

# ENGLISH

## English Grade 9

Prerequisite-none  
Required

1 Credit  
Full Year

Students will study four major areas. These include, but are not limited to, the basic elements of the short story with a focus on comprehension and vocabulary, a novel, non-fiction with research, and drama. Students will need to understand how to conduct basic research, organize thoughts effectively, and understand basic components of proper grammar and sentence structure.

## English Grade 10

Prerequisite-English 9  
Required

1 Credit  
Full Year

Students will review and expand upon the literary genre introduced in grade 9, with the inclusion of basic composition and review of the writing process through a writer's workshop. Listening, speaking, critical thinking, and reading comprehension will be a part of the course as students prepare for the PSATs.

## English Grade 11

Prerequisite-English 10  
Required or Honors English/English 101 Comp through EMCC

1 Credit  
Full Year

Students will receive a concentrated study of American Literature, which includes novels, short stories and poems by American authors. Emphasis is placed on the literary styles of authors and the historical background that influenced the authors' styles and content. Writing will focus on the essay answer and critical analysis writing. Students will receive PSAT and SAT preparation information.

## English Grade 12

Prerequisite-English 11  
Required or Advanced Honors English and Oral Communications through EMCC

1 Credit  
Full Year

The students will read works by British authors and study their influence on the development of American literature. Masterpieces in world literature are introduced with thematic study of other cultures. Emphasis in composition is on the development of a writing style with control over the essay forms required by post-secondary institutions. The construction of the research paper is reviewed along with a grammar study. Vocabulary study and outside reading will also be part of the course.

## **SPE 101: Public Speaking**

Grade 11

Prerequisite-English 10 with a grade of 90 or above **or** with special permission, WP Accuplacer score > 6  
Elective

1 high school credit/3 college credits through Eastern Maine Community College  
Full Year

Students will be instructed and gain experience in preparation and delivery of speeches within a public setting and group discussion. Emphasis is on research, preparation, delivery, and evaluation of informative, persuasive, and special occasion public speaking. Upon completion, students should be able to prepare and deliver well-organized speeches and participate in group discussions. This course is offered as a concurrent enrollment with Eastern Maine Community College. This course will follow Honors English, which will be completed for the first semester.

## **English 101: College Composition**

Grade 12

Prerequisite-English 11 with a grade of 90 or above **or** with special permission, WP Accuplacer score > 6  
Elective

1 high school credit/3 college credits through Eastern Maine Community College  
Full Year

This course emphasizes rhetorical principles, accuracy of expressions, organization, and longer essays in order to help students think logically and write clearly for a number of tasks. In addition, students prepare a research paper. This course is offered as a concurrent enrollment with Eastern Maine Community College. This course will follow Honors English, which will be completed for the first semester.

## **Contemporary Literature**

Grades 11-12

Prerequisite-English 10  
Elective

1 Credit  
Full Year

Students will read and respond to various literary works and genres (novels, short stories, poems, and plays) written in the post-modern era, 1945 to the present. These works will be primarily chosen from American and British authors but works outside the traditional English-speaking canon will be represented as well. Emphasis will be placed on the literary styles and of the authors and the historical influences that have shaped the post-modern world and the human response to it.

## **Mythology**

Grades 10-12  
Prerequisite-English 9

1 Credit  
Full Year

Mythology is a survey of ancient Greek, Hebrew, and Roman stories about heroes, gods, and the universe, and illustrates the influence of these myths and legends on Western Art, literature, and culture. Fun and dynamic, this course looks at the ancient world in relation to timeless questions that even the modern world grapples with; such as what is deity? What is a hero? What is a human being? What is myth? What is history? Why are myths told? How does recollection of past societies and belief systems affect the way people live in the twenty first century?

## **Film Studies**

Grade 10-12  
Prerequisite-English 9  
Elective

1 Credit  
Full Year

Welcome to film studies! As a student of this course, you will expand your understanding and appreciation of the art of movies through a yearlong study of the historical, technical, literary, and social aspects of filmmaking. We will learn how the medium of film started, how movies are made, how they are written, and how they are directed and acted. All concepts will be illustrated through film clips from a wide variety of movies past and present. Throughout this process we will also view, analyze, and discuss several complete films representing the highest achievement of the art form.

## **Journalism/Student Publications I and II**

Grade 10-12  
Prerequisite-English 9  
Elective

1 Credit  
Full Year

This is a year-long course designed to teach students the rudiments of journalistic theory, practice, and ethics. Students will learn to generate, write and edit stories necessary to produce a weekly newspaper column, "The Wolverine Times". In addition to writing articles, students will design computer-generated layouts as well as meet all predetermined and editorial deadlines. Motivation, responsibility, independence, and self-direction are essential characteristics for a student who enrolls in this course.

