

BANGOR PUBLIC SCHOOLS

2022-2023

K-12TH GRADE COURSE CATALOG

**MISSION: PROVIDING EDUCATIONAL EXCELLENCE AS A PATHWAY TO
SUCCESS!**

**VISION: CHALLENGING/ENGAGING EACH STUDENT TO PURSUE THEIR
DREAMS**

CORE VALUES

SAFETY

- *EACH STUDENT LEARNS IN A SAFE AND POSITIVE CULTURE*

VALUE

- *EACH STUDENT IS VALUED AS A UNIQUE PERSON FULL OF POTENTIAL*

INNOVATION

- *EACH STUDENT IS ENGAGED IN INNOVATIVE LEARNING ENVIRONMENTS*

PREPARATION

- *EACH STUDENT IS PREPARED FOR THE NEXT LEVELS OF MATURITY AND
SUCCESS*

GROWTH

- *EACH STUDENT GROWS TO BE A POSITIVE IMPACT IN OUR SCHOOL DISTRICT,
COMMUNITY AND WORLD*

BANGOR VIKINGS

**** All courses listed in the Bangor Public Schools Course Catalog may be adapted
for delivery in a virtual format.**

TABLE OF CONTENTS

SOUTH WALNUT ELEMENTARYP. 3
MIDDLE SCHOOL CORE (MATH, SCIENCE, SOCIAL STUDIES & ENGLISH LANGUAGE ARTS).....P. 14

BANGOR HIGH SCHOOL

HIGH SCHOOL MME/GRADUATION REQUIREMENTS.....P. 23
HIGH SCHOOL COURSE DESCRIPTION GUIDE.....P. 25
HIGH SCHOOL ENGLISH LANGUAGE ARTS.....P. 25
HIGH SCHOOL MATH.....P. 29
HIGH SCHOOL PE/HEALTH.....P.32
HIGH SCHOOL SCIENCE.....P. 34
HIGH SCHOOL SOCIAL STUDIES.....P. 39
HIGH SCHOOL VISUAL, PERFORMING & APPLIED ARTS.....P. 46
HIGH SCHOOL WORLD LANGUAGES.....P. 51
HIGH SCHOOL GENERAL ELECTIVES.....P. 54

BANGOR CAREER ACADEMY

BANGOR CAREER ACADEMY OFFERINGS

9-12 ENGLISH.....P. 60
9-12 MATH.....P. 63
9-12 PHYSICAL EDUCATION.....P.65
9-12 SCIENCE.....P. 66
9-12 SOCIAL STUDIES.....P. 68
9-12 VISUAL, PERFORMING, APPLIED ARTS ELECTIVES.....P. 71
9-12 WORLD LANGUAGE.....P. 72
9-12 ELECTIVES.....P. 73
6-8 ENGLISH.....P. 77
6-8 MATH.....P. 78
6-8 SCIENCE.....P. 79

6-8 SOCIAL STUDIES.....	P. 80
6-8 ELECTIVES.....	P. 81
<u>KINDERGARTEN COURSES.....</u>	P. 86
FIRST GRADE COURSES	P. 88
SECOND GRADE COURSES.....	P. 91
THIRD GRADE COURSES.....	P.93
FOURTH GRADE COURSES.....	P. 95
FIFTH GRADE COURSES.....	P. 99

South Walnut Elementary
Course Offerings – Grades K-4

Your child's social, intellectual, and physical achievements grow from a diverse set of skills and experiences. Using real-world experiences and developmentally appropriate activities, classrooms at South Walnut Elementary implement a rigorous curriculum. These are our grade level course offerings.

Kindergarten

Reading

Reading Street Series

Reading Street teaches children to nurture the love of Reading, builds a foundation for Reading, helps to grow student capacity and inspires their confidence in the best skills to meet each child's needs. Students will name the upper and lower case letters, produce the sound for each consonant letter, produce sounds for each vowel, blend a word, segment a word, read consonant vowel consonant (CVC) words, retell a story with three sequential details and read emergent reader text. High frequency words, recognize and produce rhyming words.

Writing

Writing City

Writing City is a K-5 writing and grammar curriculum that seamlessly aligns with national and state standards and supports highly-respected best practices. Our evidence-based program leads students to success through engaging and effective lessons. With Writing City, students as early as kindergarten build foundational skills that help them grow into confident and competent writers. Students will learn to form upper and lower case letters, write a complete sentence, write or draw a picture to tell a story, add "s" to a noun when speaking or writing, figure out what words mean and use them in different situations.

Mathematics

Engage New York Math

In order to assist educators with the implementation of the Common Core, South Walnut will use Engage New York curricular modules in K-4 Mathematics. The full year of Kindergarten Mathematics curriculum is available from module links. Kindergarten students will count to 100 by ones and tens, write numbers from 0-20 and count objects 0-20, compare two numbers 0-10, use 10's and 1's to represent numbers 11-19, add and subtract facts 0-5, solve addition and subtraction word problems to/within 10, and identify 2D shapes. Recognize numbers 0-30.

Science

Cereal City Science (Battle Creek Mathematics and Science)

Kindergarten Students will learn three units this year:

Weather and Climate

Students explore patterns in weather and how it changes from day to day, using measurement of temperature, wind, cloud cover and precipitation. They relate their findings to weather forecasting to prepare for severe conditions.

Plants and Animals Live Here

Students investigate what all plants and animals need to survive and how they find their needs in their environments.

Motion: Pushes and Pulls

Students explore the different effects of different strengths and directions of pushes and pulls on the motion of objects.

Social Studies

Houghton Mifflin, My World

Staff provide comprehensive learning solutions to help all students achieve their maximum potential. Houghton Mifflin provides flexible, dynamic instruction. Students will use the terms, yesterday, today and tomorrow to describe how we learn about the past. They will understand that maps and globes represent places and understand directions and positional words. Students learn about different regions that have common physical and human characteristics, ways people use the environment to meet human needs and wants, know that the flag is an important symbol of the U.S. A., show self-discipline and individual responsibility such as chores, following school rules, working in a group, and taking turns.

Specials:

Physical Education:

The student will:

- Understand self and general space by assuming body positions as requested by the instructor.
- Identify the location of selected body parts.
- Use locomotor skills. (walk, run, jump, hop, skip and gallop)
- Properly bounce and catch a ball.
- Use tumbling skills. (log rolls, side roll and forward roll)

The Arts:

The Student will:

- Work with materials and tools safely with environmental awareness.

- Explore the elements of art through playful sensory experiences.
- Demonstrate uses of the voice, proper instrumental technique, and steady beat.
- Use a system to read two or more pitches.
- Sing melodies with confidence in a large group.

Technology: The student will:

- Know their assigned computer and be able to turn it on.
- Open and close a program from the desktop.
- Type letters, spaces and capitals.
- Click and drag items on the computer.
- Click the back arrow and navigate between screens.
- Code.

First Grade

Reading

Reading Street Series

Reading Street teaches children to nurture the love of Reading, builds a foundation for Reading, helps to grow student capacity and inspires their confidence in the best skills to meet each child's needs. Students will identify story elements, retell a story, compare and contrast a story, identify main idea and details. Reading Comprehension Skill for Non-Fiction Genre will include identifying main idea and text features, and retell facts from informational text. Reading Foundational Skills will include fluently decoding words at 1st grade level, reading fluently at grade level, reading 1st grade sight words, decoding short vowels, decoding words with blends and digraphs, decoding long vowel sounds with silent "e", break down short words, and decode words with two syllables

Writing

Writing City

Writing City is a K-5 writing and grammar curriculum that seamlessly aligns with national and state standards and supports highly-respected best practices. Our evidence-based program leads students to success through engaging and effective lessons. With Writing City students will form and write letters neatly in all daily work, construct sentences with appropriate spacing, construct sentences with correct capitalization and punctuation, write a narrative piece, opinion piece, and informational piece, and spell first grade words correctly.

Mathematics

Engage New York Math

In order to assist educators with the implementation of the Common Core, South Walnut will use Engage New York curricular modules in K-4 Mathematics. In first grade students will write and

recognize numbers to 120, count to 120 from any number, solve missing addends, identify place value by naming tens and ones, tell time to the hour and half hour, add and subtract fluently within 10, measure the length of objects with non-standard measurements, reason with shapes and their attributes, and use fact families when adding and subtracting.

Science

Cereal City Science (Battle Creek Mathematics and Science)

First grade students will learn three units this year:

Space Systems: Patterns and Cycles

Students make observations of patterns of objects in the sky and how they seem to move. Students use patterns in data to predict some movements of objects in the sky.

Plant and Animal Traits

Students explore some ways plants and animals meet their needs to survive and grow.

Waves: Light and Sound

Students explore the relationship between vibrations and sound and design instruments or sound makers. Students explore light in terms of light traveling in a straight path from one place to another and placing different objects in the path of light.

Social Studies

Houghton Mifflin, School & Family

Staff provide comprehensive learning solutions to help all students achieve their maximum potential, Houghton Mifflin provides flexible, and dynamic instruction. Students will distinguish between producers and consumers of goods and services, they will use examples to explain scarcity and choice, distinguish between landmasses and bodies of water using maps and globes, know the difference between physical characteristics of places, explain how decisions can be made or how conflicts might be resolved in fair and just ways, identify reasons for rules in school, express a position on a public policy issue in the school community and justify the position with a reasonable argument, and demonstrate chronological thinking by distinguishing among past, present, and future using family or school events.

Specials:

Physical Education:

The student will:

- Demonstrate comprehension of locomotive concepts (back, front, beside, etc.) in response to movement challenges presented.
- Demonstrate comprehension of the proper way to toss and catch with a partner.
- Demonstrate the proper way to kick a moving ball.
- Demonstrate the proper forms of tumbling.

- Demonstrate teamwork and respect for peers.

The Arts:

The Student will:

- Revise their artwork.
- Use the elements of art to make art about important life events.
- Read quarter notes, quarter rests, and eighth notes.
- Sing a melody in a small group.
- Sing melodies with Mi, So and La
- Play a variety of rhythmic instruments.

Technology:

The student will:

- Know how to type words, spaces and capitals.
- Identify computer parts.
- Know about Cyber Safety. Stop, Block, Tell.
- Use a variety of digital tools to learn, create, and communicate.
- Use a drawing tool to draw pictures.
- Code.

Second Grade

Reading

Reading Street Series

Reading Street teaches children to nurture the love of Reading, builds a foundation for Reading, helps to grow student capacity and inspires their confidence in the best skills to meet each child's needs. Students will be asked to read two syllable words with long vowels, including vowel teams, read words with common prefixes and suffixes, ask and answer questions to show they understand text, use pictures and diagrams to understand text, and retell important ideas or details from information presented orally.

Writing

Writing City

Writing City is a K-5 writing and grammar curriculum that seamlessly aligns with national and state standards and supports highly-respected best practices. Our evidence-based program leads students to success through engaging and effective lessons. With Writing City students will write to tell an organized story with details, about events, thoughts or feelings, revise and edit writing with help from others, write simple and compound sentences, write using capitalization and apostrophes, and spell at grade level using common spelling patterns.

Mathematics

Engage New York Math

In order to assist educators with the implementation of the Common Core. South Walnut will use Engage New York curricular modules in K-4 Mathematics. In second grade student will identify numbers to 1,000, mentally add and subtract 10 to 100 to a number between 100 and 900, compare numbers to 1,000, add numbers to 20 mentally, subtract numbers to 20 mentally, add and subtract 2 digit numbers, tell and write time to the nearest 5 minutes, using (a.m.) and (p.m.) on analog and digital clocks, measure length using different tools, and divide parts of a shape into halves, thirds, or fourths using equal parts.

Science

Cereal City Science (Battle Creek Mathematics and Science)

Second grade students will learn three units this year:

Changing Earth: Today and Over Time

Students explore and develop models of different landforms and bodies of water and investigate the causes of how the land and water can change rapidly or over a long period of time.

A Plant's Life

Students explore the diversity of plants and animals, the dependency of plants on animals, and the dependency of animals on plants.

Structure and Properties of Matter

Students explore the properties of matter and how different properties make material useful in designing and building different items.

Social Studies

Houghton Mifflin, Neighborhoods

Staff provide comprehensive learning solutions to help all students achieve their maximum potential. Houghton Mifflin provides flexible, dynamic instruction. Students will be able to demonstrate an understanding of government/civics, demonstrate an understanding of geography through the use of thematic maps, and demonstrate an understanding of the regions of the United States.

Specials:

Physical Education:

The student will:

- Demonstrate the correct form for overhand throwing and catching.
- Demonstrate the correct form for kicking a soccer ball.
- Demonstrate the correct form for dribbling a basketball.
- Demonstrate selected movements for even and uneven rhythmic such as dance and jump rope.
- Demonstrate teamwork, self-control, and respect for others in physical fitness settings..

The Arts:

The Student will:

- Use of elements of art and principles of design to create meaningful art.
- Develop a visual vocabulary.
- Play instrumental parts independently.
- Sing and play melodies with Do, Mi, So and La.
- Sing melodies in groups with confidence.

Technology:

The student will:

- Log into the computer.
- Know how to turn the computer on and off.
- Know how to copy and paste.
- Identify personal information that should not be shared.
- Type 10 wpm with 90% accuracy
- Code
- Use Google Apps.

Third Grade

Reading

Reading Street Series

Reading Street teaches children to nurture the love of Reading, builds a foundation for Reading, helps to grow student capacity and inspires their confidence in the best skills to meet each child's needs. Students will read fluently at a third grade level, comprehend at a third grade level and retell a story, determine the main idea and key details for informational text, show understanding of new vocabulary, cite evidence from a text identifying text features, heading, captions, illustrations, and bold print.

Writing

Writing City

Writing City is a K-5 writing and grammar curriculum that seamlessly aligns with national and state standards and supports highly-respected best practices. Our evidence-based program leads students to success through engaging and effective lessons. Third grade students will plan, revise, edit, and proficiently write a personal, persuasive informational piece, and conduct short research projects. They will write in complete sentences using capitalization and punctuation, and correct spelling.

Mathematics

Engage New York Math

In order to assist educators with the implementation of the Common Core, South Walnut will use Engage New York curricular modules in K-4 Mathematics. In third grade, students will fluently

multiply and divide with factors to 10, add and subtract two 3 digit numbers, find the area of a figure, find the perimeter of a figure, identify fractions and their parts, name fractions on a number line, compare fractions with the same numerator or denominator, solve word problems using addition, subtraction, multiplication, division and understand the concepts of measurement using time, graphs, and line plots.

Science

Cereal City Science (Battle Creek Mathematics and Science)

Third grade students will learn three units this year:

Weather, Climate, and Natural Hazards

Students explore weather in different parts of the world and at different times of the year. They collect and analyze data to use patterns to predict future weather events and seasons.

Life Cycles and Survival in an Ecosystem

Students continue to explore the balance in an ecosystem and the dependency of organisms within the system.

Forces and Interactions

Students explore the effects of balanced and unbalanced forces on the motion of objects. Their exploration includes contact and non-contact forces using push and pull magnets and electricity

Social Studies

Hillsdale Educational Publishers: Meet Michigan

Students will identify rights and responsibilities of citizenship, identify the three branches of Michigan's government and powers of each, identify services provided by the local, county, state, and federal governments, explain how scarcity, opportunity cost, and choices affect what is produced and consumed in Michigan, describe how specialization leads to increased interdependence and will identify the impact of imports and exports on the Michigan economy, locate natural resources in Michigan and explain the impact of their use, describe diverse groups that have come to Michigan and the reasons why they came, describe how Michigan attained statehood in the year 1837, describe the relationships between American Indians and early settlers who lived in Michigan and identify public issues in Michigan that influence the daily lives of its citizens.

Specials:

Physical Education:

The student will:

- Exhibit behaviors which exemplify best effort, cooperation and compassion.
- Introduce health-related fitness standards for age and gender.
- Learn the 4 components of fitness.
- Demonstrate the correct form of basketball skills.
- Participate regularly in exercise both in and outside of school.

The Arts:

The Student will:

- Select which art materials to use and be able to justify how and why to improve a project.
- Solve an art problem.
- Examine how artists turn ideas into visual solutions.
- Use a system to read pitch, using Do, Mi, Fa, So and La.
- Play instrumental parts independently while other students sing.

Technology:

The student will:

- Use Google Apps to demonstrate creativity and communicate.
- Be a digital Citizen
- Code
- Type 10 WPM with 90% accuracy.

Fourth Grade

Reading

Reading Street Series

Reading Street teaches children to nurture the love of Reading, builds a foundation for Reading, helps to grow student capacity and inspire their confidence in the best skills to meet each child's needs. Students will read fluently and accurately at a 4th grade level, use details to determine the theme of a text, tell the main idea and key details of a non-fiction text, determine the meaning of 4th grade vocabulary, read and comprehend narrative texts and informational texts, interpret graphic sources to understand a text, analyze meanings of words, determine cause and effect, compare and contrast, and infer and support with text.

Writing

Writing City

Writing City is a K-5 writing and grammar curriculum that seamlessly aligns with national and state standards and supports highly-respected best practices. Our evidence-based program leads students to success through engaging and effective lessons. With Writing City fourth grade students will plan, revise, and edit their writing, write a personal narrative, opinion essay, and write to inform, conduct research and write a research paper, use correct capitalization and punctuation when writing, identify correct usage of homophones, produce complete sentences, and recognize and correct inappropriate fragments and run-ons, use a comma in a compound sentence, write legibly so others can read it and spell grade level appropriate words.

Mathematics

Engage New York Math

In order to assist educators with the implementation of the Common Core. South Walnut will use Engage New York curricular modules in K-4 Mathematics. In fourth grade students will read, write and compare multi-digit numbers in multiple ways, add and subtract multi-digit whole numbers using the standard algorithm, find factors and multiples of numbers in the range of 1-100, determine if a number is prime or composite, multiply multi-digit numbers, apply area and perimeter formulas, divide multi-digit numbers by a single digit number, find equivalent fractions, compare and order fractions with different numerators and denominators, add and subtract mixed numbers with like denominators, convert between improper fractions and mixed numbers, multiply a fraction by a whole number and decompose fraction, recognize and draw points, lines, angles, measuring angles and recognizing lines of symmetry and units of measure.

Science

Cereal City Science (Battle Creek Mathematics and Science)

Fourth grade students will learn three units this year:

Processes that Shape the Earth

Students explore the cause and effect relationship of weathering and erosion to Earth's surfaces. They explore changes over time due to Earth's forces and natural hazards

Structure, Function, and Information Processing

Students determine how internal and external structures support the survival, growth, behavior, and reproduction of plants and animals.

Energy and Waves

Students explore how energy moves from place to place and is observable through sound, light, heat transfer, motion, and electric currents

Social Studies

Social Studies Alive: Nystrom Junior Geographer Atlas

Nystrom- We the People: Citizen and the Constitution

Staff provide comprehensive learning solutions to help all students achieve their maximum potential, Social Studies Alive provides flexible, and dynamic instruction. Students will demonstrate an understanding of government/civics, demonstrate an understanding of geography through the use of thematic maps, and demonstrate and understand the regions of the United States.

Specials:

Physical Education:

The student will:

- Demonstrate spatial awareness.
- Demonstrate safe movement skills.

- Choose what physical activities bring joy.
- Demonstrate teamwork and good sportsmanship.

