composition I

**Introduction to Young Adult Literature**
This course delves into critical approaches to literature that are of interest to young adult readers. Themes such as identity, culture, ethnicity, race, values, gender, and censorship are among those explored through close readings and textual analysis of popular and historical fiction, nonfiction, graphic novels, and dystopian literature.

**Course Length:** Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.

**Credits:** 1.0 High School Credit and 4.0 College Credits

**Prerequisites:** English Composition I
Applications of College Algebra
This course is designed to prepare learners to integrate fundamental mathematical concepts with the critical and quantitative thinking needed to solve workplace-related problems. The course is founded upon a functional and technological approach to algebra. Topics include functions, algebraic and exponential equations, systems, matrices, probability, and statistics. Emphasis is placed on developing students’ understanding of mathematical representation and logical reasoning to solve real-world problems.

Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits
Prerequisites: Grade of C or better in Basics of Algebra

Basics of Algebra
This course is designed to build students’ understanding of, and skill in, basic algebraic practices and procedures. Students learn to manipulate mathematical operations involving real and complex numbers. Topics include solving and graphing equations and inequalities, solving systems of equations, operations on functions, use of real and complex number systems, solving rational functions, and solving exponential and logarithmic functions. Emphasis will be placed on algebraic processes and building a framework for future courses.

Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits

Calculus and Analytic Geometry I
This course provides a rigorous treatment of the concepts and methods of elementary calculus and its application to real-world problems. Topics include a brief review of linear, exponential, logarithmic, trigonometric, and inverse functions; understanding and calculating limits, continuity, and derivatives as rates of change; differentiation rules including derivatives of polynomials, exponentials, trigonometric, and logarithmic functions; product and quotient rules, the chain rule, and implicit differentiation; related rates, curve sketching, maximum and minimum problems, mean value theorem, linear approximation, indeterminate forms, and L'Hospital's rule; and applied optimization problems, antiderivatives, and approximating areas under the curve.

Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits
Prerequisites: Grade of C or better in College Algebra and Trigonometry
DUAL CREDIT COURSE DESCRIPTIONS

Calculus and Analytic Geometry II
This course provides a rigorous treatment of the concepts, methods, and applications of integral calculus and is the second course in a three-course sequence. Topics include definite integrals, fundamental theorem of calculus, and integration rules; arc length, solids of revolution, and physical applications; techniques of integration including improper integrals and an introduction to differential equations; polar coordinates, parametric equations, infinite sequences, and series; power series and conic sections; and vector arithmetic, dot product, and projections.
Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits
Prerequisites: Grade of C or better in Calculus and Analytic Geometry I

College Algebra and Trigonometry
This course is a unified study of fundamental algebra and trigonometry concepts that provide the necessary background for the study of calculus. Topics include linear equations and inequalities in one and two variables; scatter diagrams and curve fitting; polynomial, rational, exponential, logarithmic, and trigonometric functions, their graphs, and their inverse functions; and systems of equations and inequalities. There is an emphasis on developing both a fundamental understanding of the concepts involved as well as their application to real-world problem solving.
Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits
Prerequisites: Grade of C or better in Applications of College Algebra

College Mathematics
The course covers mathematics that matter in modern society. Key areas of focus include financial literacy, numerically-based decision making, growth, scale, and numerical applications. The course applies basic college-level mathematics to real-life problems and is appropriate for students whose majors do not require college algebra or higher.
Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits

Probability and Statistics
This course provides an introduction to the study of basic probability, descriptive and inferential statistics, and decision making. Emphasis is placed on measures of central tendency and dispersion, correlation, regression, discrete and continuous probability distributions, quality control population parameter estimation, and hypothesis testing.
Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits
Prerequisites: Grade of C or better in College Mathematics or Applications of College Algebra
Environmental Science
This course examines the risks and the environmental impact of human behavior and population growth on natural resources. Emphasis is placed on a holistic approach to environmental science using hands-on exercises, environmental surveys, and class discussions to reinforce scientific principles.

Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits
Personal Finance
This course provides students with skills to make rational, personal finance decisions. There is an emphasis on money management and the responsible use of credit. Strategies for wealth building and retirement planning are also introduced.

Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.