## Career Exploration English

Grades 9-12

Prerequisite – English 9

Elective

1 Credit

Full Year

Students will learn how to create a resume and conduct proper research into colleges and careers. Students will also complete career interest inventories, design cover letters, practice college and job interviews, fill out job and college applications, and develop a career portfolio.

## Connections

Grades 10-12

Prerequisite--English 9

Elective

1 Credit

Full Year

Using genealogy as an instructional platform, students will learn how to make connections between academic disciplines, historical periods, world cultures, language, and literature by conducting research based upon family history, family heritage, and local history over the course of the academic year. The students' workload will consist of mastering basic research tools and computer-based applications, commenting upon their research findings, both orally and in writing, and supplying documented support for their assertions and findings. Various learning-based projects (i.e.: art, culinary, community-based) will be assigned.

# FOREIGN LANGUAGES

Grades 9-12

Elective

1 Credit

Full Year

Foreign language courses are offered through Rosetta Stone, which is an online individual computer class. Students complete the course individually in a class setting and are graded on their progress. Courses offered include, but are not limited to, French, Spanish, German, Italian, Japanese, and Korean. If signing up for a foreign language class, please refer to it as Rosetta Stone with your language of choice.

We **highly** recommend Spanish or French, as they are the most popular languages in our geographic area. Spanish is fast becoming America's second language. In addition, our Rosetta Stone teacher is fluent in Spanish and can offer language support.

# SOCIAL STUDIES

## World Studies

Grade 9  
Required

1 Credit  
Full Year

This course will combine World Cultures, Ancient Civilizations, and Geography into a historical survey of the world. Students will gain an understanding of how world events, people, cultures and geography are connected, and have been throughout all of the world's history. Ideas and activities will be presented so that students will learn how events of the past influence the lives of world citizens today.

## U.S. History I

Grade 10  
Required

1 Credit  
Full Year

This course will examine American History from pre-contact through the late 1800's. Topics to be covered will include, but are not limited to the Revolution, the establishment of the government, Sectionalism and Nationalism, the Civil War and Reconstruction. With each of the units, there may be an extensive look at the geographical history of the nation, how the nation expanded, and how the geography of the land affected the citizens as they worked to settle the nation. Some of the work may include mapping projects, research projects, or oral reports that will demonstrate that the student has an understanding of the topic being covered.

## US History 2

Grade 11  
Required or EMCC Sociology (SOC 101) or Human Relations (PSY 211)

1 Credit  
Full Year

This course will cover American History from Reconstruction to the present. A look at the evolution of the United States from a country split by the Civil War, then reunited into a super power and its role in world events. Topics covered will include but are not limited to Reconstruction, significant domestic and governmental issues which face the US in the 20<sup>th</sup> and 21<sup>st</sup> century including WWI, WWII, the Great Depression, Civil Rights Movement, Korea, Vietnam, the Cold War and Terrorism. There will be geographic history of the nation and how it affected settlement of the nation, mapping projects, research projects, oral reports and interpretation of political cartoons.

## Civics/Economics

Grade 12 or Civics/Ethics (PHI 101) through Eastern Maine Community College  
Required

1 Credit  
Full Year

Students will learn the history of the establishment of the government of the U.S. and the various rights that the nation's citizens have had since the first colony was established. Topics that will be covered will include, but are not limited to, the various structures of government that have been established, the Declaration of Independence, the establishment of the Constitution, the political process, voting and voter participation,

### ***Civics/Economics (continued)***

political parties, and other responsibilities of citizenship that have developed over the passing years. There will be special attention to connecting the past to the current state of American Government and citizenship. Current American public policies will be assessed for how they have been formed using past events as a guide. The past and present of American global citizenship will also be reviewed to fully understand America's role as a leader in international policies and issues.

Economics introduces both microeconomics and macroeconomics, including but not limited to supply and demand, scarcity, global alliances, different economic systems, various forms of business inflation and gross domestic product. Students will gain familiarity with the marketing system of a global economy, the stock market, the Federal Reserve System, banking, saving, and credit.