The Arts:

The Student will:

- Sing melodies in small and large groups
- Play percussion instruments using a variety of rhythms.
- Learn dances and create movements that go along with the music.
- Play the recorder independently.
- Use the elements of art and principles of design to create meaningful art.
- Select which art materials to use and be able to justify how and why it improves the project
- Engage and persist in solving problems.

Technology:

The student will:

- Code with algorithms, loops, conditionals, and events.
- Use Google Apps to demonstrate creativity and communicate.
- Be a digital citizen.
- Type 20 wpm with 90% accuracy..

Bangor Middle School

5TH GRADE

5TH GRADE ELA

This course is designed to meet Common Core and Michigan Merit Curriculum guidelines in reading and writing. In this course, students will explore composition, comprehension, grammar, critical reading and analysis, mechanics, and usage. Students will practice spelling different words and affixes, paying special attention to the relationship between the different spellings and sounds in each. Students will continue to develop their vocabulary, comprehension, and critical reading skills. As they read, students will practice evaluating the text and applying the ideas they gather. Students will dive into topics such as punctuation and parts of speech while continuing to build their research and writing skills. The literature covered in this course covers a range of genres such as drama, poetry, nonfiction, fiction, and novels.

5TH GRADE MATH

This course is designed to meet both Common Core and Michigan Merit Curriculum guidelines. In this course, students will explore concepts such as adding and subtracting decimals, place value, the coordinate plane, multiplying and dividing by using models, patterns, relationships, and algebra. As students make their way in the course, they'll work with other mathematical concepts such as operations with fractions, converting measurements, volume, 2-D figures, equivalent expressions and interpreting data. Students will practice problem-solving, reasoning, communicating, representing, and making connections as they build conceptual knowledge and continue to develop their mathematical-thinking skills.

5TH GRADE SCIENCE

This course is designed to meet the NGSS and Michigan Merit Curriculum guidelines. In this course, students will dive into topics such as life science, earth science, and physical science while continuing to build on their science inquiry skills. Students will practice planning and conducting investigations, organizing and analyzing data, and using evidence to draw conclusions. They will learn how data collected during an investigation can be used as evidence for meaningful conclusions. Crosscutting concepts integrated into this course include understanding systems and system models.

5TH GRADE SOCIAL STUDIES

This course is designed to meet the Michigan Merit Curriculum guidelines. In this course, students will dive into the history of the United States by exploring the role of government, technological advancements, migration, immigration, and important factors that have an impact on settlement. Students will chart the growth of the US by utilizing maps. They will also practice

making generalizations, comparing, sequencing events, drawing conclusions, and interpreting primary and secondary sources. Students will examine factors that impact economic growth and will also investigate how historic events and culture are affected by geography.

6TH GRADE

ELA 6

This course is designed to meet CCSS in reading and writing. Over the course of the year, students will work with increasingly complex texts in a variety of genres including poetry, drama, fiction, and non-fiction. There is a strong focus on non-fiction texts to ensure students gain practice reading, writing, and researching across subjects. Students will practice and perfect the writing skills taught in the years prior.

MATH 6

This course is designed to meet both Common Core and Michigan Merit Curriculum guidelines. Major concepts include number system fluency, rates and ratios, expressions, one-step equations, area and volume, statistics, and more. Each lesson contains a variety of resources and activities to apply and test learning.

SCIENCE 6

This course is designed to meet the NGSS and Michigan Merit Curriculum guidelines. This course will cover how to think like a scientist, outer space, the water cycle, weather and climate, geology and tectonics, conservation efforts, and more. Students will engage in virtual laboratory investigations while gaining exposure to real-life interactions that are relevant to students' lives.

SOCIAL STUDIES 6

This course is designed to meet the Michigan Merit Curriculum guidelines. Major concepts include World History Eras 1-3, civics, economics, and a heavy focus on geography. Each lesson contains a variety of resources and activities to apply and test learning.

7TH GRADE

ELA 7

This course is designed to meet CCSS in reading and writing. Students are introduced to formatting styles, such as MLA. There is a strong focus on writing and the writing process. Grammar and mechanical skills are connected to sci-fi and fantasy texts for practice with writing skills. The second half of the course focuses on historical texts from the civil rights era, with a continued emphasis on writing and language skills.

MATH 7

This course is designed to meet both Common Core and Michigan Merit Curriculum guidelines. Major concepts include expressions and equations, ratios, geometric figures, probability, and more. Each lesson contains a variety of resources and activities to apply and test learning.

SCIENCE 7

This course is designed to meet the NGSS and Michigan Merit Curriculum guidelines. This course will cover taxonomy, cells and organs, genetics and reproduction, matter and energy, ecosystems, evolution, and more. Students will engage in virtual laboratory investigations while gaining exposure to real-life interactions that are relevant to students' lives.

SOCIAL STUDIES 7

This course is designed to meet the Michigan Merit Curriculum guidelines. Major concepts include historical habits of mind, human societies 4,000 BCE - 300 CE, civics, economics, and geography. Each lesson contains a variety of resources and activities to apply and test learning.

8TH GRADE

ELA 8

This course is designed to meet CCSS in reading and writing. It starts with an exploration of the novel and short stories, and students continue to practice with formatting and citations. There is a strong focus on the craft of writing, especially the essay. The second half of the course introduces utopias and dystopias, poetry, drama, and wraps up with a research project.

MATH 8

This course is designed to meet both Common Core and Michigan Merit Curriculum guidelines. Major concepts include transformations, exponents, functions, systems of equations, and more. Each lesson contains a variety of resources and activities to apply and test learning.

SCIENCE 8

This course is designed to meet the NGSS and Michigan Merit Curriculum guidelines. This course will cover matter and energy, force, simple machines, gravity, electricity, sound, and more. Students will engage in virtual laboratory investigations while gaining exposure to real-life interactions that are relevant to students' lives.

SOCIAL STUDIES 8

This course is designed to meet the Michigan Merit Curriculum guidelines. Major concepts include foundational issues review and spans from the American Revolution through industrialization. Each lesson contains a variety of resources and activities to apply and test learning.

Middle School Electives

5th Grade Beginning Band

Prerequisite: None; beginners welcomed!

Course Description:

The 5th grade beginning band class offers instruction on woodwind, brass, and percussion instruments with a focus on the skills necessary for long-term student success. Fundamentals stressed include proper posture, playing position, development of characteristic tone quality and training in music literacy. This ensemble is a year long course and meets daily with performances in the Holiday Concert, Solo Festival, and the Spring Concert.

6th Grade Intermediate Band

Prerequisite: Completion of beginning band.

Course Description:

The 6th Grade Intermediate Band is for students who already have an understanding of basic music reading, instrument assembly, and maintenance, correct playing position, and tone production. Instruction offers continued focus on the refinement of tone quality, technique, ensemble techniques, and music literacy. This ensemble is a year long course and meets daily with performances in the Holiday Concert, Solo Festival, and the Spring Concert.

7/8 Grade Concert Band

Prerequisite: Completion of 6th Grade Intermediate Band

Course Description:

The 7/8 Concert Band meets daily and is one of the advanced performance groups at Bangor Middle School. The ensemble is composed of students on all of the major woodwind and brass instruments as well as percussionists. The ensemble is based on and structured around the *Michigan School Band and Orchestra Association* using both the State of Michigan and National Standards for Music Education. The course requires both ensemble and solo activities, which are designed to develop elements of musicianship including tone production, technical skills, intonation, music literacy, listening skills, analyzing music, the study of significant styles of music literature, and integration of other applicable disciplines. Students will develop the ability to understand and convey composers' intent in the performance of the music. Instruction concentrates on advanced technical and expressive skills in a ensemble-focused setting. The ensemble will perform at school concerts, area competitions and local festivals.

7/8 Grade Jazz Band

Prerequisite: Current member of the 7/8 Grade Concert Band

Course Description:

This ensemble is offered to current members of the 7/8 Concert Band who want to learn more about jazz. Emphasis is placed on the swing style and improvisation using the blues scale. Jazz Band performs at school concerts, for the student body, community and at festivals.

6-8 Grade Life Skills - Viking Connection Middle School- SEL

Course Description:

The purpose of this class is for students to explore expenses they will most likely encounter as adults. Students will explore how much it costs to rent a house or an apartment. The cost of electricity, water, sewage, garbage and a phone will be included in this exploration.

They will also research different colleges and find out the price of tuition, books, housing and food. They will then explore buying a car, the price of entertainment, vacations, clothing, and groceries versus eating out. They will explore jobs and income, how to make a budget, vacations and medical costs.

Students will also explore Social Emotional Learning skills that will help them deal with the fast paced world around them. Skills that focus on self regulation, avoiding peer pressure, time management and identifying emotions that will help them to navigate through the world. Students will learn and navigate appropriate use of social media and be able to demonstrate the impact of social media and the choices they make regarding their use of social media.

This class is designed to be used as an independent or group life skills class for one student or multiple students in a classroom setting

Body Systems

Course Description:

Body Systems will explore the 11 body systems in a human. Students will use a variety of methods to demonstrate an understanding of the function and interconnections of the body systems. Students will also explore how our care of the body systems can effect our health.

Middle School Study Skills

Course Description:

Students develop and strengthen their academic and organizational skills. Students explore individual strengths and weaknesses, and learn strategies for success in their academic classes. The students will set goals for themselves and track their progress through the course of the school year. Topics include time management, active listening, reading textbooks, taking notes, reviewing notes and material previously covered, preparing for tests, concentration, use of the

library and online sources, and managing homework. This is a study skills curriculum and is not intended to be utilized as a homework club.

All innovation tech classes use, “Project Lead the Way.”

Through explorations of coding and robotics, flight and space, and DNA and crime scene analysis, PLTW Gateway fuels students’ passion for discovery. As they engage in hands-on, collaborative problem solving focused on real-world challenges, students use and stretch their imaginations in brand-new ways and connect their learning to life. All the while, students step into roles spanning the career landscape – a crucial experience during this transitional time in their lives.

Innovation Tech 5

Course Description:

Students discover the design process and develop an understanding of the influence of creativity and innovation in their lives. They are then challenged and empowered to use and apply what they’ve learned throughout the unit to design a therapeutic toy for a child who has cerebral palsy.

Innovative Tech 6

Design and Modeling

Course Description:

Students discover the design process and develop an understanding of the influence of creativity and innovation in their lives. They are then challenged and empowered to use and apply what they’ve learned throughout the unit to design a therapeutic toy for a child who has cerebral palsy.

App Creators

Course Description:

App Creators This unit will expose students to computer science as a means of computationally analyzing and developing solutions to authentic problems through mobile app development, and will convey the positive impact of the application of computer science to other disciplines and to society

Innovative Tech 7

Computer Science for Innovators and Makers

Course Description:

Computer Science for Innovators and Makers Throughout the unit, students will learn about programming for the physical world by blending hardware design and software development,

allowing students to discover computer science concepts and skills by creating personally relevant, tangible, and shareable projects

Innovative Tech 8

Computer Science for Innovators and Makers

Course Description:

Computer Science for Innovators and Makers Throughout the unit, students will learn about programming for the physical world by blending hardware design and software development, allowing students to discover computer science concepts and skills by creating personally relevant, tangible, and shareable projects

Finance

Course Description:

Personal Finance is designed to help students understand the impact of individual choices on occupational goals and future earnings potential. Using simulations students will experience real world scenarios and use strategies covered in the course to help them make sound financial decisions. Students will design personal and household budgets; simulate use of checking and saving accounts; demonstrate knowledge of finance, debt, and credit management; evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions.

Genius Hour- Creative Math

Course Description:

Utilizing Math to tap into your creativity. In this class you will find new creative ideas based on mathematical concepts and their realization. What can you make using Middle School Math?

Literature Circles - Global Fantasy Literature and Art

Course Description:

A different spin on literature circles that cross disciplines by looking at fantasy literature through a social studies and arts lens.

Literature Circles - A Closer Look at Fiction

Course Description:

A different spin on literature circles that focus solely on Fiction literature.

Literature Circles- Poetry Slam for Middle Schoolers

Course Description:

Slam Poetry is an art form that blends poetry, performance, and competition to create a literary relationship with the audience. Slam poetry is a term that describes a style of spoken word poetry composed to be performed in front of a live audience, often in a competitive arena.

Creative Writing for Middle Schoolers

Course Description:

Students will work together to create and develop a middle school newsletter that features sports, chat, education, news and entertainment called the “Bangor S.C.E.N.E.”

Ancient Ruins

Course Description:

Students will expand their understanding of history by studying the people and events that ushered in the dawn of the major Western and non-Western ancient civilizations. Geography is of special significance in the development of the human story. Continued emphasis is placed on the everyday lives, problems, and accomplishments of people, their role in developing social, economic, and political structures, as well as in establishing and spreading ideas that helped transform the world forever. Students develop higher levels of critical thinking by considering why civilizations developed where and when they did, why they became dominant, and why they declined. Students analyze the interactions among the various cultures, emphasizing their enduring contributions and the link, despite time, between the contemporary and ancient worlds.

Careers

Course Description:

The course includes four components: 1) Introduction, 2) Who am I? 3) What Do I Want to Do? and 4) How Do I get There? The “Introduction” section provides an overview of the course and includes a pre-course assessment. The “Who am I?” component helps students explore who they are by doing in-class activities inclusive of using a computer to complete online assessments and worksheets related to their personality traits, learning styles, likes and dislikes, personal qualities, and accomplishments. In the “What Do I Want to Do?” component, students will learn about the sixteen National Career Clusters and potential career pathways and occupations, including job prospects, pay, and projected job growth and the educational attainment required for each occupation.

Students will perform a career interest inventory to identify their top career cluster(s), do an in-depth research project on two occupations of choice, and engage in a reality check activity to cross-check their desired lifestyle against the expected salary of their career choice and its ability to support such a lifestyle. The “How Do I get There?” the section starts with students completing

a high school program of study and continues with guidance in post-high school options, including university, community/state college, military, and apprenticeship. Students will also learn about financial options for college.

Middle School Drama

Course Description:

Over the course of the year you will experience many different aspects of acting. The goal is to improve your performance level, your knowledge of acting, and most importantly, your self-confidence. You will study acting theory and improve your acting skills, using improvisation as well as memorized, prepared scenes. You will also study theatre history, technical theatre, and some musical theatre, film, and television. You will also learn how to be an appropriate audience, and critique other's performances and productions.

Michigan History and Geography

Course Description:

Michigan History is a one-semester elective course which gives the student a comprehensive look at the history of our state with a heavy focus on the geography of the high five state!. It is built to incorporate the Michigan standards for US History and Geography and Common Core when applicable.

Introduction to World Culture

Course Description:

This course helps students master important concepts in physical and human geography. Comprehensive and organized by region, this two semester middle school course helps students understand the Earth's physical and human diversity. Students analyze population and settlement patterns and evaluate the ways that human activities modify the physical environment. While studying humans around the world, students compare development, standards of living, systems of government, and economic factors across the globe. In addition, students gain a rich understanding of global cultures and the historical factors that have shaped the world around them. All units in the course are parallel and include studies in physical and human geography, ancient cultures, regional studies, and modern issues.

Bangor High School

Bangor High School Graduation Requirements (23 Credits)

MICHIGAN MERIT CURRICULUM: The State of Michigan Department of Education requires all students to take a specific, required series of courses throughout high school to earn a State of Michigan endorsed diploma. The requirements are listed below:

Michigan Merit Curriculum Graduation Requirements (18 Credits)

SUBJECT AREA CREDIT REQUIREMENTS Each student must earn 18 credits in the subject areas and courses specified below:

	Credits
Arts	1.0
• Visual, performing and applied arts (1 credit)	
English Language Arts	4.0
• English 9* (1 credit)	
• English 10* (1 credit)	
• English 11* (1 credit)	
• English 12* (1 credit)	
• Health & Wellness (.5 credit)	
Mathematics	4.0
• Algebra I (1 credit) †	
• Geometry (1 credit)	
• Algebra II (1 credit)	
• Mathematics elective – Grade 12 (1 credit)	
† Algebra I credit earned in 8th grade applies toward graduation requirements	
Physical Education.....	0.5
• Personal Fitness (.5 credit)	
Health	0.5
Science	3.0
• Science 9 (1.0 credit)	
• Biology (1.0 credit) or	
• Chemistry (1.0 credit) or	
• Physics (1.0 credit)	
• Earth Science (1.0 credit)	
Social Studies	3.0

- World History & Geography (1 credit)
- United States History & Geography (1 credit)
- United States Government (1 credit)
- Economics (.5 credit)

World Language 2.0

ALSO REQUIRED:

- Online Integrated Learning Experience
- Electives5.0

Total Credits Required To Earn A High School Diploma 23

Some required credits can be earned in an approved CTE program at the Van Buren Technology Center. Personal Curriculums may also be used to meet requirements. All required courses and additional elective courses are offered at Bangor High School.

BANGOR HIGH SCHOOL COURSE DESCRIPTION GUIDE

ENGLISH LANGUAGE ARTS REQUIRED:

Course Title: **ENGLISH I**

Credits: 1

Grades: 9

Course Description:

English I is a common core based curriculum driven class, focused on strengthening students' reading and writing skills. This class focuses on narrative writing, the structure of the novel, non-fiction and informative writing, class discussion, drama, and persuasive writing. Students will be reading an array of novels from the classics, to contemporary pieces to further develop and understand the English language.

Course Title: **ENGLISH II**

Credits: 1

Grades: 10

Prerequisites: English I

Course Description:

The English II student will plan, present, and critique readings of literary selections. Knowledge of literary terms and forms will be applied in the student's own writing and in the analysis of different genres of literature with an emphasis on American literature. The student will be introduced to significant literary works. Increased requirements for research and reporting in all subjects will be supported by the use of print, electronic databases, online resources, and a standard style sheet method to cite reference sources. The student will distinguish between reliable and questionable Internet sources. Writing will encompass narrative, literary, expository, and informational forms, with particular attention to analysis. The student will demonstrate correct use of language, spelling, and mechanics by applying grammatical conventions in writing and speaking.

Course Title: **ENGLISH III**

Credits: 1

Grade: 11

Prerequisites: English I, II,

Course Description:

English III engages students in close reading and written analysis of literature. Students become adept at identifying and analyzing varied literary techniques as these techniques contribute to the purpose and meaning of a selection. Selected writings from American authors from various time

periods, serve as the basis for reading and for writing literary analysis. Selections include fiction, poetry, drama, literary nonfiction, and informational texts.

Course Title: **ENGLISH IV**

Credits: 1

Grades: 12

Prerequisites: English I, II, III

Course Description:

English IV students will examine college and career readiness, complete a senior project, and participate in a variety of readings. Students will research, organize, develop, express their ideas in writing typical of those required in college classes and present those ideas in various media forms. As part of their development of reading strategies, students will read fiction and non-fiction pieces. They will also complete portions of the college application process, such as writing their entrance essays as well as developing career skills such as completing and cover letter.

ENGLISH LANGUAGE ARTS ELECTIVES:

Course Title: **POETRY**

Credits: .5

Grades: 9-12

Course Description:

Our focus will include the careful study of successful poems, and a series of exercises that will help students approach writing as artisans—with attention to detail, attention to craft, and attention to the process as well as the product. Robert Frost once said, “No surprise for the poet, no surprise for the reader.” This introductory poetry course introduces poetic techniques that contemporary poets use to create their own surprises. A main goal of poetry is to allow the senses to overwhelm thought. We will study established poems to see how they make meaning through sensory images. We will also push ourselves to infuse our own writing with concrete details, careful choices, and delightful surprises.