Credits: 1.0 High School Credit and 4.0 College Credits
21st Century Skills: Critical Thinking and Problem Solving
This course gives students an introduction to skills of critical thinking and decision making. It provides students opportunities to evaluate the influence and value of these skills in their personal, academic, and professional lives. Emphasis is placed on perception, emotion, fallacious reasoning, and communication.
Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits

American Government and Politics
This course is an introduction to American government and politics. It covers the constitutional foundations and governing institutions of the federal government. Throughout the course, students address common political themes, such as the nature and scope of governance, democracy, citizenship, and patterns of political behavior.
Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits

Child and Early Adolescent Development and Psychology
Teacher candidates survey how children and early adolescents grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional, and physical areas while understanding the implications for designing and implementing developmentally appropriate and challenging learning experiences. This survey of the seminal concepts, principles, theories, and research related to development of children and young adolescents allows teacher candidates to build foundational knowledge for constructing learning opportunities that support individual student’s development, acquisition of knowledge, and motivation.
No practicum/field experience hours. Fingerprint clearance not required.
Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits

Foundations of Addiction and Substance Use Disorders
This course provides foundational knowledge regarding addiction and substance use disorders. Topics studied include biopsychosocial dynamics; stages, processes, and impact of addiction and substance use; and the role of the addiction professional in prevention, intervention, relapse prevention, and aftercare. In addition, the course provides overviews of the substance abuse counselor’s code of ethics, HIPAA, and legal issues involved in counseling.
Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits
**General Psychology**
This foundation course in the science of behavior includes an overview of the history of psychology, the brain, motivation, emotion, sensory functions, perception, intelligence, gender and sexuality, social psychology, human development, learning psychopathology, and therapy.

**Course Length:** Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.

**Credits:** 1.0 High School Credit and 4.0 College Credits

**Health Care Roles and Integration of Patient Care**
This course is an introduction to the health care system and the structure, roles, and responsibilities of medical and allied health care professionals. Focus is placed on the teamwork necessary to effectively provide the highest quality patient care.

**Course Length:** Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.

**Credits:** 1.0 High School Credit and 4.0 College Credits

**Health Care Systems and Transcultural Health Care**
This course introduces the student to organizational dynamics and the complex structures of the U.S. health care system. Students consider social, historical, and political influences that have shaped the modern health system and examine the mechanisms that enable access, delivery, and financing of health services. This course also considers the ever-growing global perspective of health care as students explore the health perspectives of varied racial, ethnic, religious, and socioeconomic groups.

**Course Length:** Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.

**Credits:** 1.0 High School Credit and 4.0 College Credits

**Introduction to Comparative Government and International Politics**
This course compares and contrasts various systems of government in Western and non-Western countries, and explores political and diplomatic processes and how they affect international relations, nations, and localities.

**Course Length:** Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.

**Credits:** 1.0 High School Credit and 4.0 College Credits

**Introduction to Counseling Theories**
This course provides foundational knowledge in theoretical approaches to counseling. Theoretical models studied include psychodynamic, existential, Gestalt, person-centered, cognitive and behavioral therapy, family systems, and narrative- and solution-focused therapies.

**Course Length:** Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.

**Credits:** 1.0 High School Credit and 4.0 College Credits
Introduction to Philosophy and Ethics
This course is an introduction to the discipline of philosophy through a study of representative philosophical problems. Students are introduced to analytic tools that enable them to practice critical thinking, evaluate knowledge claims, and establish a rationale and justification for other academic disciplines. Topics to be considered include logic, epistemology, metaphysics, and ethics.
Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits

Principles of Sociology
This course presents a survey of the concepts, theories, and methods used by sociologists to describe and explain the effects of social structure on human behavior. It emphasizes the understanding and use of the sociological perspective in everyday life.
Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits

Social Problems
This course provides a survey of the various issues and problems faced by contemporary American society, including crime, drug abuse, sexual variance, poverty, overpopulation, and family relations. Emphasis is placed upon how these problems arise from and are perpetuated by modern social structure.
Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits

U.S. History Themes
This course provides an overview of the principal political, economic, and cultural themes and constitutional developments that shaped the United States from the Colonial period into the 20th Century.
Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits
World History Themes
This course surveys global civilizations from Africa and the Americas to Eurasia as an overview of the principal cultural, political, and economic themes that shaped world civilization.
Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits

World Religions
This course is a study of the major contemporary religions of the world including Abrahamic religions, Eastern religions, and other religions. The course covers religious texts, historical background, and current beliefs and practices. Emphasis is given to the ideological foundations of a Christian worldview, a comparison of worldviews, and the application of worldviews within a global society.
Course Length: Courses are concentrated into 7 weeks with 10-15 hours of coursework per week.
Credits: 1.0 High School Credit and 4.0 College Credits