### **Civics/Ethics (PHI 101)**

Grade 12

Prerequisite: 85 average or above in US History 1 or 2 or with special permission

Elective

1 high school credit/3 college credits through Eastern Maine Community College  
Full Year

Students will learn the history of the establishment of the government of the U.S. and the various rights that the nation's citizens have had since the first colony was established. Topics that will be covered will include, but are not limited to, the various structures of government that have been established, the Declaration of Independence, the establishment of the Constitution, the political process, voting and voter participation, political parties, and other responsibilities of citizenship that have developed over the passing years. Students will then use this knowledge of government and citizenship and apply it to the process of making ethical decisions. Ethics (PHI 101) focuses on justifiable parameters for making ethical decisions. It also introduces the history of ethical thinking and decision making, utilizes case study and team format to explore and discuss ethical thinking and choosing, and provides a three-part framework for critical thinking and choosing when faced with ethical dilemmas.

### **Human Relations (PSY 211)**

Grade 11

Prerequisite: 85 average or above in US History 1 or 2, English 101, Or PSY 101 is desired, or with special permission

Elective

1 high school credit/3 college credits through Eastern Maine Community College  
Second semester

Human Relations (PSY 211) provides skills-based training, focusing on assertiveness, empathetic listening and responding, sending and receiving clear messages, flexing to different styles, adapting tasks to include motivational strategies, praising and critiquing, transactional analysis, and effectively dealing with defense mechanisms and group thinking. Students will be taking Honors U.S. History II for the first semester prior to taking Human Relations, which will run the second semester.

## **Visual United States History/Current Issues**

Grade 9 to 12  
Elective

1 Credit  
Full Year

Visual United States History is a course that will use documentaries, film, old newsreels, online streaming resources, etc. to present history in a fashion that caters to the visual learner. The visual depiction of important people, eras, and events will serve students much like a textbook does in traditional courses. Follow up questions, writing prompts, and lectures will be used to reinforce major themes and to prepare students for thematic assessments. Visual United States History will cover topics and themes spanning from colonization to present day. This course is meant to serve students as an introduction to United States History or as reinforcement to material that students learned in United States History 1 and 2. This course is open to all students in grades 11-12. Failure to stay alert in class viewings and lecture will result in dismissal from the course.

Student will also keep abreast and discuss current issues in politics, sports, entertainment, society, and culture.

## **Honors Sociology**

Grades 11 and 12  
Elective

.5 credit  
Half Year

College Sociology is a prerequisite for Sociology 101. It introduces the topic of Sociology by focusing on vocabulary concepts and activities to reinforce high school level understanding. Topics will cover Sociological Perspectives, Research in Sociology Culture, Social Structure, Socialization, and Social Interaction.

## **Sociology 101**

Grades 11 and 12  
Prerequisite-College Sociology

.5 credit/3 college credits  
Half Year

Sociology 101 is a college level course that begins where College Sociology leaves off. It is an accelerated course designed for students willing to make an effort to earn college credit. Students are required to write reflections, review professional journals, write papers, complete homework, and participate in class activities. Tests, including a final exam, are also required. This course follows the guidelines of Eastern Maine Community College with a required attendance policy, and attendance will be monitored. Students who successfully complete this course will receive 3 college credits from Eastern Maine Community College in addition to .5 high school credit.

# MATHEMATICS

## Algebra 1 Part 1

Grades 9-12

Prerequisite-Teacher recommendation

1 Credit

Full Year

This is the first of a two part algebra course that will prepare the student on number sense, fractions and their operations, the order of operations, solving linear equations, and other review topics that will prepare the student for more advanced topics in the second part of the course.

## Algebra 1 Part 2

Grades 9-12

Prerequisite-Algebra 1 part 1

1 Credit

Full Year

This is the second of a two part algebra course which continues the study of algebra concentrating on solving equations, factoring, solving word problems, linear models, linear equations, solving systems of linear equations, fractional equations and radical expressions, polynomials, and functions. This course is designed for students who have completed Algebra 1 part 1.

## Algebra 1

Grades 9-12

Prerequisite-Teacher recommendation

1 Credit

Full Year

This course is the study of algebra concentrating on solving equations, factoring, solving word problems, linear models, linear equations, solving systems of linear equations, fractional equations and radical expressions, polynomials, and functions.

## Algebra 2

Grades 10-12

Prerequisite-College Algebra 1 or Algebra 1 Part 2 or Geometry

1 Credit

Full Year

This course will present a variety of topics in algebra including: sets of real numbers, linear functions, quadratic equations, complex numbers, systems of equations and inequalities, matrices, polynomials, exponential and logarithmic functions, and sequences.

## Geometry

Grades 9-12

Prerequisite-Algebra 1 part 1 and 2 or Algebra 1

1 Credit

Full Year

This course is designed to cover geometry in a hands-on and applied format. The areas covered are as follows: points, lines, angles, triangles, polygons, triangle congruence, perimeters and areas of 2 and 3 dimensional figures, volumes of 3 dimensional objects, coordinate geometry, similarity, tangent, secant, and chords of circles. A unit on Trigonometry is included.