Course Title: **BUSINESS WRITING**

Credits: 1

Grades: 11-12

Course Description:

The objective of the business, professional, and technical writing courses is to develop writing skills so that students are able to create effective reports and documents for professional settings and to communicate effectively with other professionals and customers. Topics of the courses

include: Writing Routine Business Letters; Persuasive Writing; Types of Reports--Proposals and Analytical Reports; Elements of Formal Reports; Integrating Graphics into Documents; Summarizing Information--Abstracts/Executive Summaries; Collaborative Writing; Oral Presentation Skills; Writing Job Application Materials--Resumes/Cover Letters

Course Title: **AP ENGLISH LITERATURE & COMPOSITION**

Credits: 1

Grades: 11-12

Prerequisites: English 10 at a minimum

Course Descriptions:

A.P. English Literature and Composition is a college-level course offered at the high school and designed to prepare students with the skills necessary to pass the Advanced Placement test offered by the College Board. Students who successfully complete the exam receive college level credit at participating colleges and universities. Throughout the course, students will perform in-depth studies of novels and poetry, critically analyzing literature to gain a deeper understanding of the writer's meaning. The course prepares students for the rigor of college reading and writing along with the entrance exam, university studies, and life in general.

Course Title: **CONTEMPORARY LITERATURE**

Credits: 1

Grades: 11 & 12

Prerequisites: English 10

Course Description:

Students will get a chance to experience novels rather than just read them. Students will be introduced to some of the greatest writers of our time and will be able to begin to discuss literature at a college level. Students will also learn about the Joseph Campbell, Carl Jung, and Sigmund Freud, unraveling their dreams to better understand how we approach literature in today's society. Students will also be introduced to slam poetry, and some of the up and coming poets of our time. Coffee shop style!

Course Title: **CREATIVE WRITING**

Credits: 1

Grades: 11-12

Prerequisites: English 10

Course Description:

Creative Writing is a challenging and exciting class for students to create original forms of writing. In this course, students will explore and demonstrate various means of self-expression and individuality. Students will create portfolios of their own writing and a multi-genre composition. Students will read, write, and verbally interpret an extensive range of forms

including memoirs, narratives, fiction, short stories, poems, plays, and art and music compositions.

Course Title: **FANTASY/SCI-FI LITERATURE**

Credits: 1

Grades: 11 & 12

Prerequisites: English 10

Course Description:

Fantasy literature often concerns long, life-transforming journeys beyond lands and time periods we know. This course is for those with an open mind, who love to read, and it will introduce students to a rich literary and contemporary genre. Fantasy Lit will touch on popular manifestations of fantasy in such fields as gaming, fan fiction, and film.

Course Title: **MYTHOLOGY**

Credits: 1

Grades: 11 & 12

Prerequisites: English 10

Course Description:

This course focuses on the many myths and legends woven into cultures around the world. Starting with an overview of mythology and the many kinds of folklore, students will explore the universality and social significance of myths and folklore, and see how they are still used to shape society today.

Course Title: **YEARBOOK**

Credits: 1

Grades: 9-12

Course Description:

This course is designed as an exciting and challenging for motivated students who want an in-depth experience in digital technology and want the ultimate goal of becoming student publishers. Students will prepare a publication for printing, run a business, learn appropriate communication and management skills, learn advertising techniques, and graphic design. Students will use laptop computers for online publication through Josten's Publishers to design and produce a full-color yearbook. Yearbook students practice fundamentals of journalistic writing, photojournalism, graphic design, and budget management. Students will develop a team-ethic through team-building strategies as they work as a team to produce the yearbook. **ESSENTIAL QUESTIONS: 1.** How does theme drive our yearbook? **2.** How is yearbook a tool for lifelong success.

MATHEMATICS REQUIRED:

Course Title: **ALGEBRA 1**

Credits: 1

Grades: 9

Course Description:

Algebra I includes the introduction of variables, constants, expressions, equations, and functions. In this course students will solve one-variable equations and inequalities, write and graph linear equations, and solve systems. They will also simplify and factor polynomials, graph and solve quadratic and exponential equations and analyze data. Emphasis will be placed on real-life applications and expanding arithmetic knowledge.

Course Title: **GEOMETRY**

Credits: 1

Grades: 9 & 10

Prerequisites: Algebra 1

Course Description:

Geometry introduces the study of points, segments, triangles, polygons, circles, solid figures, and their associated relationships as a mathematical system. Emphasis is placed on the description and use of inductive, deductive, and intuitive reasoning skills. Powers of abstract reasoning, spatial visualization, and logical reasoning patterns are improved through this course. Points, segments, triangles, polygons, circles, and solid figures are the structures studied. The focus is on comparisons between these figures concerning surface areas, volumes, congruency, similarity, transformations, and coordinate Geometry.

Course Title: **ALGEBRA 2**

Credits: 1

Grades: 11-12

Prerequisites: Geometry

Course Description: You will use previous algebraic skills to complete a rather rigorous study of algebraic identities, functions, polynomials, rational expressions and the complex number system. We will start with some basic operations and use these to develop more advanced algebra topics. You are required to have a notebook to record notes and complete assignments in.

MATHEMATICS ELECTIVES:

Course Title: **ACCOUNTING**

Credits: 1

Grades: 10-12

Prerequisites: Algebra 1

Course Description: This course meets the 4th year Math requirement for graduation. Must have a Counselor review. Interested in money? Enjoy puzzles? Want to earn math credit? Prepare for a business/accounting career. Analyze and prepare financial statements. Study income tax preparation.

Course Title: **PRE-CALCULUS**

Credits: 1

Grades: 11-12

Prerequisites: Algebra 2

Course Description:

You will use previously acquired math skills to complete a rather rigorous study of the trigonometric identities, functions and properties. We will start with a study of functions and their graphs and finish with polar coordinates and an introduction to Calculus. You are required to have a notebook to take notes and do assignments in. It is strongly recommended that you neatly organize your notes.

Course Title: **CALCULUS (AP CALC AB)**

Credits: 1

Grades: 11-12

Prerequisites: Pre-Calculus or teacher recommendation

Course Description:

College credit granted upon passing grade on AP Exam Topics: Functions, Limits, Derivatives, Optimization, Definite and Indefinite Integrals, Sequences and Series, Preparation for Advanced Placement Examination. TI-84 Graphing Calculator recommended

Course Title: **TRIGONOMETRY**

Credits: 1

Grades: 11-12

Prerequisites: Algebra 2

Course Description:

This course is designed to strengthen and expand various topics covered in Algebra 2 as well as Trigonometry. Topics that will be covered include: fractional exponents, quadratic inequalities, binomial theorem, sequences, rational expressions, function concepts, exponential and

logarithmic functions and complex numbers, trigonometric functions, solutions of right triangles, solutions of oblique triangles, inverse trigonometric equations, radian measure and circular functions, and trigonometric identities.

Course Title: **BUSINESS MATH A**

Credits: .5

Grades: 12

Course Description:

Students are introduced to the Mathematical concepts and skills necessary for today's consumers to make intelligent and informed financial decisions. The course is designed to cover topics our graduates will need upon graduating high school and/or college and entering the workforce. The concepts covered will consist of gross income, net income, recordkeeping, checking accounts, savings accounts, cash purchases, charge accounts and credit cards. Grading will consist of homework, quizzes, tests, and a comprehensive final exam.

Course Title: **BUSINESS MATH B**

Credits: .5

Grades: 12

Course Description:

Students continued to be introduced to the Mathematical concepts and skills necessary for today's consumers to make intelligent and informed financial decisions. The course is designed to cover topics our graduates will need upon graduating high school and/or college and entering the workforce. The concepts covered will consist of loans, purchasing a new vehicle, purchasing a used vehicle, vehicle insurance, maintaining a vehicle, leasing and renting a vehicle, housing costs, insurance and investments. We will also cover business topics such as personnel decisions, purchasing and inventory, sales, and marketing. Grading will consist of homework, quizzes, tests, and a comprehensive final exam.

Course Title: **SENIOR FINANCE**

Credits: 1

Grades: 12

Prerequisites:

Course Description:

Understanding and managing personal finances are key to one's future financial success. This one-semester course is designed to present essential knowledge and skills to make informed decisions about real world financial issues. The course content is designed to help the learner make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success. Students' knowledge will be assessed by taking a final semester exam.

PHYSICAL EDUCATION/HEALTH REQUIRED:

Course Title: **PE/Health**

Credits: 1

Grades: 9-12

Prerequisites:

Course Description:

Health and Physical Education is a vital part of a complete education. Students who complete Health and Physical Education will demonstrate awareness from a variety of core wellness content. Students will have the ability to independently learn through a variety of PBL activities that can enhance their academic performance and classroom behavior throughout the school day. Increasing health knowledge and developing healthy behaviors in our students helps them become well-rounded individuals. Students will be introduced to and participate in activities that will help them remain active, learn to set and achieve health related goals while developing soft skills in a social setting. During health students will have an opportunity to explore health related topics in detail and learn positive decision making skills. Physical Fitness will be a main focus throughout the course of the curriculum. Health content will be instructed through Michigan Model Curriculum.

PHYSICAL EDUCATION/HEALTH ELECTIVES:

Course Title: **Personal Fitness/Strength and Conditioning**

Credits: 1

Grades: 10-12

Prerequisites:

Course Description:

Strength & Conditioning classes are designed to actively demonstrate and develop skills in activities that will help students maintain fitness throughout their life. Students fitness levels will be assessed in the following areas: cardiovascular endurance, flexibility, muscular strength and muscular endurance. BFS benchmarks will be the primary focus for evaluating performance/assessment. From these assessments we will develop a baseline in which we will use to set personal fitness goals. We will explore fitness activities designed to improve all areas of fitness. Our goal is that by the end of the year students will improve their scores on their baseline fitness tests through regular cardiovascular endurance training, muscular endurance training, and activities designed to increase current levels of fitness. Students will be introduced to life-long activities designed to increase their likelihood of exercising in the future. Students will understand the benefits that regular exercise can provide for a person's mental, physical, and social health. Physical Fitness will be a main focus throughout the course of the curriculum.

Course Title: **Co-Ed Sports-Fall and Spring**

Credits: 1

Grades: 10-12

Prerequisites:

Course Description

CO-ED provides the participants with the opportunity to explore a variety of team and individual sports and activities. Students must have the desire and ability to participate in a competitive, but fun co-operative setting. The purpose of the class is to increase the probability that participants will stay active for a lifetime. Students will utilize individual sport units in the form of skill assessment. Students will be evaluated on Pre/Post skill related movement patterns. Students are encouraged to demonstrate soft skills within a social setting. Students have the ability within the class to designate individual skill performance. Co-ED is recommended for students who enjoy competitive competition over a variety of team/individual sport/recreational activities. Students will develop skills in activities that will help students maintain fitness throughout their life. Physical Fitness will be a main focus throughout the course of the curriculum.

Course Title: **Team Sports**

Credits: .5

Grades: 10-12

Prerequisites:

Course Description:

The purpose of this course will develop the techniques utilized in fundamental skills for team sports. This course will also focus on the various stages of games skill development. An emphasis will be placed on designing a variety of learning experiences for grade appropriate sports. Students are encouraged to demonstrate soft skills within a social setting. Physical Fitness will be a main focus throughout the course of the curriculum.

SCIENCE REQUIRED:

Course Title: **SCIENCE 9**

Credits: 1

Grades: 9

Course Description:

Science 9 is a course that seeks to provide an overview of the most common science fields that are encountered in our lives. We will spend some time exploring physics, chemistry, earth science and even some biology. Learning to think scientifically and seeking the connections between different fields of study are a critical part to understanding how the world all works as one big system. This course will involve several projects where problems will be encountered, and then overcome. Science 9 seeks to provide all students with a baseline knowledge of all the core science fields, and to spark an interest in the sciences in general.

Course Title: **BIOLOGY**

Credits: 1

Grades: 10

Course Description:

Biology is the scientific study of life. Biology is a 2 semester course. In the 1st semester (Bio A) we will cover the following fields of interest: Biological Molecules, Cells, Cell Division and Genetics. We will include Latin/Greek vocabulary to help learn complex biological terminology. In Bio B we will focus on modern genetics, protein synthesis, photosynthesis, cell respiration, microbiology, ecology, and evolution. The course will be peppered with labs, lectures (notes), internet interactive assignments, group projects/presentations, collaborative activities, traditional worksheets. The intent is to prepare students for college level biology with the understanding that not all my students are going on to college. I want students to understand the relevance of biology in their lives and in their body. Biology attempts to explain how life exists on this planet and how it continues to evolve.

Course Title: **CHEMISTRY**

Credits: 1

Grades: 11-12

Prerequisites: Biology

Course Description:

Chemistry is a very important class to not only better understand how different natural phenomena act, but to also continue learning to think scientifically. This course will cover all of the basics of chemistry, and will incorporate hands-on activities and labs. As such, there will need to be some time devoted to classroom and laboratory safety. If time permits, we may also cover

some basic physics skills that are applicable to everyday life. There will be a warm-up question almost every day, assigned seats, and any papers turned in will be returned to the student's folder that is kept in the classroom, if not returned electronically. There will be a final exam that will cover all topics discussed in class that is worth 20% of your total grade.

SCIENCE ELECTIVES:

Course Title: **ASTRONOMY**

Credits: 1

Grades: 11-12

Prerequisites: Biology or Geometry

Course Description:

Develop an advanced understanding of the universe. Topics of study include celestial motion, evolution of stars, galaxies, and planets. Learn how astronomical instruments are used to measure distance, composition, and luminosity of the stars.

Course Title: **AP BIOLOGY**

Credits: 1

Grades: 10-12

Prerequisites: Science 9

Course Description:

In this elective course students are challenged with learning activities equivalent to those of a general biology course usually taken during the first year of college. Those successful in this course will attain a depth of understanding of biological concepts, significant laboratory experiences, and knowledge of current research directions that will prepare them to take the Advanced Placement Examination in Biology. Students are expected to meet college-level competencies.

Course Title: **PHYSICS**

Credits: 1

Grades: 11-12

Prerequisites: Biology

Course Description:

This is a physical science course for the college-bound student. Physics is about what happens in the world around you. It is about the colors in the rainbow and the sparkle and hardness of a diamond. You can join the adventure as you begin to understand the world around you.

Course Title: **MICROBIOLOGY**

Credits: 1

Grades: 11-12

Prerequisites: Biology

Course Description:

Introduction to Microbiology is appropriate for students with some background in biology and chemistry whose career path intersects the study of microbes or simply have an interest in microbiology. This course introduces the basic principles of microbiology examining the microbes that inhabit our planet and their effect on the biosphere. Lecture topics explore the basic principles of microbiology and examine the microbes that inhabit our planet and their effect on the biosphere. Students will analyze the influence of microbiology and 21st century challenges and opportunities that arise from our changing relationship with and understanding of microbes.

Course Title: **BIOCHEMISTRY**

Credits: 1

Grades: 11-12

Prerequisites: Biology

Course Description:

This course includes the reactions, strategy, and regulation of the major metabolic pathways in humans and of selected pathways in plants, and the storage, repair, and transmission of genetic information.

Course Title: **DISEASE DETECTIVES**

Credits: 1

Grades: 10-12

Course Description:

Have you ever found yourself enthralled by bizarre illnesses or fantastical diseases? Do you spend time wondering how a disease spreads through a population, or how different microscopic pathogens are able to so drastically impact the lives of people? If any of these questions catch your interest, Disease Detectives is the course for you. Over the course of our one semester together, we will look into the basics of microbiology, gaining an understanding of how bacteria and viruses are able to infiltrate our bodies, bringing down creatures that are significantly larger than they themselves are. After we gain a basic understanding of the general structure of microbial players, we then will take a look at a wide variety of diseases, both common and rare, learning how to recognize key symptoms of a disease, and how to help prevent diseases wherever possible. Lastly, we will look at how diseases can spread from person to person, eventually reaching pandemic levels.

Course Title: **SPORTS SCIENCE**

Credits: 1

Grades: 9-12

Course Description:

Are you a sports fan who often wonders “How did THAT happen???” Whether it’s looking at the physics behind hitting a homerun, or the physiology of a pitchers arm as they throw a curveball, there is much more to any sport than you may realize. In this one semester course, we will take a look at the various forces behind sports, gaining an understanding of how athletes are able to make their bodies perform tasks that defy belief. We will begin by learning some anatomy and physiology, to gain a working knowledge of the human body, before moving into some physics to better understand how the body can then be used to capture the imaginations of countless populations.

Course Title: **BOTANY**

Credits: .5

Grades: 11-12

Prerequisites: Must have completed Biology IA and IB with a grade of a B- or better.

Students also must have completed Chemistry IA and Chemistry IB.

Reserved for Juniors and Seniors and those interested in nursing or the medical field.

Course Description: Botany is the scientific study of plant life. Botany covers a wide range of scientific disciplines that study plants, algae, and fungi including: structure, growth, reproduction, metabolism, development, diseases, and chemical properties and evolutionary relationships between the different groups. The study of plants and botany began with tribal lore, used to identify edible, medicinal and poisonous plants, making botany one of the oldest sciences. From this ancient interest in plants, the scope of botany has increased to include the study of over 550,000 kinds or species of living organisms.

Course Title: **FORENSIC SCIENCE: THE SCIENCE OF CRIME**

Grades: 10-12

Prerequisites: Biology

Course Description: We watch with interest as crime scenes are dramatized on television and in film, and sit on the edge of our seat as various members of the justice system solve the most baffling cases. But what about the science behind the crime? Forensic Science is the application of the methods and techniques of the basic sciences to legal issues. This class explores the role science and technology plays in this fascinating and growing career. In this course, you’ll learn the specialized skills and techniques used during a crime scene investigation and how evidence and data is expertly collected, preserved, and analyzed. With a strong focus on the innovative science used in the field as well as participation in interactive activities, you will follow the entire

forensic process – from examining evidence to taking the findings to trial – and learn how the professionals are utilizing science to bring criminals to justice.

Course Title: **ANATOMY**

Credits: .5

Grades: 11-12

Prerequisites: Must have completed Biology IA and IB with a grade of a B- or better.

Students also must have completed Chemistry IA and Chemistry IB. Reserved for Juniors and Seniors and those interested in nursing or the medical field.

Course Description:

This course presents a systemic approach to the study of the human body. Presentations start with an introduction of anatomical terminology and an overview of cellular processes and tissue classification. Students then learn the gross and microscopic anatomy of the following systems: integumentary, skeletal, muscular, nervous, circulatory, respiratory, digestive, urinary and reproductive. The lab component of the course generally parallels and reinforces lecture concepts.

SOCIAL STUDIES REQUIRED:

Course Title: **WORLD HISTORY & GEOGRAPHY A & B**

Credits: 1

Grades: 9

Course Description:

1st Semester A - In our current social studies sequence, this is the first semester of the freshman course, required for graduation. Like the title implies, it is a combination of World History and World Geography, with a greater emphasis on history. This course covers the time period from 300 CE to 1800 CE, from the fall of classical empires to the first global age. Included in the first nine weeks are units on the Decline and Fall of Classical Civilizations, Growth of Islam, Europe in the Middle Ages and Africa to 1500. The remainder of the course includes units on Asian history, the Renaissance and Age of Exploration. It builds upon the World History curriculum that is taught in 6th and 7th grade, and follows the frameworks of the Michigan High School Social Studies Content Expectations and Common Core Standards for Social Studies in Reading and Writing.