## Pre-calculus/Trigonometry

Grades 11-12

Prerequisite-Algebra 1 or equivalent, Algebra 2, and Geometry

1 Credit

Full Year

Pre-calculus is an upper level mathematics course that covers a wide variety of topics and merge the ideas of algebra and geometry together. The course will be split into two parts, the first being a review and further analysis into the algebraic concepts of functions, continuity, matrices, logarithms, and conics. The second part will focus primarily upon trigonometry and geometry, and weaving in algebraic concepts to help solve complex problems. If time permits a general overview of calculus will be taught.

## Statistics: MAT 161

Grade 12

Prerequisite: Math courses through Algebra 2, Accuplacer test score  
Elective

1 high school credit/  
3 college credits from  
Eastern Maine Community  
College

Students in this course will explore advanced topics in Probability and Statistics, covering four broad conceptual themes: exploring data, planning a study, anticipating patterns, and statistical inference. The use of technology is integral to this course, so the purchase of a TI-83 graphing calculator is strongly encouraged but not required. This course will be considered as a college course and upon successful completion will be counted as transferrable college credits.

## College Algebra: MAT 116

Grade 11

Prerequisite: Math courses through Algebra 2, Accuplacer test score  
Elective

1 high school credit/  
3 college credits from  
Eastern Maine Community  
College

This course builds a solid foundation in algebraic methods and techniques. It covers proportions, fundamental algebraic concepts and operations, linear equations and inequalities, absolute value, solving world problems, algebraic products and factoring, algebraic equations, graphs of function, quadric equations, determinants, systems of equations, exponents and radicals, log functions, and theory of equations.

# SCIENCE

## Physical Science

Grade 9  
Required

1 Credit  
Full Year

Physical Science is a year long course that introduces freshmen students to geology, chemistry, astronomy, meteorology, and physics. Major topics for the students to explore are the properties of matter, mineral and rock cycles, weather & climate, and the Laws of Motion. Students will also attain an understanding of the structure of the Earth, how it changes over time, and how the Earth fits into the universe.

## Biology

Grades 10  
Required

1 Credit  
Full Year

This is a project and lab based life science course. It is an introduction to cells, evolution and classification of organisms, animals, reproduction, genetics, origin of life, and environments. Hands on activities and virtual lab dissections are two important components of this class.

## Introduction to Forensic Science

Grades 10-12  
Prerequisite-Earth Science

1 Credit  
Full Year

Forensic Science deals with criminal and civil laws that are enforced by police agencies in a criminal justice system. It has become a comprehensive subject that incorporates Biology, Chemistry, Physics, Entomology, and Anatomy, as well as other aspects of science. Major topics include processing a crime scene, collecting and preserving evidence, identifying types of physical evidence, organic and inorganic analysis of evidence, hair, fibers, and paint, toxicology, arson and explosive investigations, serology (blood), DNA, fingerprints, firearms, and document analysis. The main focus will be to emphasize the evidential value of crime scene and related evidence and the services of the crime laboratory, which includes lots of experiments.

## Astronomy

Grades 10 - 12  
Prerequisite-Freshman Science and Algebra 1

1 Credit  
Full Year

Students will explore the universe from a scientist's perspective. Students will explore the structures in the universe such as the solar system, galaxies, and stars. Students will also explore the fundamental laws that are most important at these vast scales. Emphasis will be placed on physics and the basic chemistry involved in this discipline.

## Chemistry

Grades 11 - 12

Prerequisite-Physical Science and Biology

1 Credit

Full Year

Chemistry is designed to expose students to the fundamentals of chemistry including basic atomic structure, families of elements, periodic table organization, bonding, and chemical reactions. As an extension and application of these concepts, students will perform lab activities and experiments. The emphasis will be placed on real world applications. The course has both a conceptual and mathematical component.

## Physics

Grade 11-12

Prerequisites-Math courses through Algebra 2, Pre-calculus or MAT 119 highly recommended

1 Credit

Full year

Physics is a rigorous college level course in mechanics, designed to prepare students for success in the field of science and engineering. Topics covered include Kinematics, Forces, Rotational Dynamics, and Energy. No prior knowledge of calculus is required; however, because we start with an introduction to calculus we will learn the calculus that we need as we go. Lab will be an important part of the learning process in class. There will be at least one lab every quarter, and will reinforce the ideas and theories that we learn in class and apply them in real life. Due to the tremendous amount of material all students must be willing to devote a considerable amount of time to independent study.

## Adventure Based Science

Grades 10-12

Prerequisites-Physical Science

1 Credit

Full Year

This course will introduce students to the outdoor environment. Students will use hands-on techniques to explore the tracking of wildlife, studying climate, and astronomy, the ecosystem, and geology. Many classes will be held outside as students will directly apply what has been learned in the classroom, as well as collect samples and conduct research.

## BIO 121 Anatomy and Physiology I

Grade 12

Prerequisite-Bridge Academy or Eastern Maine Community College  
Early Entry College status, high school biology

1 high school credit/3 college  
credits through Eastern Maine  
Community College

Full Year

This course offers an integrated approach to anatomy and physiology, beginning with the chemical basis of life, and including cells, tissues, the integumentary, reproductive, skeletal, muscular, and respiratory systems.

## **BIO 124 Anatomy and Physiology I Laboratory**

Grade 12

Prerequisite-Bridge Academy or Eastern Maine Community College  
Early Entry College status, BIO 121

.25 high school credit/1 college  
credit through Eastern Maine  
Community College  
Full Year

This course reinforces concepts covered in BIO 121 and Anatomy and Physiology I through a hands-on approach to the study of living organisms. Methods and experiments in physiology, microscopic studies of cells and tissues, and the study of articulated and disarticulated skeletons.

## **College Forensic Science**

Grades 11-12

Prerequisite – Earth Science and Biology

1 High School Credit/3 College  
Credits through UMFK  
Full Year

We have all seen forensic scientists on television, but is this how they really work? This college level course aims to explain the scientific principles and techniques behind the work of forensic scientists. We will learn the techniques needed to investigate and solve numerous case studies from around the world. Some topics which we will attempt to address include: How did forensics come about and the role of forensics in police work. Blood, blood spatter, and how traces of blood can be used in evidence. We will study DNA chemistry to find out if it is really as powerful as the court system believes it is. We will study toxicology to discover what happens (biologically and chemically) if someone tries to poison you or someone else. You will learn to tell how long someone has been dead and what happens to the body when it has been dead for a really long time. We will touch on all criminal scientific methods, including how a little piece of carpet fluff, or a single hair, can convict someone. We will experiment all theories and create and reenact crime scenes that will aid us in determining the truth in forensic science.

## **Nature and Outdoor Science**

Grades 10-12

Prerequisite – Earth Science

1 Credit  
Full Year

Nature and Outdoor Science is an outdoor (as often as we can) course that teaches the appreciation of the wonders of nature. We will keep a journal, designed by you, which will keep track of our journeys into nature. Lessons will include climate and weather, using a telescope, wildlife and tracking, trees, logging and local ecosystems. We will also learn about entomology (the study of insects), birds & wildflowers, plants and fungi we can survive on, basic trapping for survival food, squirrels, snakes and more. We will experiment using arts & crafts, journaling, photography, field trips and videos to learn about the topics listed above. You may also suggest a topic that you would like to learn about.

### **Rural U CHY 100 College Chemistry (goes with lab)**

Grades 11-12

Prerequisites – Biology

1 high school credit/3 college credits through the University of Maine at Fort Kent

This course will provide students with a basic understanding of the most important and common concepts of general chemistry. The tentative outline of this course will cover an introduction to chemistry, atomic theories and the periodic table, nomenclature of inorganic compounds, stoichiometry of chemical formulas, energy and the chemical reactions, physical states of matter and the gas laws, basic measurement used in chemistry, chemical bonding and the compounds, chemical reactions and equations, stoichiometry of chemical reactions, reversible reactions and chemical equilibrium, solutions and their properties, acids, bases, and salts, and their nuclear chemistry.

### **Rural U CHY 101 College Chemistry Lab (goes with CHY 101)**

Grades 11-12

Prerequisites – Biology

This course will cover some general chemistry topics such as oxidation and reduction and nuclear chemistry. This course will then delve deeply into organic chemistry covering topics such as saturated hydrocarbons, unsaturated hydrocarbons, alcohols, ethers, phenols. Thiols, carboxylic acids, esters, amines, amides, aldehydes, and ketones. Biochemistry topics are also taught in some depth within this course. The biochemistry topics covered include polymer chemistry, carbohydrates and stereoisomerism, amino acids, polypeptides, proteins, lipids, enzymes, nucleic acids and heredity, and nutritional chemistry.