2nd Semester B - In our current social studies sequence, this is the second semester of the freshman course, required for graduation. Like the title implies, it is a combination of World History and World Geography, with a greater emphasis on history. This course covers the time period from 1800 CE to the present, beginning with the Age of Global Revolutions, Industrial Revolution, Colonialism in Africa and Asian topics. The second nine weeks includes the two World Wars, Global Economic Crisis, and the post-Cold War age. It builds upon the World History curriculum that is taught in 6th and 7th grade, and follows the framework of the Michigan High School Social Studies Content Expectations and Common Core Standards for Social Studies in Reading and Writing.

Course Title: **US HISTORY A & B**

Credits: 1

Grades: 10

Course Description:

Welcome to US History! This is a required course for graduation and the Michigan Merit Curriculum. This course will teach you not only the who, what, where, when and why, but also help you to make connections between the events of the past and how they impact Americans of all types today. You will learn to analyze foundational documents, work in small and large groups, communicate yourself verbally and in writing and refine your study skills for your future. The course is a blend of lecture, research, content and project-based learning, and much of the course will be available on the class Google Classroom.

Course Title: **GOVERNMENT**

Credits: .5

Grades: 11-12

Prerequisites: US History

Course Description:

American Government is a one semester class designed to acquaint students with the origins, concepts, organizations, and policies of the United States government and political system. To increase comprehension, students will read and analyze relevant primary and secondary source documents and incorporate these ideas into the assigned material. Some of the topics that will be covered are: early foundations, limited government, legislative branch, executive branch, and the judicial branch. Students' knowledge of American Government will be assessed by completing a semester final exam.

Course Title: **ECONOMICS**

Credits: .5

Grades: 11-12

Prerequisites: US History

Course Description:

Economics course is a one semester class designed to acquaint students with principal concepts of economics. To increase comprehension, students will read and analyze relevant primary and secondary source documents and incorporate these ideas into the assigned material.

Students will also use measurement concepts and methods such as tables, charts, graphs, ratios, percentages and index numbers to understand and interpret relevant data. Some of the main concepts covered in economics are: fundamental concepts, microeconomics, macroeconomic institutions, macroeconomic policy, international and global policy, and personal finance. Students' knowledge of economics will be assessed by completing a semester final exam.

SOCIAL STUDIES ELECTIVES:

Course Title: **PIRATES, VIKINGS, & EXPLORERS**

Credits: .5

Grades: 9-12

Course Description:

Welcome explorers! This class covers the great seafaring explorers of history, and the impact they had on the world. From early Greece to Modern Somali Pirates, if they sailed, we'll meet them.

Class Description: In this one semester class, you will learn about Greek sailors, Vikings, Asian and Polynesian seafaring cultures, the Golden Age of Exploration, the age of sail on the Great Lakes, and especially Pirates. We will cover both historical and fictional representations of piracy,

the governments who protected them, and the impact they had on the world economies, wars and discovery. This class will take students outside of the classroom for further exploration. Additionally, we look at the science of sailing and navigation on the high seas.

Course Title: **MAPPING THE WORLD**

Credits: .5

Grades: 9-12

Course Description:

This is a new approach to learning geography. Draw a map of the world from memory and what would it look like? Then, break the world down into 10 regions and draw in details for every country, capital, landform and body of water, learning them along the way. Finally, draw another detailed map of the world from memory and compare it with the first memory map. Amaze yourself at how much you have learned!

Course Title: **MICHIGAN HISTORY**

Credits: .5

Grades: 9-12

Course Description:

Michigan History is a one-semester elective course which gives the student a comprehensive look at the history of our state. The course includes the Native American period, French and British rule, early settlement to territory and statehood, Civil War, urbanization, industrial growth, farming, and 20th century manufacturing and modern challenges. The course also teaches local history, MLA documentation, and includes a paper and powerpoint presentation on a topic of the student's choice. It is built to incorporate the Michigan standards for US History and Geography and Common Core when applicable.

Course Title: **HISTORY OF ROCK 'N ROLL**

Credits: 1

Grades: 10-12

Course Description:

Be a rock genius! Learn where everything you listen today came from! Have you heard the music coming from room 5 this year? This year-long, two semester course utilizes the TeachRock curriculum, which connects the history of popular music to meaningful exploration in academic subject areas. It encourages critical listening and thinking, using print and visual media. Music is often presented in the historical context in which it was created. The course is broken down into four main areas:

- The Birth of Rock: Early traditions, Elvis, Doo Wop and more
- Teenage Rebellion: Surf, Girl Groups, 60s Soul, The British Invasion, and more
- Transformation: Dylan, Hard Rock, Detroit, 1967, Country Rock, and more

- Fragmentation: Metal, Glam, Progressive, Punk, New Wave, Grunge, Hip Hop, and more

Course Title: **CLASSROOM CONGRESS**

Credits: .5

Grades: 11-12

Prerequisites: Government

Course Description:

Learn how the legislative branch works by doing it yourself! Debate all issues that are on the minds of high school students! After a brief review, everyone will research and write their own bills, participate as a member of two committees, introduce bills before the Congress, and debate and vote on others' bills. Each student selects a real house district to research and represent. This is guaranteed fun learning for all for anyone with opinions who enjoys arguing about them.

Course Title: **ADVANCED PLACEMENT US GOVERNMENT AND POLITICS**

Credits: 1

Grades: 11 & 12

Course Description:

This college-level course is designed to promote higher-level thinking skills so students can analyze essential concepts pertinent to U.S. Government and Politics. The subject matter that will be covered in this course will help prepare students for the AP Exam. All information contained in this syllabus is subject to change at the instructor's discretion. Students will be expected to commit a minimum of 5 hours outside of classroom time for homework in preparation of the coursework and test. Students will be expected to read an extensive body of primary source documents, and to write responses to Free Response and Document-Based Questions in preparation for the AP Exam. Successful completion of this course will prepare the student to take the AP Exam in the spring, with the possibility of earning college credit for Government.

Course Title: **ADVANCED PLACEMENT US HISTORY**

Credits: 1

Grades: 10 - 12

Course Description:

Advanced Placement U.S. History is a college-level introductory course which examines the nations' political, diplomatic, intellectual, cultural, social, and economic history from the Pre-Columbian Period (1490s) to the present.

Course Title: **CURRENT ISSUES**

Credits: .5

Grades: 10-12

Prerequisites:

Course Description:

Current Issues is a one-semester elective course involved with the examination of contemporary national and International events.

Course Title: **SOCIOLOGY**

Credits: .5

Grades: 11-12

Prerequisites:

Course Description:

Sociology is a one-semester course designed to introduce the student to the kinds of questions this discipline asks about society. It also presents contrasting approaches for reaching conclusions. The course, which deals with selected and sociological concepts of significance to high school students, is designed to involve them in exploring these concepts. Content, structure and teaching strategies of the course are arranged with the idea that the student learns best when they are actively involved in the learning process and when they study topics which are relevant to them.

Course Title: **MODERN AMERICAN HISTORY**

Credits: 1

Grades: 11-12

Prerequisites:

Course Description:

In this course, students will study the role and position of the United States in the twenty first century. They will evaluate how late twentieth century events affect the United States' role and policies in today's world. The course will also analyze current events and trace their historical roots, giving students increased perspective for today

Course Title: **WORLD CULTURES**

Credits: 1

Grades: 11-12

Prerequisites:

Course Description:

In this course, students will study many of the aspects that contribute to our current American culture. We will begin by learning principles of social science to look at the world around us with a different perspective. As we navigate through the meanings of race, culture, and ethnicity we will then delve into African American studies and Latino American studies respectively. By understanding African American and Latino American history, we can begin to create a more cohesive understanding of the culture that surrounds us today. Various current event and "forum days" will be used to discuss current issues and student topics of interest. Students will be

challenged to think critically, and discuss respectively, with the ultimate goal to become active in our understanding and respect of ourselves and those around us.

Course Title: **HISTORY OF POP CULTURE**

Credits: .5

Grades: 9-12

Prerequisites:

Course Description:

This course explores the history of expressive and material cultures around the world, with emphasis on industrialized nations. Topics include aesthetics, social identification, and production, consumption, and reception of cultural forms. Using literature, films, pictures, and music, students study theories of popular culture and aesthetic hierarchy; explicate historical contexts of artistic movements; discuss cultural imperialism; address problems of cultural appropriation, creativity, and identity; and examine cultural expressions of social difference and deviance. Topics also include the social history of culture in the age of mass society, including popular arts and the culture of consumption.

Course Title: **HISTORY OF SPORT**

Credits: .5

Grades: 9-12

Prerequisites:

Course Description:

This course examines the development of sports in America, from the colonial period to the present. Students will explore how unorganized and impromptu athletic activities were transformed into spectator sports at the collegiate and professional level, and the ways in which sports reflected and informed issues of race, class, gender, ethnicity and international politics. Specific topics include: the transformation of “blood sports” into acceptable athletic pursuits, such as boxing; amateurism and the rise of athletic clubs; baseball’s popularity during the first half of the twentieth century; sports heroes of the 1920s and 1930s; women’s sports; racial segregation in sports; athletic rivalries during the Cold War; and the globalization of American sports. Students will also examine important events in sports history, including the 1919 Black Sox scandal, the bouts between Joe Louis and Max Schmeling, the racial integration of major sports leagues, the creation of free agency, the establishment of Title IX, and the American-led boycott of the 1980 Moscow Olympics. The course will consist of films, readings, lectures and discussions.

Course Title: **PSYCHOLOGY**

Credits: .5

Grade: 12

Prerequisites:

Course Description:

The purpose of this course is to develop an understanding of the mental and behavioral characteristics of individuals and groups. Students will: Learn to develop an understanding of the mental and behavioral characteristics of individuals and groups Study various theories of personality, behavior, identity, principles of learning, emotions, motivation, consciousness and the roots of mental illness Completion of a personality/identity profile of self by end of semester incorporating theories learned in class.

VISUAL, PERFORMING, APPLIED ARTS ELECTIVES:

Course Title: **BAND**

Credits: 1

Grades: 9-12

Prerequisites:

Course Description:

These courses are for band members who are beginning, have one year or two years (or equivalent) of training on a band instrument. It emphasizes the fundamentals of music as well as listening skills and the study of various styles of music along with sound production.

Course Title: **GRAPHIC ARTS 1**

Credits: .5

Grades: 9-12

Prerequisites:

Course Description:

Fine Art Designed for the student who wants to explore a wide range of media, techniques, and approaches to the visual arts. The class will begin with various studies on the elements and principles of art and then move into more advanced concepts. Students will be exposed to drawing, painting, sculpture, printmaking, 3D design, lettering, and computer generated art. The vast majority of class time will be spent completing projects with lectures and demonstrations at the beginning of each unit. Topics to be covered: The Puzzle of me Lettering Sculptures Keith Haring 3D People Printmaking Photoshop Comics Installation Art

HS Band:

Prerequisite: Previous experience is required.

The High School Band is based on and structured around the *Michigan School Band and Orchestra Association* using both the State of Michigan and National Standards for Music Education. Students taking this course are provided with a balanced, comprehensive study of music through the marching, pep, and concert band program.

The course requires both ensemble and solo activities, which are designed to develop elements of musicianship including tone production, technical skills, intonation, music literacy, listening skills, analyzing music, the study of significant styles of music literature, and integration of other applicable disciplines. Students will develop the ability to understand and convey composers' intent in the performance of the music. Instruction concentrates on advanced technical and expressive skills in a ensemble-focused setting. The ensemble will perform at school concerts, athletic events, area competitions and local festivals, for the student body, and in our community.

HS Jazz Band:

Prerequisite: Current member of the HS Band

The High School Jazz Band is based on and structured around the *Michigan School Band and Orchestra Association* using both the State of Michigan and National Standards for Music Education. Students taking the course are provided with a balance of instruction learning all jazz styles and improvisation techniques. The ensemble will perform at school concerts, area competitions and local festivals, and in our community.

Course Title: **POTTERY**

Credits: .5

Grades: 9-12

Prerequisites:

Course Description:

Beginning ceramics is a course designed to provide students with a foundation of knowledge and experience in the use of clay as an expressive medium. Students will explore the properties and characteristics of clay by learning various construction techniques, such as pinch, coil, slab and wheel forming. Students will learn about surface enrichment and glazing. They will explore the fundamentals of aesthetic perception, creative expression, historical and cultural heritage, and aesthetic.

Course Title: **CHOIR**

Credits: 1

Grades: 9-12

Prerequisites:

Course Description:

Build a strong musical foundation for students who seek a general knowledge of music and desire to build strong musicianship skills. Learn to sing correctly, read music by notes, learn music theory, perform three part music. Gain skills that will give the students the confidence to sing solo. Designed primarily for underclassmen. No auditions required, just a positive attitude!

Course Title: **THEATRE PERFORMANCE 1A & 1B**

Credits: 1

Grades: 9-12

Prerequisites:

Course Description:

Over the course of the year you will experience many different aspects of acting and creating theatre as well as explore the different styles of theatre. The goal is to improve your performance level, your knowledge of theatre, and most importantly, your self-confidence. You will study

acting theory and improve your acting skills, using improvisation as well as memorized, prepared scenes. You will also study theatre history, technical theatre, and some musical theatre, film, and television. You will also learn how to be an appropriate audience, and critique other's performances and productions.

Course Title: **THEATRE PERFORMANCE 2A & 2B (Show Choir)**

Credits: 1

Grades 9-12

Prerequisites: Auditions Required

Course Description:

Students in Show Choir will learn the skills of dancing and singing at the same time. Students will learn and perform songs from modern popular music as well as other classic show-style tunes such as music from Broadway while doing exciting theatrical gestures. Students need no prior singing or dance experience, but must be actively committed to learning how to do both. Class time will be spent on voice training, learning dance moves, and memorizing routines. Students are expected to attend all concerts and performances as they are scheduled throughout the year. Grading and assignments will be primarily performance and rehearsal based, but there will also be several projects and/or assignments involving reading, writing, and/or personal research throughout the year. Students will be introduced to many genres of vocal music at the beginning of the year including holiday music, international and foreign language, spirituals, and classical pieces in order to expand their vocal music background. Students will be offered the opportunity to participate in Choir Festivals, Solo & Ensemble competitions and end-of-year performances at a theme park or other venue.

Course Title: **THEATRE PERFORMANCE 3A & 3B (Advanced Acting & Directing, Advanced Technical Theatre)**

Credits: 1

Grades: 10-12

Prerequisites: Theatre Performance 1A-B

Course Description:

1st Semester 3A (can be taught concurrently with Theatre Performance 1A) - This class takes what the students learn in Theatre Performance 1A and digs deeper into acting and directing. The focus of this class will be refining the skills students learned in TP1A and focusing on the end result - the performance. Students will be asked to compete in High School Theatre Festivals, learn and perform One-Act Plays for the Community, Youth Productions for the Elementary and Middle School and audition for the school's Fall and Spring Productions. Independent Study Options are available for Directing and Playwriting. Students wishing to audition for college

programs will also be coached in audition techniques. Theatre Performance 1A is a required prerequisite.

2nd Semester 3B (can be taught concurrently with Theatre Performance 1B) - This class expands and focuses aspects of technical theatre from TP1B. Students will choose 2 areas to focus (costume, set, lights, etc) and further expand their portfolios with the end goal to interview for college programs in design and theatre technology. Students will also be required to contribute to the Fall and Spring productions either by working on them as crew, or contributing to the design process of the shows. Students will have the opportunity to work with the technical department of the Kalamazoo Civic in 1 day master classes.

Course Title: **THEATRE PERFORMANCE 4A & 4B (Entrepreneurship and Business Theatre)**

Credits: 1

Grades: 11 & 12

Prerequisites: Theatre Performance 1A-B

Course Description:

This class focuses on the business end of theatre. Students will learn how to budget, hire, market and advertise for a theatre production. Students will be in charge of managing the Bangor High School Auditorium, and finally, students will have the opportunity to create and design their own business outside of theatre. Students will be invited to participate in the Youth in Business competition with cash prizes. Students will research and explore what makes a successful entrepreneur from Andrew Carnegie to Steve Jobs. Finally, students will have real world experience designing the print materials for the two productions. (Posters, tickets, t-shirt designs, advertisements, playbills, etc.) Graphic design elements will be worked into this class as students not only design the production materials, but create new and exciting designs for their own budding business. Students will take field trips to area businesses, colleges and theatres.

Course Title: **HS ART I**

Credits: 1

Grades: 9-12

Course Description:

High School Art 1 is a course that provides an introduction to art through a multimedia experience. Students will learn and apply the elements and principles of design to produce creative art projects that reflect their understanding of these concepts.

Course Title: **DRAWING & PAINTING**

Credits: 0.5?

Grades: 10-12

Prerequisites: Art 1

Course Description:

This is a second level art course focusing on 2 dimensional media. Students will continue to explore the elements and principles of art, current and past practicing artists, technique, and concept as it pertains to art making. A variety of 2 dimensional media will be explored including but not limited to, pencil, charcoal, pastels, acrylics, watercolors, etc.

Course Title: **SCULPTURES**

Credits: .5

Grades: 10-12

Prerequisites: Art 1

Course Description:

This is a second level art course focusing on an exploration of new materials and techniques with an appreciation of sculptural three-dimensional forms. Historical and contemporary concepts ranging from representational figures to abstract forms are investigated. A variety of three dimensional media will be explored including but not limited to, Clay, plaster, Paper, cardboard, wire, wood, metal, cloth and found objects.

Students will be required to keep a sketchbook; hand drawing is required.

WORLD LANGUAGE REQUIRED:

Course Title: **SPANISH 1**

Credits: 1

Grades: 9-11

Prerequisites:

Course Description:

In this course, the goal will be to acquire Spanish language. “Acquiring” a language is very different than “learning” a language. Acquisition of a language occurs through consistent comprehensible input - listening to and reading passages that you can comprehend.

In this course, we will use methods and strategies that are based on Dr. Stephen Krashen’s Input Hypothesis. In particular, we will use the TPRS (Teaching Proficiency through Reading and Storytelling) method of language instruction that was developed by Blaine Ray and based on the work of Dr. James Asher. The adopted curriculum for this course is “Somos Level 1” by Martina Bex at The Comprehensible Classroom.

Class time will focus on the acquisition of high frequency structures (the most frequently used words in a language). We will use these structures in class discussions, stories, and cultural explorations, and you will be expected to recognize them when you read or hear them and, in time, be able to produce them in speech and writing. Before the year ends, you will read a novel and be reading, listening, and writing at at least the “Novice High” level according to Michigan and ACTFL World Language Standards.

(https://www.michigan.gov/documents/mde/World_Languages_Complete_3-26-07_193195_7.pdf

)

Course Title: **SPANISH 2**

Credits: 1

Grades: 9-11

Prerequisites: Spanish 1

Course Description:

In this course, the goal will be to acquire Spanish language. “Acquiring” a language is very different than “learning” a language. Acquisition of a language occurs through consistent comprehensible input - listening to and reading passages that you can comprehend.

In this course, we will use methods and strategies that are based on Dr. Stephen Krashen’s Input Hypothesis. In particular, we will use the TPRS (Teaching Proficiency through Reading and Storytelling) method of language instruction that was developed by Blaine Ray and based on the work of Dr. James Asher. The adopted curriculum for this course is “Somos” (Split levels 1 & 2) by Martina Bex at The Comprehensible Classroom.

Class time will focus on the acquisition of high frequency structures (the most frequently used

words in a language). We will use these structures in class discussions, stories, and cultural explorations, and you will be expected to recognize them when you read or hear them and, in time, be able to produce them in speech and writing. Spanish 2 will begin to incorporate the past tense, as well as building on prior learning of the present tense. Before the year ends, you will read a novel and be reading, listening, and writing at at the “Intermediate Low” level and speaking at the “Novice High” level according to Michigan and ACTFL World Language Standards.

(https://www.michigan.gov/documents/mde/World_Languages_Complete_3-26-07_193195_7.pdf)

Course Title: **SPANISH HERITAGE**

Credits: 1

Grades: 9-12

Prerequisites: Must test out Spanish 1 and/or The Spanish AAPPL Biliteracy Test , National Spanish Exam.Org, be a Native Spanish Speaker

Course Description:

The general objectives of this course are to develop competence in students’ reading and writing skills, to master certain grammar points particular to heritage speakers, to help them improve their presentational skills and take into account the experiences and influences of their bilingual and bicultural upbringing. In this course students will become aware of certain norms of written Spanish, such as the use of spelling, punctuation, accent marks and certain grammatical points. They will also continue to build their lexicon and become aware of the different variants of Spanish in order for them to feel confident in their use of the language in different settings.

WORLD LANGUAGE ELECTIVES:

Course Title: **HISPANIC MEDIA & EXPRESSION**

Credits: .5

Grades: 9-12

Prerequisites:

Course Description:

In this course, students will examine the Hispanic & Latino influence and representation in various forms of media such as art, cinema, television, Internet, and literature. Students will practice writing skills necessary to participate in argumentative writing and close text analysis. Students will regularly compare and connect to their own culture of media in the United States.

This course is an English-speaking course, and though there will be a variety of movies and shows in Spanish, they will always include subtitles.

Course Title: **SPANISH 3 / 4**

Credits: 1

Grades: 9-12

Prerequisites: Spanish 1 & 2

Course Description:

The purpose of this class is to expand your fluency and deepen your understanding of the mechanics of the Spanish language. The instruction in this class is delivered in Spanish, and the expectation is that students will communicate in Spanish, unless with permission to use English. You will read novels, write book reports, and speak and listen to the language daily. In this class we will focus on communication, grammar, vocabulary, and culture. This class will focus more heavily than Spanish 1 or 2 on reading and writing, both independently and as a class. When you leave this class, I'm positive that you will have a better appreciation of reading in a Spanish language! This course is taught with A/B year curriculum, therefore students who take this class may be in their third or fourth year of Spanish. The A/B curriculum prevents those students who go on to take level 4 from repeating the same material.

GENERAL ELECTIVES:

Course Title: **SYSTEMS OF ROBOTICS**

Credits: 1

Grades: 9-12

Prerequisites:

Course Description:

This course is a year long course designed to introduce students to understanding and building simple robots. Students will study gears, pneumatics, hydraulics, motors, sensors, and programming software. Students will be: Designing, Building, Programming, Applying skills, Communicating, Documenting, and Presenting. This class will function as the build team for our Robotics Team.

Course Title: **LEADERSHIP : SEL: VIKING CONNECTIONS**

Credits: 1

Grades: 10-12

Prerequisites:

Course Description:

Students develop and strengthen their leadership skills. Students are expected to develop and use their initiative and time management skills. Students are expected to spend time outside of class to complete coursework and projects. Students are involved in school and community projects, assembly planning, student council meetings, school improvement projects, recognition projects, and many more.

Course Title: **VIRTUAL REALITY**

Credits: .5

Grades: 10-12

Prerequisites:

Course Description:

This course will introduce you to Virtual Reality (VR). The course will teach you everything from the basics of VR- the hardware and the history of VR- to different applications of VR, the psychology of Virtual Reality, and the challenges of the medium. The course is designed for people who are new to VR as a medium. You may have experienced some virtual reality before, and may have some hardware- but this course is suitable to individuals who have never experienced VR and those who do not have much hardware- we will explain Mobile VR as well as devices such as the Oculus Rift and HTC Vive.

Course Title: **CHILL OUT**

Credits: .5

Grades: 11-12

Prerequisites:

Course Description:

Students are introduced to meditation, relaxation, and journaling techniques as a coping strategy for stress. Guided exercises will focus on different aspects of stress reduction and slowing down. We will experiment with calm lighting, breathing, music, and mantras. Students will need rugs or mats and comfortable clothing.

Course Title : **ENTREPRENEURSHIP**

Credits: .5

Grades: 10-12

Prerequisites:

Course Description:

Entrepreneurship will explore the concepts and effects of entrepreneurship in world commerce. Each students will take an in depth look at their own drive, perseverance, resourcefulness, open-mindedness, and stamina in running a business. Each entrepreneur will create their own business plan including: business description, products and services, market analysis, implementation strategy, organization of management team, and financial plans. This plan will be presented to a mock board for “financial approval”.

Course Title: **FILM APPRECIATION**

Credits: 1

Grades: 10-12

Prerequisites:

Course Description:

Let’s go to the movies! Movies are so much more than just escapist entertainment or a way to sell popcorn- they’re a sophisticated modern artistic medium with a distinct visual language and the repository of the hopes, dreams, values, and aspirations of cultures and artists from around the globe and throughout the past century of film. In this class we’ll learn about the unique language of film and different models of criticism to learn about and discuss some of our favorite films.

Course Title: **HUNTING & FISHING SKILLS**

Credits: .5

Grades: 9-12

Prerequisites:

Course Description:

Develop your Hunting and Fishing Skills!

We'll teach you casting and fishing basics, and can provide you with a rod and reel to use if you don't have your own. With step-by-step direction, you'll learn fishing basics like knot-tying, setting up your pole, casting, selecting and using bait, and removing fish from the hook. If there is time and interest, we can look into fly tying and rod building.

We'll teach new hunters responsibility, ethics, firearm safety, wildlife conservation and wildlife identification, game care, survival and first aid.

Course Title: **INTERACTIVE MYTHOLOGY & FANTASY**

Credits: .5

Grades: 9-12

Prerequisites:

Course Description:

Why simply learn about mythology or fantasy topics, when you could actually put yourself in a situation to interact with the legends? That premise is the basis for the class Interactive Mythology and Fantasy. In this one semester course, students will be introduced to classical mythological creatures and legends, then through the medium of tabletop role playing, actually be allowed to interact with those legends and concepts in a more hands-on manner. Spanning a wide range of fantasy genres and different cultural myths, this course will give us a new lens to view the world through as students assume the roles of mythological legends and interact with other aspects of myth in character.

Course Title: **MINDFULNESS**

Credits: .5

Grades: 9-12

Prerequisites:

Course Description:

Students will learn the concept of mindfulness and what being fully aware of the mind and body can do. Students will practice mindful meditation and yoga as well as spend time outdoors do disconnect from technology, and reconnect to nature. Students will also delve into texts by those who coined the term mindfulness to learn how to cope with daily stress, depression, anxiety, etc.

Course Title: **GONE BOARDING**

Credits: 1

Grades: 11-12

Prerequisites:

Course Description:

The goal of Gone Boarding is to Engage, Inspire, and ultimately Empower students to actively pursue their passions in the 21st century. It is a program that was conceived and developed by Bill Curtis and Bruce Macartney, teachers in the Forest Hills Public School District in Grand Rapids, Michigan. They wanted to create something that would engage students who were slipping through the cracks of the school system.

Students in the Gone Boarding class work in groups. They design, construct, and learn to ride all types of boards including: surfboards, snowboards, skateboards/long boards, stand up paddle boards, wake surfboards, and wake boards. Students also take part in service projects involving younger students through mentoring relationships built around action sports, and partner with the community to make an impact, both locally and globally. Every kid in America should have the opportunity to experience Gone Boarding as it allows them to fully engage with their learning and take ownership of their future.

Course Title: **WILDERNESS SURVIVAL**

Credits: 1

Grades: 11-12

Prerequisites:

Course Description:

Learn the most important wilderness survival skills: natural shelter construction, water purification, primitive fire making, and obtaining wild edible foods. This class is a combination of practical information, demonstrations, and hands-on experience with each of the skills.

Wilderness survival skills not only provide valuable tools that can be life-saving in the wilderness, but also teach concepts useful in the event of a natural disaster. Survival skills enhance our connection to nature and connect us with our ancestral roots. In this course, you gain the knowledge and experience to meet basic wilderness survival challenges.

Course Title: **PUBLIC SPEAKING**

Credits: .5

Grades: 9-12

Prerequisites:

Course Description:

This course is designed for all students who have a desire to improve their communication skills through the use of formal and informal speech. This course enables students to develop the necessary skills required to communicate clearly and effectively. Students will enhance their oral

expression by engaging in discussions, interpreting literature, and organizing, writing and delivering original speeches. Students are expected to develop confidence, ease and poise before an audience.

Course Title: **COMIC ILLUSTRATION (aka SEQUENTIAL ART AND VISUAL NARRATIVE)**

Credits: .5

Grades: 9-12

Prerequisites:

Course Description:

Do you like comics? Graphic novels? Manga? Do you like to draw and have a story to tell? In this class we'll be learning about how to use pictures to tell stories. It's something humankind has been doing since we made the first art thousands of years ago on cave walls and continues to evolve today with modern tools and complex storytelling mediums. We'll work with both traditional media as well as digital to take our ideas from concept to completion and realize our stories as images.

Course Title: **DIGITAL MEDIA**

Credits: .5

Grades: 9-12

Prerequisites:

Course Description:

Digital Media is a course designed to educate students on the ever-changing digital world, as well as to provide hands-on experience with industry standard software and equipment. The curriculum covers a wide range of areas and appeals to a diverse group of students. Topics covered in Digital Media classes include graphic design, animation, audio production, video production, and web design. Students are introduced to movie-making and editing software and tools, audio mixing tools, and animation techniques. Students decide the project they want to create, then do it. Want to film documentaries? Cool, you can do that. Want to create a weekly podcast? Got the tools for that too. Want to write and animate stop-motion animation? Awesome, we have a place for you. The only limits on this class is each student's imagination and drive. Learn to be a Maker in our evolving digital world.

Course Title: **INTRO TO BUSINESS**

Credits: 1

Grades: 10-12

Prerequisites:

Course Description:

Students are introduced to the business concepts and skills required in today's marketplace by participating in a virtual business simulation. Students will be exploring business concepts including operating the School Store, assisting in the management, finances, purchasing and inventory control. Upon completion of the virtual business, students will open their own virtual stores and compete against each other. This class also functions as the marketing arm of our Robotics Team.

Course Title: **LIFE SKILLS**

Credits: .5

Grades: 9-12

Prerequisites:

Course Description:

Do your cooking skills end at mac and cheese? Then this is the class for you! Learn the basics about how to take care of yourself. From how to create an economical grocery list to how to scramble an egg, this class offers many skills that are necessary to survive in the outside world. Students will also learn budgeting strategies, how to file taxes, apply for loans, etc. The entire class is essentially one #lifehack at a time.

Course Title: **FOODS**

Credits: .5

Grades: 9-12

Prerequisites:

Course Description:

This is a single semester laboratory based course designed to help students' develop a basic knowledge of foods and nutrition, wise consumer skills and an understanding of the relationship between nutrition and health. Students will learn food and kitchen safety techniques, food preparation and meal management skills, as well as an understanding of diet and health-related issues. (This course may not be repeated for credit.)

Course Title: **Coding**

Credits: .5

Grades: 9-12

Prerequisites:

Course Description:

The course takes a wide lens on computer science by covering topics such as programming, physical computing, HTML/CSS, and data. Students engage with computer science as a medium for creativity, communication, problem solving, and fun. The course inspires students as they build their own websites, apps, games, and physical computing devices.

Bangor Career Academy

BANGOR CAREER ACADEMY COURSE DESCRIPTION GUIDE (Level: 9-12th grade)

MICHIGAN MERIT CURRICULUM: The State of Michigan Department of Education requires all students to take a specific, required series of courses throughout high school to earn a State of Michigan endorsed diploma. The requirements are listed below:

Michigan Merit Curriculum Graduation Requirements (18 Credits)

Bangor Career Academy Graduation Requirements (20 Credits - includes 18 credits from Michigan Merit Curriculum)

ENGLISH LANGUAGE ARTS (ELA) – 4 Credits (ELA 9, 10, 11, 12)

MATHEMATICS – 4 Credits (Algebra 1, Geometry, Algebra 2, additional math credit taken during the senior year)

ONLINE LEARNING EXPERIENCE Course Learning, or Integrated Learning Experience.

PHYSICAL EDUCATION & HEALTH – 1 Credit (0.5 PE and 0.5 Health)

SCIENCE-3 Credits (Science 9, Biology, Chemistry or Physics)

SOCIAL STUDIES – 3 Credits (World History, US History, Government/Economics)

VISUAL, PERFORMING, AND APPLIED ARTS – 1 Credit

WORLD LANGUAGE – 2 Credits

Some required credits can be earned in an approved CTE program at the Van Buren Technology Center. Personal Curriculums may also be used to meet requirements. All required courses and additional elective courses are offered at Bangor Career Academy.

ENGLISH LANGUAGE ARTS REQUIRED:

Course Title: **ENGLISH 9**

Credits: 1

Grades: 9

Course Description: This course is facilitated online through Apex Learning. English 9 introduces students to informational and literary genres. Students investigate the elements of nonfiction and literature through the critical analysis of texts that range from essays, speeches, articles and historical documents to a novel, a play, poetry and short stories. As they develop their writing skills and respond to theses, students learn to formulate arguments and use textual evidence to support their position. Throughout the course, students learn to engage with a variety

of media types through which they process and synthesize information, discuss material, create presentations, and share their work.

Course Title: **ENGLISH 10**

Credits: 1

Grades: 10

Prerequisites: English 9

Course Description: This course is facilitated online through Apex Learning. The focus of the English 10 course is the writing process. Three writing applications guide the curriculum: persuasive, expository, and narrative writing. Each lesson culminates in a written assignment that lets students demonstrate their developing skill in one of these applications. Readings include poems, stories, speeches, plays, and a graphic novel, as well as a variety of informational texts. The readings represent a wide variety of purposes and cultural perspectives, ranging from the Indian epic The Ramayana to accounts of Hurricane Katrina told through different media. Audio and video presentations enhance students' awareness and command of rhetorical techniques and increase their understanding of writing for different audiences.

Course Title: **ENGLISH 11**

Credits: 1

Grade: 11

Prerequisites: English 10

Course Description: This course is facilitated online through Apex Learning. In this course, students analyze a wide range of literature, both fiction and nonfiction. They build writing skills by composing analytical essays, persuasive essays, personal narratives, and research papers. In order to develop speaking and listening skills, students participate in discussions and prepare speeches. Overall, students gain an understanding of the way American literature represents the array of voices contributing to our multicultural identity.

Course Title: **ENGLISH 12**

Credits: 1

Grades: 12

Prerequisites: English 11

Course Description: This course is facilitated online through Apex Learning. Throughout this course, students analyze a wide range of literature, both fiction and nonfiction. They build writing skills by composing analytical essays, persuasive essays, personal narratives, and research papers. In order to develop speaking and listening skills, students participate in discussions and prepare speeches. Overall, students gain an understanding of the way world literature represents the array of voices that contribute to our global identity.

ENGLISH LANGUAGE ARTS ELECTIVES:

Course Title: **AP ENGLISH LITERATURE & COMPOSITION**

Credits: 1

Grades: 11-12

Prerequisites: English 10 at a minimum

Course Descriptions: This course is facilitated online through Apex Learning. In AP English Language and Composition, students investigate rhetoric and its impact on culture through analysis of notable fiction and nonfiction texts, from pamphlets to speeches to personal essays. The equivalent of an introductory college-level survey class, this course prepares students for the AP exam and for further study in communications, creative writing, journalism, literature, and composition.

Course Title: **CREATIVE WRITING**

Credits: 1

Grades: 11-12

Prerequisites: English 10

Course Description: This course is facilitated online through Apex Learning. Creative Writing is an English elective course that focuses on the exploration of short fiction and poetry, culminating in a written portfolio that includes one revised short story and three to five polished poems. Students draft, revise, and polish fiction and poetry through writing exercises, developing familiarity with literary terms and facility with the writing process as they study elements of creative writing.

MATHEMATICS REQUIRED:

Course Title: **ALGEBRA 1**

Credits: 1

Grades: 9

Course Description: This course is facilitated online through Apex Learning. Algebra I builds students' command of linear, quadratic, and exponential relationships. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations. Course topics include problem-solving with basic equations and formulas; an introduction to functions and problem solving; linear equations and systems of linear equations; exponents and exponential functions; sequences and functions; descriptive statistics; polynomials and factoring; quadratic equations and functions; and function transformations and inverses.

Course Title: **GEOMETRY**

Credits: 1

Grades: 9 & 10

Prerequisites: Algebra 1

Course Description: This course is facilitated online through Apex Learning. Geometry builds upon students' command of geometric relationships and formulating mathematical arguments. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations. Course topics include reasoning, proof, and the creation of sound mathematical arguments; points, lines, and angles; triangles and trigonometry; quadrilaterals and other polygons; circles; congruence, similarity, transformations, and constructions; coordinate geometry; three-dimensional solids; and applications of probability.

Course Title: **ALGEBRA 2**

Credits: 1

Grades: 11-12

Prerequisites: Geometry

Course Description: This course is facilitated online through Apex Learning. Algebra II introduces students to advanced functions, with a focus on developing a strong conceptual grasp of the expressions that define those functions. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations. Course topics include quadratic equations and functions; polynomial functions; rational expressions and functions; radical expressions and functions; exponential and logarithmic functions; trigonometric functions; modeling with functions;

probability and inferential statistics; probability distributions; and sampling distributions and confidence intervals.

MATHEMATICS ELECTIVES:

Course Title: **ACCOUNTING**

Credits: 1

Grades: 10-12

Prerequisites: Algebra 1

Course Description: This course is facilitated online through Apex Learning.

Course Title: **PERSONAL FINANCE**

Credits: 1

Grades: 12

Prerequisites: Algebra 1, Geometry and Algebra 2

Course Description: This course is facilitated online through Apex Learning. Mathematics of Personal Finance focuses on real-world financial literacy, personal finance, and business subjects. Students apply what they learned in Algebra I and Geometry to topics including personal income, taxes, checking and savings accounts, credit, loans and payments, car leasing and purchasing, home mortgages, stocks, insurance, and retirement planning. Students then extend their investigations using more advanced mathematics, such as systems of equations (when studying cost and profit issues) and exponential functions (when calculating interest problems).