### **Meteorology**

Grades 10-12

Prerequisites – Physical Science

1 Credit  
Full Year

Meteorology impacts the daily lives of over 7 billion people and informs decision makers of the past, present, and future of our climate. You will investigate how the sun influences the Earth's atmosphere, what determines the weather patterns and what makes the wind blows, and observe and forecast the weather and climate throughout history and various global locations. You will also experience a semester long laboratory experiment by recording data of current weather conditions, as well as "broadcasting" their weather forecasts to the school community as a final project.

## **Oceanography**

Grades 10-12

Prerequisites - Physical Science

1 Credit

Full Year

With the longest tidal shoreline in the United States, Maine's coastline is an important economical and ecological resource for its people. The connecting ocean is a wonder of life and geology and to scientifically inform us of this blue oyster is oceanography: the study of the physical, chemical, biologic, and geologic aspects of the world's oceans and their interactions. The course also focuses on ocean exploration; history, ocean policies with regards to fishing, pollution, and the environment, and why the study of oceanography is important to you. Students will utilize small laboratory experiments to classify ocean life and explore the potential harms to increasing carbon dioxide concentrations in the ocean. They will also read case studies, evaluate available ocean data, and write reports on the status of the world's oceans.

# FAMILY AND CONSUMER SCIENCES

## **Child and Human Development**

Grades 9-12  
Elective

1 Credit  
Full Year

This course will study the physical, motor, intellectual, emotional, and social developments of children ages prenatal to 1 year, and ages 1-5 years. Parenting topics such as health and safety, discipline, and consumerism are also covered. Developmental theories will also be addressed. Students may have a field experience and/or educational internship opportunities. Students may also work as teacher assistants at the elementary level. This course can be repeated as Child Development 2 with teacher permission. This course is designed for students interested in Psychology, social work, teaching, coaching, and health professionals.

## **Cuisine**

Grades 10-12  
Elective

1 Credit  
Full Year

This course is an introductory foods course. It is designed to give students an opportunity to practice common techniques such as measuring and working in a lab setting. Many food topics are explored, including up to date nutrition information and food safety. Written work and lab work will be required.

## **Personal Finance Math and Family Lifestyles**

Grades 11-12  
Prerequisite-Algebra 1 and Health  
Elective

1 Credit  
Full Year

This course will cover the everyday need to know things that are necessary to manage your life. Topics could include budgeting, paying of bills, buying consumer goods, completing taxes, completes applications such as for jobs or bank loans, insurance, banking, meal planning, taking care of consumer goods such as clothing and personal care items, managing children (such as selecting doctors, day care, education, and activities). This course will be taught as a team-teaching venture between the Math and Family Consumer Science departments.

## TECHNOLOGY

### Advanced Technology

Grades 11-12

1 Credit

Prerequisite: College level math (MAT 116, Pre-calculus, etc.) **OR** Teacher recommendation

Full Year

Advanced technology is a course designed to allow students hands-on exposure to modern applications of technology. These technologies include 3D printing, programming, robotics, and electronics. Students will learn general principles of programming, how to build and program robotics kits, build and use Raspberri Pi computers, and how to design and produce 3D models with the 3D printer. A significant focus will be placed on integrating mathematical modeling, physics, and engineering. Because of the math involved in this course, enrollment or completion of college level math courses will be required.

## PHYSICAL EDUCATION AND HEALTH

### Physical Education

Grades 9 Required

1 Credit

Grades 10 -12 Elective

Full Year

Physical Education is a 1 credit course that meets two to three times weekly. It is required for all students in grades 9. The objectives of the class are to teach the skills and fitness habits along with team and lifetime sports that will benefit the students throughout their lives. Students may enroll in physical education in grades 10 through 12 as an elective.

### Health

Grade 10

1 Credit

Required

Full Year

Health class meets for one year and is a graduation requirement. Health education encompasses many aspects of the student's life. Some covered topics include: goal setting, relationships, nutrition, safety, drug and alcohol education, and tobacco. The student leaves the course with an awareness of how important their health can be physically, mentally, and socially.

## Adventure Based Outdoor Education

Grades 9-12

Prerequisite-**Teacher approval prior to enrollment** and ability to pass a physical fitness test designed for the course

1 Credit  
Full Year

This class is geared to the students' interested lifetime, non-competitive sports and activities, such as orienteering, canoeing, kayaking, rock climbing, fishing, skiing, snowshoeing, fly tying, outdoor survival, hunter safety, a trapper education course, and more. Students will be required to research and teach outdoor skills during this course. This course can apply as the Physical Education requirement.