Course Title: **PROBABILITY & STATISTICS**

Credits: 1

Grades: 12

Prerequisites: Algebra 1, Geometry and Algebra 2

Course Description: This course is facilitated online through Apex Learning. Probability and Statistics provides a curriculum focused on understanding key data analysis and probabilistic concepts, calculations, and relevance to real-world applications. Students are challenged to work toward mastery of computational skills, apply calculators and other technology in data analysis, deepen their understanding of key ideas and solution strategies, and extend their knowledge through a variety of problem-solving applications. Course topics include types of data, common methods used to collect data, and representations of data, including histograms, bar graphs, box plots, and scatterplots. Students learn to work with data by analyzing and employing methods of extending results, involving samples and populations, distributions, summary statistics, experimental design, regression analysis, simulations, and confidence intervals.

PHYSICAL EDUCATION/HEALTH REQUIRED:

Course Title: **PE**

Credits: .5

Grades: 9-12

Prerequisites: None

Course Description: This course is facilitated online through Apex Learning. Physical Education combines the best of online instruction with actual student participation in weekly cardiovascular, aerobic, and muscle toning activities. The course promotes a keen understanding of the value of physical fitness and aims to motivate students to participate in physical activities throughout their lives. Specific areas of study include: Cardiovascular exercise and care, safe exercising, building muscle strength and endurance, injury prevention, fitness skills and FITT benchmarks, goal setting, nutrition and diet (vitamins and minerals, food labels, evaluation product claims), and stress management. The course requires routine participation in adult-supervised physical activities. Successful completion of this course will require parent/legal guardian sign-off on student-selected physical activities and on weekly participation reports to verify the student is meeting his or her requirements and responsibilities.

Course Title: **Health**

Credits: .5

Grades: 9-12

Prerequisites: None

Course Description: Health helps students develop knowledge, attitudes, and essential skills in a variety of health-related subjects, including mental and emotional health, social health, nutrition, physical fitness, substance use and abuse, disease prevention and treatment, and injury prevention and safety. Through use of accessible information and project-based learning, students apply the skills they need to stay healthy. These skills include identifying and accessing valid health information, practicing self-management, identifying internal and external influences, communicating effectively, making healthy decisions, setting goals, and advocating. Students who complete Health build the skills they need to protect, enhance, and promote their own health and the health of others.

SCIENCE REQUIRED:

Course Title: **SCIENCE 9**

Credits: 1

Grades: 9

Prerequisite: None

Course Description: This course is facilitated online through Apex Learning. Course topics include energy, forces, electromagnetism, waves, matter, chemical reactions, and nuclear reactions. Teacher-scored labs encourage students to apply the scientific method. Students discover new concepts through guided instruction and confirm their understanding in an interactive, feedback-rich environment. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts.

Course Title: **BIOLOGY**

Credits: 1

Grades: 10

Prerequisite: Science 9

Course Description: This course is facilitated online through Apex Learning. The course begins with an introduction to the nature of science and biology, including the major themes of structure and function, matter and energy flow, systems, and the interconnectedness of life. Students then apply those themes to the structure and function of the cell, cellular metabolism, and biogeochemical cycles. Building on this foundation, students explore the connections and interactions between living things by studying genetics, ecosystems and natural selection, and evolution. The course ends with an applied look at human biology.

Course Title: **CHEMISTRY**

Credits: 1

Grades: 11-12

Prerequisites: Biology and Algebra 1

Course Description: This course is facilitated online through Apex Learning. The course provides students with opportunities to learn and practice critical scientific skills within the context of relevant scientific questions. Topics include the nature of science, the importance of chemistry to society, atomic structure, bonding in matter, chemical reactions, redox reactions, electrochemistry, phases of matter, equilibrium and kinetics, acids and bases, thermodynamics, quantum mechanics, nuclear reactions, organic chemistry, and alternative energy. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, form and test hypotheses, and use logic and evidence to draw conclusions about concepts. Lab activities

reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science.

SCIENCE ELECTIVES:

Course Title: **PHYSICS**

Credits: 1

Grades: 11-12

Prerequisites: Biology and Algebra 1 and 2

Course Description: This course is facilitated online through Apex Learning. The course provides students with opportunities to learn and practice critical scientific skills within the context of relevant scientific questions. Topics include the nature of science, math for physics, energy, kinematics, force and motion, momentum, gravitation, chemistry for physics, thermodynamics, electricity, magnetism, waves, nuclear physics, quantum physics, and cosmology.

SOCIAL STUDIES REQUIRED:

Course Title: **WORLD HISTORY A & B**

Credits: 1

Grades: 9

Prerequisite: None

Course Description: This course is facilitated online through Apex Learning. In World History, students learn to see the world today as a product of a process that began thousands of years ago when humans became a speaking, traveling, and trading species. Through historical analysis grounded in primary sources, case studies, and research, students investigate the continuity and change of human culture, governments, economic systems, and social structures.

Course Title: **US HISTORY A & B**

Credits: 1

Grades: 10

Prerequisite: None

Course Description: This course is facilitated online through Apex Learning. U.S. History traces the nation's history from the pre-colonial period to the present. Students learn about the Native American, European, and African people who lived in America before it became the United States. They examine the beliefs and philosophies that informed the American Revolution and the subsequent formation of the government and political system. Students investigate the economic, cultural, and social motives for the nation's expansion, as well as the conflicting notions of liberty that eventually resulted in civil war. The course describes the emergence of the United States as an industrial nation and then focuses on its role in modern world affairs.

Course Title: **GOVERNMENT**

Credits: .5

Grades: 11-12

Prerequisites: US History

Course Description: This course is facilitated online through Apex Learning. In U.S. Government and Politics, students examine the history, principles, and function of the political system established by the U.S. Constitution. Starting with a basic introduction to the role of government in society and the philosophies at the heart of American democracy, this course provides students with the knowledge needed to be informed and empowered participants in the U.S. political system.

Course Title: **ECONOMICS**

Credits: .5

Grades: 11-12

Prerequisites: US History

Course Description: This course is facilitated online through Apex Learning. Economics offers a tightly focused and scaffolded curriculum that provides an introduction to key economic principles. The course covers fundamental properties of economics, including an examination of markets from both historical and current perspectives; the basics of supply and demand; the theories of early economic philosophers such as Adam Smith and David Ricardo; theories of value; the concept of money and how it evolved; the role of banks, investment houses, and the Federal Reserve; Keynesian economics; the productivity, wages, investment, and growth involved in capitalism; unemployment, inflations, and the national debt; and a survey of the global economy.

SOCIAL STUDIES ELECTIVES:

Course Title: **ADVANCED PLACEMENT US GOVERNMENT AND POLITICS**

Credits: 1

Grades: 11 & 12

Course Description: This course is facilitated online through Apex Learning. AP U.S. Government and Politics studies the operations and structure of the U.S. government and the behavior of the electorate and politicians. Students will gain the analytic perspective necessary to critically evaluate political data, hypotheses, concepts, opinions, and processes. Along the way, they'll learn how to gather data about political behavior and develop their own theoretical analysis of American politics. They'll also build the skills they need to examine general propositions about government and politics, and to analyze the specific relationships between political, social, and economic institutions. The equivalent of an introductory college-level course, AP U.S. Government and Politics prepares students for the AP exam and for further study in political science, law, education, business, and history.

Course Title: **ADVANCED PLACEMENT US HISTORY**

Credits: 1

Grades: 10 - 12

Course Description: This course is facilitated online through Apex Learning. In AP U.S. History, students investigate the development of American economics, politics, and culture through historical analysis grounded in primary sources, research, and writing. The equivalent of an introductory college-level course, AP U.S. History prepares students for the AP exam and for further study in history, political science, economics, sociology, and law.

Course Title: **SOCIOLOGY**

Credits: .5

Grades: 11-12

Prerequisites: None

Course Description: This course is facilitated online through Apex Learning. Major course topics include individual and group identity, social structures and institutions, social change, social stratification, social dynamics in recent and current events, the effects of social change on individuals, and the research methods used by social scientists.

Course Title: **WORLD CULTURES**

Credits: .5

Grades: 11-12

Prerequisites: None

Course Description: This course is facilitated online through Apex Learning. Multicultural Studies is a one-semester elective history and sociology course that examines the United States as a multicultural nation. The course emphasizes the perspectives of minority groups while allowing students from all backgrounds to better understand and appreciate how race, culture and ethnicity, and identity contribute to their experiences. Major topics in the course include identity, immigration, assimilation and distinctiveness, power and oppression, struggles for rights, regionalism, culture and the media, and the formation of new cultures.

Course Title: **PSYCHOLOGY**

Credits: .5

Grade: 12

Prerequisites: None

Course Description: This course is facilitated online through Apex Learning. Psychology provides a solid overview of the field's major domains: methods, biopsychology, cognitive and developmental psychology, and variations in individual and group behavior. By focusing on significant scientific research and on the questions that are most important to psychologists, students see psychology as an evolving science. Each topic clusters around challenge questions, such as "What is happiness?" Students answer these questions before, during, and after they interact with direct instruction.

VISUAL, PERFORMING, APPLIED ARTS ELECTIVES:

Course Title: **Art Appreciation**

Credits: .5

Grades: 9-12

Prerequisites: None

Course Description: This course is facilitated online through Apex Learning. Art Appreciation is a survey of the history of Western visual arts, with a primary focus on painting. Students begin with an introduction to the basic principles of painting and learn how to critique and compare works of art. Students then explore prehistoric and early Greek and Roman art before they move on to the Middle Ages. Emphasis is placed on the Renaissance and the principles and masters that emerged in Italy and northern Europe. Students continue their art tour with the United States during the 20th century, a time of great innovation as abstract art took center stage. While Western art is the course's primary focus, students will finish the course by studying artistic traditions from Africa, Asia, Oceania, and the Americas.

Course Title: **Music Appreciation**

Credits: .5

Grades: 9-12

Prerequisites: None

Course Description: This course is facilitated online through Apex Learning. Music Appreciation introduces students to the history, theory, and genres of music, from the most primitive surviving examples through the classical to the most contemporary in the world at large. The course is offered in a two-semester format. The first semester covers primitive musical forms and classical music. The second semester presents the rich modern traditions, including American jazz, gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip-hop.

WORLD LANGUAGE REQUIRED:

Course Title: **SPANISH 1**

Credits: 1

Grades: 9-11

Prerequisites: None

Course Description: This course is facilitated online through Apex Learning. Spanish I teaches students to greet people, describe family and friends, talk about hobbies, and communicate about other topics, such as home life, occupations, travel, and medicine. Each lesson presents vocabulary, grammar, and culture in context, followed by explanations and exercises. Vocabulary includes terms to describe school subjects, parts of the body, and people, as well as idiomatic phrases. Instruction in language structure and grammar includes the structures and uses of present-tense verb forms, imperatives, adjective agreement, impersonal constructions, formal and informal address, and reflexive verbs. Students explore words used in different Spanish-speaking regions and learn about the cultures of Spanish-speaking countries and regions within and outside Europe.

Course Title: **SPANISH 2**

Credits: 1

Grades: 9-11

Prerequisites: Spanish 1

Course Description: This course is facilitated online through Apex Learning. Building on Spanish I concepts, Spanish II students learn to communicate more confidently about themselves, as well as about topics beyond their own lives - both in formal and informal situations. Each lesson presents vocabulary, grammar, and culture in context, followed by explanations and exercises. Students expand their vocabulary in topics such as cooking, ecology, geography, and architecture. Instruction in language structure and grammar includes a review of present-tense verb forms, an introduction to the past tense, the conditional mood, imperatives, impersonal constructions, and reported speech. Students deepen their knowledge of Spanish-speaking regions and cultures by learning about history, literature, culture, and contemporary issues.

GENERAL ELECTIVES:

Course Title: **Computer Science Essentials**

Credits: 1 (two semesters)

Grades: 9-12

Prerequisites: None

Course Description: This course is facilitated online through Apex Learning. Computer Science Essentials offers a focused curriculum designed around foundational computer science concepts, including computer systems, programming, networks, and data management. The course also introduces students to foundational computer science skills such as coding, troubleshooting, and being a responsible digital citizen. Course topics include the history and impact of computers; careers in computer science; computing laws and ethics; bias and equity issues in computing; algorithms and coding; data storage, organization, and analysis; hardware and software; robotics; networks and the internet; cybersecurity and online safety; website design; and the use of abstraction in computing. Students discover new concepts through guided instruction and confirm their understanding in an interactive, feedback-rich environment.

Course Title: College and Career Prep 1

Credits: .5

Grades: 9-12

Prerequisites: None

Course Description: This course is facilitated online through Apex Learning. In College and Career Preparation I, students obtain a deeper understanding of what it means to be ready for college. Students are informed about the importance of high school performance in college admissions and how to prepare for college testing. They know the types of schools and degrees they may choose to pursue after high school and gain wide exposure to the financial resources available that make college attainable. Career readiness is also a focus. Students connect the link between interests, college majors, and future careers by analyzing career clusters. Students come away from this course understanding how smart preparation and skill development in high school can lead into expansive career opportunities after they have completed their education and are ready for the working world.

Course Title: **College and Career Prep 2**

Credits: .5

Grades: 9-12

Prerequisites: College and Career Prep 1

Course Description: This course is facilitated online through Apex Learning. College and Career Preparation II builds on the lessons and skills in College and Career Preparation I. The course provides a step-by-step guide to choosing a college. It walks students through the process of

filling out an application, including opportunities to practice, and takes an in-depth look at the various college-admission tests and assessments, as well as financial aid options. College and Career Preparation II also instructs students in interviewing techniques and provides career guidance. Students explore valuable opportunities such as job shadowing and internships when preparing for a career.

Course Title: Media Literacy

Credits: .5

Grades: 9-12

Prerequisites: None

Course Description: This course is facilitated online through Apex Learning. Media Literacy teaches students how to build the critical thinking, writing, and reading skills required in a media-rich and increasingly techno-centric world. In a world saturated with media messages, digital environments, and social networking, concepts of literacy must expand to include all forms of media. Today's students need to be able to read, comprehend, analyze, and respond to non-traditional media with the same skill level they engage with traditional print sources. A major topic in Media Literacy is non-traditional media reading skills, including how to approach, analyze, and respond to advertisements, blogs, websites, social media, news media, and wikis. Students also engage in a variety of writing activities in non-traditional media genres, such as blogging and podcast scripting.

Course Title: Reading Skills and Strategies

Credits: .5

Grades: 8-11

Prerequisites: None

Course Description: This course is facilitated online through Apex Learning. Reading Skills and Strategies is a course designed to help the struggling reader develop mastery in the areas of reading comprehension, vocabulary building, study skills, and media literacy, which are the course's primary content strands. Using these strands, the course guides the student through the skills necessary to be successful in the academic world and beyond. The reading comprehension strand focuses on introducing the student to the varied purposes of reading (e.g., for entertainment, for information, to complete a task, or to analyze). In the vocabulary strand, the student learns specific strategies for understanding and remembering new vocabulary. In the study skills strand, the student learns effective study and test-taking strategies. In the media literacy strand, the student learns to recognize and evaluate persuasive techniques, purposes, design choices, and effects of media. The course encourages personal enjoyment in reading with 10 interviews featuring the book choices and reading adventures of students and members of the community.

Course Title: Writing Skills and Strategies

Credits: .5

Grades: 8-11

Prerequisites: None

Course Description: This course is facilitated online through Apex Learning. Writing Skills and Strategies develops key language arts skills necessary for high school graduation and success on high stakes exams through a semester of interactive instruction and guided practice in composition fundamentals. The course is divided into ten mini-units of study. The first two are designed to build early success and confidence, orienting students to the writing process and to sentence and paragraph essentials through a series of low-stress, high-interest hook activities. In subsequent units, students review, practice, compose and submit one piece of writing. Four key learning strands are integrated throughout: composition practice, grammar skill building, diction and style awareness, and media and technology exploration. Guided studies emphasize the structure of essential forms of writing encountered in school, in life, and in the work place. Practice in these forms is scaffolded to accommodate learners at different skill levels.

Course Title: **Principles of Business, Marketing and Finance**

Credits: 1 (two semesters)

Grades: 11-12

Prerequisites: None

Course Description: This course is facilitated online through Apex Learning. Principles of Business, Marketing, and Finance provides the knowledge and skills students need for careers in business and marketing. Students begin exploring roles and functions that business and marketing play in a global society, develop an understanding of the marketplace, as well as understanding product placement and promotion. Students analyze the impact of government, legal systems, and organized labor on business; develop an understanding of business communications and management; and explore legal, ethical, and financial issues in business and marketing. Furthermore, students delve into basic economic concepts including personal finance, economic systems, cost-profit relationships, and economic indicators and trends.

Course Title: **Business Applications**

Credits: .5

Grades: 11-12

Prerequisites: None

Course Description: This course is facilitated online through Apex Learning. Business Applications prepares students to succeed in the workplace. Students begin by establishing an awareness of the roles essential to an organization's success, and then work to develop an understanding of professional communications and leadership skills. In doing so, students gain

proficiency with word processing, email, and presentation management software. This course allows students to explore careers in business while learning skills applicable to any professional setting. Through a series of hands-on activities, students will create, analyze, and critique reports, letters, project plans, presentations, and other professional communications. Regular engagement in active learning ensures students can continually refine the skills necessary to prepare them for work. In addition, students will evaluate the qualifications required for specific careers so they can identify opportunities that are of interest to them.

BANGOR CAREER ACADEMY
REQUIRED COURSES FOR GRADES 6-8

MATHEMATICS REQUIRED:

Course Title: **Mathematics 6**

Credits: Not applicable

Grades: 6

Prerequisites: None

Course Description: This course is facilitated online through Apex Learning. Math 6 delivers instruction, practice, and review designed to develop computational fluency, deepen conceptual understanding, and apply mathematical practices. Course topics include ratios and rates, fraction and decimal operations, and signed numbers. Students continue to build their algebra skills by plotting points in all four quadrants of the coordinate plane and solving equations and inequalities. Geometry topics include area, surface area, and volume, and statistical work features measures of center and variability, box plots, dot plots, and histograms.

Course Title: **Mathematics 7**

Credits: Not applicable

Grades: 7

Prerequisites: Mathematics 6

Course Description: This course is facilitated online through Apex Learning. Math 7 delivers instruction, practice, and review designed to develop computational fluency, deepen conceptual understanding, and apply mathematical practices. Throughout the course, students gain a deep understanding of proportions and their use in solving problems. They extend their fluency with operations on rational numbers and translate among different forms of rational numbers. Algebra topics include simplifying and rewriting algebraic expressions and solving more complex equations and inequalities. Students also sketch geometric figures and explore scale drawings, investigate circle properties and angle relationships, and deepen their understanding of area, volume, and surface area. They see how statistics uses sample data to make predictions about populations and compare data from different data sets. Students gain a fundamental understanding of probability and explore different ways to find or estimate probabilities.

Course Title: **Mathematics 8**

Credits: Not applicable

Grades: 8

Prerequisites: Mathematics 7

Course Description: This course is facilitated online through Apex Learning. Math 8 delivers instruction, practice, and review designed to develop computational fluency, deepen conceptual understanding, and apply mathematical practices. In this course, students focus on understanding functions — what they are, how to represent them in different ways, and how to write them to model mathematical and real-world situations. In particular, students investigate linear functions by learning about slope and slope-intercept form. Students' understanding of linear functions is extended to statistics, where they make scatter plots and use linear functions to model data. They solve linear equations and equations involving roots, and explore systems of linear equations. Additional topics include exponents, powers of ten, scientific notation, and irrational numbers. Students learn about transformations, and extend that understanding to an investigation of congruence and similarity. Other geometric concepts explored include the Pythagorean theorem, angle relationships, and volumes of cylinders, cones, and spheres.