## Personal Fitness-Individual Sports

Grades 10-12

Prerequisite: Physical Education, **Prior permission from the instructor**

1 Credit  
Full Year

This course will focus on the components of fitness training, cardio respiratory endurance, flexibility, muscular strength/endurance. Proper training techniques as well as a variety of fitness promoting activities will be taught and practiced. Each student will design and implement a personal fitness plan for the year. Progress will be kept in a journal with daily documentations including goals, nutrition, and exercise. We will also participate in life sports/activities such as golf, badminton, hiking, tennis, snowshoeing, cross country skiing, etc.

## ORT 105 Introduction to Outdoor Skills

Grades 11-12

Prerequisite: Grade point average (GPA) of 85 or higher, instructor permission

1 high school credit/3 college credits through Eastern Maine Community College

This course introduces knowledge and skills required for overnight backpacking and canoeing trips. Students will plan, organize, and participate in a series of wilderness trips lasting from 2 to 8 days. Topics will include: personal and group equipment selection, care and repair, campsite selection and setup, stove and campfire use, Leave No Trace principles, hiking and backpacking, canoe camping, weather interpretation, useful knots, meal planning and cooking, navigation and route finding skills, river crossing, bear camping, basic risk management and emergency procedures. Overnight outings are a required component of the course. Students must be in excellent physical condition. **This course will run the first semester.**

## ORT 106 Introduction to Winter Outdoor Skills

Grades 11-12

Prerequisite: ORT 105, grade point average (GPA) of 85 or higher, instructor permission

1 high school credit/3 college credits through Eastern Maine Community College

This course provides knowledge and skills required for winter backcountry travel and extended winter overnight camping. In addition to lecture, students will plan and participate in a series of wilderness trips lasting from 2 to 8 days. Topics include personal and group winter equipment selection, thermoregulation and energy conservation techniques, winter traveling and camping skills, winter Leave No Trace principles, risk management strategies in the winter environment, snowshoes and/or backcountry ski traveling techniques, building snow shelters, building and using a snow sled. Students will be expected to conduct additional research and present information on such topics as cold weather injuries, winter natural history, meteorology, etc. Students are required to provide proper clothing for winter backcountry travel. Requires one or more multi-nights backcountry trips in order to apply their skills to a real time environment. Students must be in excellent physical condition and able to easily travel at least 5 miles per day on a trail with a 35 pound backpack. **This course will run the second semester.**

## FINE AND PERFORMING ARTS

### Chorus

Grades 9-12  
Fine Art Credit

.5 Credit  
Full Year

Chorus meets as a regularly scheduled class to sing a variety of music, including songs from the renaissance and classical era's musical theater, jazz, American standards, world folk arrangements, contemporary popular songs and more serious choral music. Attention is paid to vocal techniques, rhythm, style, musical expression -- and enjoying the music. Concerts are presented at Christmas and in the spring, and the Chorus sings at Graduation. Individual instruction will be provided for All-State auditions and acceptance, as well as District V festival preparation.

### Band

Grades 9-12  
Fine Art Credit

1 Credit  
Full Year

High school band meets as a regularly scheduled class. **Each student is to participate in all functions throughout the year at which the high school band performs, including Pep Band performances at all home basketball games, marching in the Memorial Day Parade, and graduation.** Individual instruction will be provided for All-State auditions and acceptance, as well as District V Festival preparation.

## **Jazz/Rock Band**

Grades 9-12

Prerequisite-Band/ability to play an instrument such as guitar/instructor permission

1 Credit

Full Year

In this course students will explore through playing instruments the styles of jazz and rock bands in the modern era. This class will have a performance component.

## **The History of Rock and Roll**

Grades 9-12

Prerequisite-None

1 Credit

Full Year

This course examines the history of rock and roll as it unfolded in the United States from its early influences to the present day. This history will be explored with an emphasis on both cultural and historical context as well as a musical one. Because this class will be offered in both a physical location and online, it may be taken from anywhere. This means that students at other high schools can virtually attend class either during the scheduled class period or at another time online.

## **Music Theory**

Grades 9-12

Prerequisite-**Gifted and Talented**

1 Credit

Full Year

In this course students learn to read and write music using music notation. We will also explore the ranges and timbres of different voices and instruments, as well as percussion notation.

## **Theatre Arts**

Grades 9-12

Prerequisite-None

1 Credit

Full Year

This course will be co-taught by the Music/Acting and Art teachers. It is comprehensive and encompasses all aspects of a theater production from acting and improvisation to the set design, lights, and sound. The curriculum each year will be geared to the individual students in the class. The final project for this class will be a spring production put on by the class.