LANGUAGE ARTS REQUIRED:

Course Title: **Language Arts 6**

Credits: Not applicable

Grades: 6

Prerequisites: None

Course Description: This course is facilitated online through Apex Learning. English 6 delivers instruction, practice, and review designed to build students' communication and reading comprehension skills. Reading comprehension lessons strengthen students' critical analysis skills as they study how nonfiction and literature can be used to share ideas. Writing lessons combine free-response exercises with drafting strategies and exemplars to help students communicate clearly and credibly in narrative, argumentative, and informational styles. To develop skills specific to public discourse, speaking and listening lessons guide students as they evaluate one another's speeches and adjust to new audiences and situations. In language lessons, students build foundational grammar skills they need to articulate their ideas and understand challenging words.

Course Title: **Language Arts 7**

Credits: Not applicable

Grades: 7

Prerequisites: Language Arts 6

Course Description: This course is facilitated online through Apex Learning. English 7 delivers instruction, practice, and review designed to build students' communication and reading comprehension skills. Reading comprehension lessons strengthen students' critical analysis skills as they study how nonfiction and literature can be used to share ideas. Writing lessons combine free-response exercises with drafting strategies and exemplars to help students communicate clearly and credibly in narrative, argumentative, and informational styles. To develop skills

specific to public discourse, speaking and listening lessons guide students as they evaluate one another's speeches and adjust to new audiences and situations. In language lessons, students build foundational grammar skills they need to articulate their ideas and understand challenging words.

Course Title: **Language Arts 8**

Credits: Not applicable

Grades: 8

Prerequisites: Language Arts 7

Course Description: This course is facilitated online through Apex Learning. English 8 delivers instruction, practice, and review designed to build students' communication and reading comprehension skills. Reading comprehension lessons strengthen students' critical analysis skills as they study how nonfiction and literature can be used to share ideas. Writing lessons combine free-response exercises with drafting strategies and exemplars to help students communicate clearly and credibly in narrative, argumentative, and informational styles. To develop skills specific to public discourse, speaking and listening lessons guide students as they evaluate one another's speeches and adjust to new audiences and situations. In language lessons, students build foundational grammar skills they need to articulate their ideas and understand challenging words.

SCIENCE REQUIRED:

Course Title: **Science 6**

Credits: Not applicable

Grades: 6

Prerequisites: None

Course Description: This course is facilitated online through Apex Learning. Middle School Grade 6 Science delivers instruction, practice, and review to help students develop scientific literacy, deepen conceptual understanding, and apply scientific practices. Students explore concepts such as the flow of energy and matter through both living and nonliving systems, including Earth's systems; Earth's weather and climate; the interaction between humans and the environment; the relationship between structure and function; and growth, development, and reproduction in organisms.

Course Title: **Science 7**

Credits: Not applicable

Grades: 7

Prerequisites: Science 6

Course Description: This course is facilitated online through Apex Learning. Middle School Grade 7 Science delivers instruction, practice, and review to help students develop scientific literacy, deepen conceptual understanding, and apply scientific practices. Students explore

concepts such as the structures and properties of matter; chemical reactions; the flow of energy through systems, including Earth's living and nonliving systems; and the history of Earth.

Course Title: **Science 8**

Credits: Not applicable

Grades: 8

Prerequisites: Science 7

Course Description: This course is facilitated online through Apex Learning. Middle School Grade 8 Science delivers instruction, practice, and review to help students develop scientific literacy, deepen conceptual understanding, and apply scientific practices. Students explore concepts such as waves and electromagnetic radiation, energy and forces on Earth and in space, genetics and natural selection, and engineering design.

SOCIAL STUDIES REQUIRED:

Course Title: **Social Studies 6**

Credits: Not applicable

Grades: 6

Prerequisites: None

Course Description: This course is facilitated online through Apex Learning. Middle School World History delivers instruction, practice, and review designed to build middle school students' knowledge of world history, from the Neolithic Revolution through the Middle Ages. By constantly honing their ability to analyze history, students build the depth of knowledge and higher-order thinking skills required to demonstrate their mastery when put to the test.

Course Title: **Social Studies 7**

Credits: Not applicable

Grades: 7

Prerequisites: Social Studies 6

Course Description: This course is facilitated online through Apex Learning. Middle School U.S. History delivers instruction, practice, and review designed to build middle school students' knowledge of U.S. history, from the peopling of North America through the era of Reconstruction. Students engage with the subject matter in an interactive, feedback-rich environment as they progress through standards-aligned content. By constantly honing their ability to analyze history, students build the depth of knowledge and higher-order thinking skills required to demonstrate their mastery when put to the test.

Course Title: **Social Studies 8**

Credits: Not applicable

Grades: 8

Prerequisites: Social Studies 7

Course Description: This course is facilitated online through Apex Learning. Middle School Civics delivers instruction, practice, and review designed to build middle school students' understanding of the political and governmental systems of the United States and the roles played by citizens. By honing their ability to analyze civic life, political practices, and government structures, students build the depth of knowledge and higher-order thinking skills required to demonstrate their mastery when put to the test.

ELECTIVES

Course Title: **Art 6**

Credits: Not applicable

Grades: 6

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. This is a single semester course. Students collaborate to create art. Students investigate how art can be personally significant while learning to be open to new artistic ideas, materials, methods, and creative approaches. In this course, students also explore the ways in which art equipment and materials can affect the environment. They study why and how artistic design can influence people, and they design art for a diverse population. Students also determine whether works of art successfully communicate their intended message. This course introduces three-dimensional art, and students compare two-dimensional and three-dimensional pieces before creating their own 3-D artwork. They will view art from around the world and determine what the works reveal about the values and lifestyles of the people depicted in the works. Finally, students learn the importance of preserving art and the ways in which to critique art.

Course Title: **Art 7**

Credits: Not applicable

Grades: 7

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. This is a single semester course. Students transition from exploratory art discovery to a more discipline-based approach. This new approach focuses on developing students' skills and techniques as well as content knowledge, while still allowing for exploration and individuality. Students have the opportunity to act as real artists through repeated sketching, concept development, and continued research and observation activities while they work with a variety of media. Art 7 includes a strong focus on independent, creative thinking and problem solving through project-based learning. This course is designed to cover a half year of instruction, but it can be completed at

each student's own pace. The project-based activities have dedicated, multi-day lessons to allow students time to sufficiently and successfully develop their ideas and artwork.

Course Title: **Art 8**

Credits: Not applicable

Grades: 8

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. This is a single semester course. Students will be introduced to design elements and principles, as well as contemporary art-making processes and the act of conceptual thinking. The Art 8 curriculum is designed to cover a half year of instruction, but can be completed at each student's own pace.

Course Title: **Physical Education 6**

Credits: Not applicable

Grades: 6

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. This is a single semester course. This course provides a complete physical education experience, allowing students to learn the basics of living a healthy life and the benefits of being active as often as possible. Students begin by learning about the 36 hours of organized, supervised physical activity required for the course. They also learn how to document their activity within a PE Log. Next, students move into the content, studying topics ranging from health, nutrition, journaling, and safety to new, fun, and challenging activities and exercise techniques. Before attempting each activity, students receive instruction on the basic elements and the proper execution of each movement so that they can get the most benefits from the exercise. Regardless of the activity the student is asked to do within a given day, they are encouraged to get up and move for a certain amount of time within each lesson. This expectation helps them to create a routine-like schedule. Students can be active by performing different exercises and engaging in different activities.

Course Title: **Physical Education 7**

Credits: Not applicable

Grades: 7

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. This is a single semester course. This course offers a comprehensive physical education course for students to assist them in creating a healthy lifestyle and living an active life. Students begin by learning about the required 72 hours of supervised, physical activity and how to document their activity in a PE Log. Students can also track their activity by using a Movband, which is a physical fitness step tracker. Students then move through the course content, which ranges from topics about

healthy living and eating to a variety of fun and challenging activities and exercise techniques. Before attempting each activity, students receive instruction on the basic elements and the proper execution of each movement so that they can get the most benefits from the exercise. Regardless of the activity the student is asked to do within a given day, they are encouraged to get up and move for a certain amount of time within each lesson. This expectation helps them to create a routine-like schedule. Students can be active by performing different exercises and engaging in different activities.

Course Title: **Physical Education 8**

Credits: Not applicable

Grades: 8

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. This is a single semester course. This course offers a complete physical education experience for students, helping them learn about and implement healthy habits. Whether it is with nutrition, exercise, or general life choices, students are educated on the multiple facets of creating a healthy lifestyle. Students begin by learning about the required 72 hours of supervised, physical activity and how to document their activity in a PE Log. Students can also track their activity by using a Moveband fitness tracker. Next, students begin to work through the course content, which ranges from topics about the F.I.T.T. principle and other physical fitness components to various fun and challenging activities and exercise techniques. Before attempting each activity, students receive instruction on the basic elements and the proper execution of each movement so that they can get the most benefits from the exercise. Regardless of the activity the student is asked to do within a given day, they are encouraged to get up and move for a certain amount of time within each lesson. Students can be active by performing different exercises and engaging in different activities.

Course Title: **Investigating Careers**

Credits: Not applicable

Grades: 6-8

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. This is a two semester course. In this course, students are introduced to various aspects of the workplace and are given guidance in career preparation. This includes guidance toward becoming work-ready, for job acquisition skills, for continued training for job advancement, and for work-life balance. Topics include self-evaluation for career choice, the labor market, personal and professional development, getting a first job, personal characteristics for work, and making decisions. The importance of teamwork and leadership are a main emphasis in the course. The course includes instruction on using online tools to review and assess interest in various careers.

Course Title: **Learning in a Digital World (Digital Citizenship)**

Credits: Not applicable

Grades: 6-8

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. This is a single semester course. The digital world seems to change every day, and touch more of our lives. We use technology to communicate with friends and family, find never-ending entertainment options, follow our favorite sports teams and fashion trends, and do our schoolwork. In Learning in a Digital World: Strategies for Success you will get the tools to navigate this exciting and always changing 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 Title: **Digital Art and Design**

Credits: Not applicable

Grades: 6-8

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. This is a single semester course. There are so many different types of art in this world fine art, classical art, visual art but the impact of digital art and design is all around us, often in ways that you probably aren't even aware of! After taking Digital Art and Design, you'll enjoy a deeper understanding and appreciation for all things digital as you explore this special genre of art found in everything from advertising to animation to photography and beyond. 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. Additionally, you will actually create your own digital art and make it come alive. Give your creative side a boost with this Digital Art and Design course!

Course Title: **Game Design**

Credits: Not applicable

Grades: 6-8

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. This is a single semester course. We all love to play video games but have you ever wanted to build your own? If you are interested in a career in technology but also want a creative outlet, Game Design might be the field for you. Learn how to build a game from the ground up, an interactive and hands-on

course that will teach you all the ins and outs of making your own game. You will learn the importance of game structure and discover what makes a game fun, challenging, and interesting to players just like you. You will also have the opportunity to explore the design and creative process involved in game creation, learn block-based programs, and experiment with character and story development. As a bonus, you will leave the course with a digital portfolio of everything you created in class.

Course Title: **Photography**

Credits: Not applicable

Grades: 6-8

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. This is a single semester course. What do you think makes a photograph great? Do you want to take fun, interesting photographs of people, places, and pets to post for your friends or hang on your wall? Photo images are everywhere today. Sometimes we see hundreds in one day. But it's obvious that not all photographs are the same – some are definitely cooler than others. In *Photography: Drawing with Light*, you'll learn how to take those 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. Once you get the hang of this process, you'll be taking photos that will amaze your friends and have them wondering how you do it!

BANGOR CAREER ACADEMY
K-5TH GRADE COURSES

Course Title: **Language Arts - K**

Credits: Not applicable

Grades: K

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. English Language Arts K encompasses reading, writing, speaking, spelling, and listening skills for students who are emerging learners. This course places a heavy emphasis on the alphabet, as students learn letter names and both uppercase and lowercase letters. Students also learn letter sounds and how to articulate and blend those sounds. English Language Arts K focuses on building reading skills through the use of high-frequency sight words—common prepositions, nouns, verbs, and adjectives. Through grade-level appropriate readings, students explore story elements and the ways in which pictures relate to text. They also learn to summarize a text and to compare and contrast characters, events, and ideas within texts. This course teaches foundational grammar and writing skills, including proper capitalization, spacing between words, and sentence punctuation. Students learn to print words and write complete sentences. Finally, interactive activities throughout the academic year help students develop their speaking and listening skills as well.

Course Title: **Mathematics - K**

Credits: Not applicable

Grades: K

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. In Mathematics K, students explore the world of mathematics all around them. Students begin to develop foundational mathematics skills such as number identification and recognition and rote counting to 100 by memory. They learn the difference between more than and less than and explore the ways in which numbers are broken down into various components. Students compare measurements, such as longer and shorter and heavier and lighter. They begin to develop problem-solving skills as they engage with simple addition and subtraction equations and word problems. Finally, students are introduced to basic geometry and learn the names and basic attributes of shapes.

Course Title: **Science - K**

Credits: Not applicable

Grades: K

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Science K introduces emerging learners to the knowledge and skills that will help them discover and understand the natural world around them. In this course, students learn to formulate questions, to predict, and to investigate. They use basic scientific tools, such as a magnifying glass, a ruler, and a thermometer, to make observations and draw on those observations to communicate their findings. They learn to use their five senses as observational tools as well. They deploy their observational skills to describe animals and plants, their basic needs for survival, and their environments. Students discover the effect of sunlight on Earth's surfaces and the difference between sun and shade. Students explore weather types, weather patterns, and seasonal changes. They also examine the characteristics of force, including the difference between a push and a pull.

Course Title: **Social Studies - K**

Credits: Not applicable

Grades: K

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Social Studies K introduces emerging learners to the knowledge and skills that help them to become active and valued participants in their community. Students learn the importance of rules and regulations in guiding community behavior and the role of government and other institutions. They explore the concept of good citizenship and values such as respect, democracy, cooperation, and equality in the context of the family and the local community. This course lays the foundation for understanding the past by teaching the importance of a sequence of events, introducing historical figures, and developing students' skill in distinguishing fact and opinion. Finally, students learn about the world around them, including how geography influences society, how maps represent places, and how communities rely on trade in goods and services.

Course Title: **Art - K**

Credits: Not applicable

Grades: K

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. This course allows the Kindergarten student to show their creative side in the form of musical expression, visual arts, or dramatic play. Students are given opportunities to express themselves in different manners, and they begin learning to appreciate the artwork of others.

Course Title: **Physical Education - K**

Credits: Not applicable

Grades:

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Physical Education K offers students a comprehensive physical education course where the focus is to get students motivated to be active. Students begin by learning about the course requirement of 36 hours of organized, supervised physical activity. They also learn to document their activity in their PE Log. Next, students learn about different aspects of physical education, including different exercise and activity techniques in addition to information on leading a healthier lifestyle that allows them to be more physically fit. Topics such as safety, following direction, friendships with peers, and basic health and nutrition are reviewed. Regardless of the content covered in the daily lesson, students are expected to get up and move every day.

Course Title: **Language Arts - 1**

Credits: Not applicable

Grades: 1

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. English Language Arts 1 focuses on developing reading, writing, spelling, speaking, and listening skills. In this course, students begin to understand that spoken and written language can be broken into phonemes. They use rhyming, blending, and segmenting to develop the foundation needed to become an emergent reader. Students read prose, poetry, and informational texts for comprehension. They learn to interpret the ways in which stories and poems appeal to the senses and to identify the main topic and key ideas within texts. Students increase their vocabulary by learning to use morphemic and contextual analysis to determine the meaning of unknown words. Students learn to spell new words using various spelling rules. In English Language Arts 1, students hone their writing skills by practicing grammar rules for noun usage, personal possessive and indefinite pronouns, verb tenses, capitalization, commas, and end punctuation. In doing so, they learn to produce and expand sentences and to write opinion pieces, informational pieces, and narratives. This year, students begin learning how to research information and how to use their research to answer questions. They identify and use various parts of a book, such as headings and the table of contents. They also use digital tools to publish their writing.

Course Title: **Mathematics - 1**

Credits: Not applicable

Grades: 1

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. In Mathematics 1, students begin to learn mathematics in a more formal way. They focus on rote counting to 120 and practice reading and writing these numbers. In addition to strengthening their addition and subtraction skills, they compare two-digit numbers using place values and the comparison

symbols for greater than, less than, and equal to. Students measure lengths and use measurements to compare the lengths of multiple objects using nonstandard measuring and units. They strengthen their geometry skills by drawing two-dimensional and three-dimensional shapes, and they explore fractions by dividing those shapes into halves and quarters. Students also organize, represent, and interpret data in pictures, tables, and charts. Additionally, they tell and write times in hours and half-hours.

Course Title: **Science - 1**

Credits: Not applicable

Grades: 1

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Science 1 extends students' exploration of the natural world. Along the way, they practice making predictions and observations, experimenting, and using scientific tools and problem-solving skills. Students investigate ecosystems and habitats, identifying the five basic needs of all living things, the importance of natural resources, and the interactions of human beings and the environment. They examine the agricultural system and its products and by-products. This course also introduces the water cycle and the Earth as a body in space. Students observe matter and describe its properties and states, and they discover the properties of light and sound. Study of force and motion enable them to define the terms and explain the effect of different amounts of force and also how moving objects stop. Finally, students develop their ability to distinguish fact from opinion and recognize the relation of cause and effect.

Course Title: **Social Studies - 1**

Credits: Not applicable

Grades: 1

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Social Studies 1 leads students beyond their local community to consider their place in their state, the nation, and the world. They explore the function and characteristics of government in the United States, including the role of rules and laws and the rights and responsibilities of citizens. Students also learn how to ask questions and gather information to understand history. The course focuses on developing students' knowledge of the interplay between the physical world and human societies, as they learn basic geography skills, such as map reading, and examine the impact of the environment on how and where people live and how regional variations drive trade in both goods and services. Finally, students build their understanding of good citizenship by identifying ways to contribute to the community and avoid conflict and by interacting respectfully with others.

Course Title: **Art - 1**

Credits: Not applicable

Grades: 1

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. In Art 1, students explore the roles of both groups of people. Students learn how daily life can be used as inspiration, and how it can be depicted through artwork. They categorize artworks according to the subject matter each is portraying. Additionally, students learn to recognize the elements of art and the principles of design, and they rate artwork. Students explore the ways in which artwork is created outside of the school setting, and they discover that art is made for different reasons.

Course Title: **Physical Education - 1**

Credits: Not applicable

Grades: 1

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Physical Education 1 offers students a complete physical education experience where students are encouraged to live healthy lifestyles through good food choices and daily activity. The course begins by introducing students to the requirements for completion, which include 36 hours of organized, supervised physical activity. Students document all activity within their PE Logs. From there, students learn about a number of different elements of a healthy lifestyle, including safety, working with others, responsibility, stretching, healthy versus unhealthy foods, and warming-up and cooling-down. Regardless of the activity students are asked to do on a given day, they are expected to get up and move for a certain amount of time within each lesson. This expectation encourages students to be active every day by creating a routine.

Course Title: **Language Arts - 2**

Credits: Not applicable

Grades: 2

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. English Language Arts 2 central concepts are reading, writing, spelling, speaking, and listening. This year, students begin to transition from learning to read to reading to learn. In this course, students continue to develop their phonemic awareness by learning to recognize word families, word origins, and irregularly spelled words. They also begin to use linking words to connect opinions and reasons and time-order words to signal the order of events. While reading, students work to distinguish fact from opinion, decipher an author's reason, and identify the main topic of a multi-paragraph text. Students sample multiple genres of literature, including fiction, nonfiction, poetry, folktales, and fables, while exploring story elements such as plot, setting, characterization, and the author's point of view. They also learn to distinguish between the main idea and the theme of a story.

Students develop their writing skills by composing narrative, persuasive, and informative essays, as well as creative writing pieces. Additionally, they practice their research skills by finding facts in multiple sources and using them to produce a science report. Students use a dictionary to reinforce phonetic punctuation and spelling and to identify words with multiple meanings.

Course Title: **Mathematics - 2**

Credits: Not applicable

Grades: 2

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. In Mathematics 2, students begin to develop the skills to solve problems mentally and to explain how they solved a problem aloud or through writing. They count to 1,000 and identify even and odd numbers. Students discover multiple strategies for adding and subtracting numbers and determine which strategies work best for various problem types. They work with number lines and use them to represent whole numbers and their sums and differences. In this course, students expand their knowledge of place value to include thousands and use this concept to compare numbers. They use standard units of measurement to express the length of objects in inches, feet, centimeters, and meters. Mathematics 2 introduces digital and analog time and presents students with word problems involving money. In addition to learning monetary values, students also learn to use the dollar and cent symbols appropriately. Students also deepen their understanding of geometric shapes while exploring fractions by dividing shapes into halves, thirds, and fourths. They are introduced to new ways of representing data, including line plots, picture graphs, and bar graphs.

Course Title: **Science - 2**

Credits: Not applicable

Grades: 2

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Science 2 encourages students to make sense of the world around them by observing and experimenting. Through focused readings and hands-on activities, students explore matter, energy, and physical and chemical changes. They study interdependence in ecosystems, such as the role of bees in pollination and the use and conservation of natural resources. They look beyond food production to the broader purposes of agriculture and recognize the importance of local farms to human society. Students examine the water cycle—including evaporation and condensation—and the life cycles of such living things as frogs, butterflies, and plants. They research topics and formulate questions, make predictions, and then use scientific tools to observe and measure their experiments. By distinguishing fact from opinion and recognizing patterns and cause and effect, students develop the ability to make inferences and communicate their findings.

Course Title: **Social Studies - 2**

Credits: Not applicable

Grades: 2

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Social Studies 2 empowers students to become productive citizens by developing their knowledge and skills in civics, history, geography, and economics. They deepen their understanding of the U.S. government by explaining the role of the three branches of government and of the U.S. Constitution. Students extend their knowledge of U.S. history to recognize the impact of important figures and movements of the past, and they begin to think like historians by identifying reliable sources, crafting compelling questions, distinguishing fact and opinion, and using timelines to structure series of events. The course highlights the role of international relations, including both alliances and international trade, as well as the importance of geography and regional variations in resources and production. Finally, students learn core concepts of economics, including supply and demand, scarcity, and cost and benefits, as well as the functions of banks, and relate these concepts to individuals and communities.

Course Title: **Art - 2**

Credits: Not applicable

Grades: 2

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. In Art 2, students explore artistic expression of their own personal interests. They learn to organize art into categories and to identify the various methods and materials used to create art. Throughout this course, students expand their artistic vocabulary, using it to describe the works they are studying. They explore the ways in which color can represent mood in artworks and create their own works to express their mood. While learning safe procedures for working with artistic materials, students experiment with mixing colors. In addition to creating artworks that depicts family, school, and community life, students also gain familiarity with works from European and Asian cultures.

Course Title: **Physical Education - 2**

Credits: Not applicable

Grades: 2

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Physical Education 2 provides students with a comprehensive physical education course. Within this course, students are encouraged to discover the ways to live a healthy lifestyle, including better food choices and consistent activity. Students begin the course by learning about the required 36 hours of organized, supervised physical activity. They also learn to document their activity within a PE

Log. The course then moves into different aspects of healthy living, discussing components of health and safety, nutrition, working with others, following directions, and a number of new and different exercises, activities, and techniques. Regardless of the activity the student is asked to do within a given day, they are encouraged to get up and move for a certain amount of time within each lesson. This expectation helps them to create a routine-like schedule.

Course Title: **Language Arts - 3**

Credits: Not applicable

Grades: 3

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. English Language Arts 3 focuses on expanding students' reading, writing, spelling, speaking, and listening skills. In this course, students read more complex texts and write to express themselves with greater sophistication. They practice reading at a natural pace while using intonation and expression appropriately. While reading, they interpret texts in more complex ways, by identifying cause and effect, determining tone and mood, and distinguishing shades of meaning in figurative language. This course introduces students to new genres, including opinion pieces, biographies, and blogs, while they continue to work with narratives, fiction, and informational texts. An emphasis is placed on grammar, punctuation, and spelling as students explore the functions of nouns, pronouns, verbs, adjectives, and adverbs; categorize nouns; explain the differences between various verb tenses; write simple, complex, and compound sentences; and use capitalization, commas, and quotation marks correctly. They learn the spelling of words with various prefixes and suffixes; regular and irregular nouns, verbs, and adjectives; and contractions, compound words, homophones, and words with various vowel sounds. Students develop their speaking and listening skills by planning, writing, and delivering an oral presentation and by creating visual aids to accompany the presentation. English Language Arts 3 also introduces students to new forms of writing, such as scripts, autobiographies, and outlines. They practice drafting and revising their writing through the development of journal entries, short stories, opinion pieces, and narratives. Students expand their research skills by learning to take notes while researching and to organize their notes into categories. They also gather information using both print and electronic sources.

Course Title: **Mathematics - 3**

Credits: Not applicable

Grades: 3

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Students in Mathematics 3 focus on multiplication and division, as this course aims to build strong foundational skills in these areas. Students explore the relationship between multiplication and

division and practice using the order of operations to solve problems, including one- and two-step word problems. In addition to using place value to perform multidigit arithmetic, students round numbers to the nearest ten or hundred. They refine their mathematics skills in relation to money by making change using a combination of bills and coins. Mathematics 3 presents area and perimeter to students as they explore linear and area measurements. They also work with fractions as numbers in this course, representing them on number lines, generating equivalent fractions, and comparing fractions with the same numerator and denominator. Finally, students explore the ways in which various types of data can be displayed.

Course Title: **Science - 3**

Credits: Not applicable

Grades: 3

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Science 3 guides students on an exploration of the natural world, its animals, its plants, and its terrain. They learn how clouds form, what causes the cycles of seasons and of day and night on Earth, and that light and sound are actually energy. Students examine the Earth's eight major biomes and identify how adaptations help plants and animals to survive varying conditions. They become junior meteorologists, able to explain weather and climate and to use weather instruments and knowledge of patterns to observe and predict the weather. Students recognize the information fossils can provide about the Earth's past and use geologic time scales to identify the eras when fossilized organisms lived. They explain how chemical reactions can change the properties of matter, and they investigate energy, magnetism, and electricity. Finally, students research topics and formulate questions, make predictions and observations, experiment and measure using scientific tools, and draw inferences and identify patterns based on their scientific inquiries.

Course Title: **Social Studies - 3**

Credits: Not applicable

Grades: 3

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Social Studies 3 focuses on the United States, including its government and its laws. Students are encouraged to think about what it means to be productive, responsible citizens of both the nation and their own local communities. To support their learning about U.S. history and differing cultures and perspectives, students develop and research compelling questions on historical topics, work with credible sources, and distinguish between fact and opinion. Additionally, they learn to evaluate the validity of sources, especially websites. Students develop presentation skills that include constructing arguments to support their opinions and using visual aids to add interest to oral reports. They also expand their map-reading skills and learn the fundamentals of financial

literacy. In addition to studying the United States, students examine the geography, culture, history, government, and economy of three other world communities: Canada, Mexico, and India.

Course Title: **Art - 3**

Credits: Not applicable

Grades: 3

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. In Art 3, students create, experiment, revise, present, analyze, and respond to artwork. Students learn the importance of presenting their art and the necessary components to consider when doing so, such as the display space, artwork preparation, and display limitations. Students revise and enhance their art in order to tell a better visual story. They also learn how to ask important questions regarding the imagery and materials an artist uses to better understand the message of the work. Art 3 gives students the observation tools they need to perceive their world and create art based on what they see and how they feel.

Course Title: **Physical Education - 3**

Credits: Not applicable

Grades: 3

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Physical Education 3 offers a comprehensive physical education course where students learn how to live a healthy lifestyle and are motivated to be active. Students begin by learning about the required 36 hours of organized, supervised physical activity required in the course and how to document their activity within a PE Log. After students learn the guidelines, they move into the course content, which covers topics ranging from safety, rules, and etiquette to various new, fun, and challenging activities and exercise techniques. Students learn the basic elements of each new activity, along with the proper way to execute the motions so that they can get the most benefits from the exercise. Regardless of the activity the student is asked to do within a given day, they are encouraged to get up and move for a certain amount of time within each lesson.

Course Title: **Language Arts - 4**

Credits: Not applicable

Grades: 4

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Students in English Language Arts 4 focuses on expanding their reading, writing, spelling, speaking, and listening skills, with a heavy emphasis on solidifying their writing skills. They use narrative, descriptive, opinion, persuasive, and informative pieces to learn to state ideas, facts, and opinions clearly

while correctly using introduction, body, and conclusion paragraphs. Students create a plan for writing, revise and edit their work, and improve their writing using feedback from an adult. Through their writing, they continue to master the conventions of English grammar, including quotations, relative pronouns, progressive verb tenses, modal auxiliaries, prepositional phrases, antecedents, coordinating conjunctions, compound sentences, capitalization, and punctuation, while avoiding sentence fragments and run-on sentences. They learn to spell words with a wide variety of prefixes and suffixes in addition to homophones, possessives, compound words, and words with silent letters. While reading, students identify, describe, and analyze story elements and compare and contrast these elements in stories, myths, and literature from various cultures. Students further develop their research skills by conducting short research projects, taking notes during research, and creating bibliographies. They develop more concrete speaking skills by creating and delivering presentations on various topics. In addition, students create audio recordings and visual aids to supplement their presentations.

Course Title: **Mathematics - 4**

Credits: Not applicable

Grades: 4

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. In Mathematics 4, students refine their skills in the areas of place value, measurement, geometry, fractions, and decimals. They use the order of operations to solve problems with whole numbers up to 1 million, and they explore factors and multiples ranging from 1 to 100. Students use equations, arrays, and area models to explain multiplication calculations. They compare multidigit whole numbers, fractions, and decimals using the symbols for greater than, less than, and equal to. Students practice converting measurements, such as feet to inches, and they use their understanding of size to determine whether measurements are reasonable answers to problems. Mathematics 4 introduces students to the protractor, which they use to measure angles in whole number degrees. Students learn to identify right triangles, and they sketch angles, lines, segments, and rays. Students look closely at fractions and decimals in this course by writing equivalent fractions, ordering fractions from least to greatest, comparing fractions with different numerators and denominators, and writing fractions as decimals and vice versa.

Course Title: **Science - 4**

Credits: Not applicable

Grades: 4

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Science 4 lays a foundation for future excellence in the STEM fields by introducing technology and engineering concepts, such as simple and complex machines and the steps of the engineering design process.

This course encourages students to become innovative problem-solvers equipped with the skills and knowledge necessary to address twenty-first century issues. Students explore the technical and sometimes surprising facts behind the things they see and experience every day. They expand their knowledge and understanding of topics in the areas of physics, chemistry, Earth science, ecology, biology, and space science. Students investigate genetics and the physical characteristics of living things, ecosystems and extinction, agriculture and sustainable resources, and pollution and recycling. They get to know the Earth's landforms and the types of rocks and soil, and extend their learning beyond the Earth to the solar system and the Milky Way. Finally, students encounter important concepts in physics, such as the types and properties of waves, and in chemistry, such as atoms, molecules, and the conservation of mass.

Course Title: **Social Studies - 4**

Credits: Not applicable

Grades: 4

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Social Studies 4 introduces students to critical analysis, as they develop more detailed knowledge of U.S. and world history and the influence of individual perspectives on documents and events. Students assess and use a wide variety of primary and secondary sources to research compelling questions and present interpretations and arguments in both written and oral form, supporting their positions with details drawn from those reliable sources. They learn the rights and responsibilities of citizens and how people and groups can work together to accomplish common goals. Students also explore how regional differences in physical environment and culture affect how people live and work. This course fosters a command of the concepts and tools of geography, such as latitude, longitude, maps of various kinds, and scales. Students also gain an understanding of core aspects of economics, including resources, production, consumption, and international trade.

Course Title: **Art - 4**

Credits: Not applicable

Grades: 4

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. In Art 4, students begin thinking about the meaning behind works of art. They work both independently and collaboratively to brainstorm ideas for visual art, set artistic goals, and create meaningful artistic pieces. Students experiment with oil pastels and nontraditional art-making approaches and materials. They explore how regional influences can inspire an artist and create their own art based on regional inspirations. Students observe the various ways in which art can be displayed, where it can be displayed, and how its placement can impact the artist's message. Students compare and contrast works from different cultures and create art to reflect their own cultural

traditions. They also learn to use context to interpret artwork and infer information about the time, place, and culture in which works were created.

Course Title: Physical Education - 4

Credits: Not applicable

Grades: 4

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Physical Education 4 provides students with a complete physical education experience where they not only learn how to live healthier lifestyles, but they are also taught and encouraged to be active every day. The course begins with an introduction to the requirements for completing the course successfully. Students must participate in, and document, at least 36 hours of organized, supervised physical activity within a PE Log. Then, students move into the content, which ranges in topics from the five components of physical fitness and safety, rules, and etiquette to various new, fun, and challenging activities and exercise techniques. Before attempting each activity, students receive instruction on the basic elements and the proper execution of each movement so that they can get the most benefits from the exercise. Regardless of the activity the student is asked to do within a given day, they are encouraged to get up and move for a certain amount of time within each lesson. This expectation helps them to create a routine-like schedule.

Course Title: Language Arts - 5

Credits: Not applicable

Grades: 5

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. In English Language Arts 5, students solidify their foundational skills in reading, writing, spelling, speaking, and listening. Students read a variety of texts this year, including fiction, nonfiction, and informational texts. They identify the author's purpose in multiple forms of writing, such as descriptive, expository, technical, persuasive, and narrative passages. Through these texts, they learn to make inferences and analyze multiple accounts of the same event. They also identify, interpret, and compare similes, metaphors, and idioms used in writing and learn to draw a plot diagram and to identify common themes in literature. This year, students write a five-paragraph essay and an effective thesis statement. They follow the writing process to develop essays, create outlines to organize their ideas, and revise and improve their original draft. Students also write a persuasive letter, a speech, and a script. This course teaches and reinforces spelling rules, such as i before e, while also focusing on the spelling of words ending in a silent e, commonly misspelled words, and words with multiple syllables. Students sharpen their research skills by learning to use notecards for research, gathering information about the same topic from multiple sources, and understanding plagiarism and the importance of writing in their own words. They also practice

citing sources by creating a bibliography. Students enhance their presentation skills by reporting on a text or topic, telling a story, retelling an experience, or presenting an opinion in an organized way while using facts and details to support the main idea.

Course Title: **Mathematics - 5**

Credits: Not applicable

Grades: 5

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Mathematics 5 focuses on developing students' math skills and problem-solving strategies. Problems and activities are designed to get students reasoning abstractly and quantitatively, constructing arguments, and modeling with mathematics. Students add, subtract, and multiply fractions, divide fractions by whole numbers, and divide whole numbers by fractions. They perform multiple operations with decimals in addition to comparing, ordering, and rounding them. They use exponents to denote powers of 10. Students are introduced to volume and how to calculate it and classify two-dimensional shapes into categories. They also graph data on a plot line and the coordinate plane, using graphs to solve real-world and mathematical problems.

Course Title: **Science - 5**

Credits: Not applicable

Grades: 5

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Science 5 puts the emphasis on doing science. Students build their knowledge by crafting models, conducting experiments, creating terrariums, and making electromagnets. They learn about plant and animal cells and their functions, photosynthesis, and the roles of producers, consumers, and decomposers in an ecosystem. Students explore the global water cycle, the negative impacts of weather, and the relationship between weather and climate. They deepen their understanding of their home planet by investigating landforms, volcanic activity, the layers of the Earth's atmosphere and geosphere, the tilt of the Earth's axis, the impacts of its revolution around the Sun, and the Sun's role as source of energy for life on Earth. Students are introduced to elements as the basic substances of all matter and the relationship between matter and particles; they also encounter such core concepts of physics as energy transformation, gravitation, and Newton's first and second laws of motion. They design simple and parallel circuits and use the engineering design process to generate solutions to real-world problems. Finally, they conduct research, formulate questions, make predictions and observations, conduct fair tests using the scientific method, record their findings, and draw conclusions for future investigation.

Course Title: **Social Studies - 5**

Credits: Not applicable

Grades: 5

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Social Studies 5 puts American history front and center, as students learn about the Native American civilizations of the Americas, the discovery of the New World by European explorers, the founding of the United States, westward expansion, and the coming of the Industrial Revolution. Students leverage research skills to analyze historical events and documents, and they present their findings using arguments based on reliable sources with supporting facts. They refine their ability to distinguish fact from opinion in the context of historical investigation. Students also broaden their understanding of government by recognizing how the system of checks and balances works at both national and state levels, and they identify and interpret important songs and symbols of the United States. Civic responsibility is woven throughout the curriculum, and students recognize the value of public service and the traits of good leaders. Social Studies 5 also explores the themes, tools, and techniques of geography. Students learn how human interaction with the environment has caused change, both beneficial and detrimental, in the past and in the present. Finally, they learn how the U.S. economy functions, including the role of government and multinational organizations in domestic and international trade.

Course Title: **Art - 5**

Credits: Not applicable

Grades: 5

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Art 5 gives students opportunities to work with a wide range of materials, from metal to watercolors, all while further developing their techniques and skills as artists through repeated practice. Students learn to analyze, interpret, and talk about art with their peers as well as other admirers of art. They are introduced to the idea of cultural associations and perceptions and are asked to look at imagery critically. In doing so, students learn to decide how the details of their own work could be interpreted by others. Throughout this course, students create artwork that will bring attention to topics they find important. Their work will illustrate their awareness of their surroundings and will show their developing artistic abilities.

Course Title: **Physical Education - 5**

Credits: Not applicable

Grades: 5

Prerequisites: None

Course Description: This course is facilitated online through SchoolsPLP. Physical Education 5 offers a comprehensive physical education course where students are taught the basics for healthy

and active living. Students begin by learning about the 36 hours of organized, supervised physical activity required for the course and how to document their activity in a PE Log. Next, students begin to engage with the content, which includes topics about safety and journaling in addition to new, fun, and challenging activities and exercise techniques. Before attempting each activity, students receive instruction on the basic elements and the proper execution of each movement so that they can get the most benefits from the exercise. Regardless of the activity the student is asked to do within a given day, they are encouraged to get up and move for a certain amount of time within each lesson.