## Basic Art

Grades 9-12  
Prerequisite-None

1 Credit  
Full Year

Art I is a foundation course in visual art that promotes the idea of art as a form of visual language and design as the vocabulary of artists. Students will be introduced to the elements and principles of art and design. Projects are intended to encourage visual expression while teaching essential skills. Basic drawing, two-dimensional design, three-dimensional design, painting, printmaking, and sculpture will be introduced. Art history, art styles, and artists will be introduced as they related to projects.

## Advanced Art/Sculpting

Grades 10-12  
Prerequisite-Successful completion of Basic Art with a grade of 88 or better  
Fine Art Credit

1 Credit  
Full Year

Advanced Art/Sculpting will focus on a more advanced level of studio art with projects centered on painting, printmaking, illustration, sculpture and craft. Independent projects may be submitted for approval. Art history, art styles, and artists will be introduced as they relate to projects.

## Painting and Drawing

Grades 10-12  
Prerequisite – Successful completion of Basic Art with a grade of 88 or better **or** grade 9  
If identified as Gifted & Talented in Visual Arts in grade 8  
Fine Art Credit

1 Credit  
Full Year

This course will focus on advanced techniques of several major genres of painting, including still life, landscape, and portraiture. Projects will be completed in acrylic, watercolor, pastel, oil, and mixed media.

## Technical Theatre 101

Grades 9-12  
Fine Art Credit

1 Credit  
Full year

This course will provide students with knowledge on multiple aspects of the technical side of theatre such as backstage, lighting, sound, and scene development. They will learn how to read a script through the eyes of a technical stage person, develop the sets as well as props, and how to transition scenes during a production. Students will also learn basic terminology of the theatre in regard to stage arrangement and effects. This course will also cover the necessary lighting, sound, and additional effects needed to make a production successful. Students will learn how to work with the cast and have a successfully functioning role in the theatre. Overall, students will get a wide array of experience and education within the world of technical theatre.

## **Introduction to Digital Art**

Grades 9-12

Prerequisites-None

1 Credit

Full Year

Digital Art is a foundation course in digital design that promotes the idea of art as a form of digital design. During this course, the students will be able to learn the basics of digital art before the advancement to Region III. This course will include lessons on digital color theory, photo manipulation, visual effects, creating videos, and understanding computer generated imagery.

## **Pottery and Ceramics**

Grades 10-12

Prerequisites-Successful completion of Basic Art with a grade of 88 or better

1 Credit

Full Year

Pottery and Ceramics is an upper-level art course geared towards educating students who want to learn specifically about how to build ceramic vessels and pottery. This course will include projects based on how to use clay in hand building containers, introduction to the wheel and proper procedures to making pottery, how to fire clay forms, how to apply glaze to the ceramics and pottery, as well as various pottery techniques.

## **FYE 100 College Success Course**

Grades 11-12

.25 high school credit/1 college credit  
through Eastern Maine Community College

**This is a summer course which takes place over 3 consecutive days.** This course is designed to empower students to achieve success in college and in life by learning highly effective research-based strategies that appeal to various learning preferences and by identifying resources that will help them be successful in college. Students will focus on the following eight principles: personal responsibility, self-motivation, self-management, interdependence, self-awareness, lifelong learning, emotional intelligence, and self-respect.

## **COMMUNITY SERVICE/INTERNSHIP**

Grades 11-12

1 Credit  
Full Year

Community Service/Internship will give students the chance to learn on the job training at various local businesses and public works, such as the East Millinocket Fire Department and Katahdin Kritters. This is available for students with prior approval from the principal, and students must be willing to put in extra time if necessary.

## **TEACHER ASSISTANT**

Grades 10-12

Prerequisite-have taken or are currently enrolled in Human Development  
Special permission from an administrator or staff member

1 Credit  
Full Year

Students will work in the classrooms under the direction of a teacher to assist with activities, projects, and classroom exercises, and other assigned tasks. Students will learn child development practices and theory while exploring the dynamics of classroom instruction.

## **SPECIAL SERVICES**

Students up to the age of twenty with special needs are provided an education program that best meets their individualized goals in an environment best suited for the student. The Pupil Evaluation Team assesses the individual needs of each student and generates an Individual Education Plan that provides the best educational program in the least restrictive setting.

## **SPECIFIC PROGRAMS FOR JUNIORS AND SENIORS: REGION III VOCATIONAL PROGRAMS**

**Region III Programs are offered for grades 11 to 12 only.** All region III courses are **4** credits.

### **Welding Technology**

Welding is a skill used by many trades: sheet metal workers, iron workers, diesel mechanics, boiler makers, carpenters, marine construction, steamfitters, glaziers, repair and maintenance personnel in applications ranging from the sculpture home hobbyist to heavy fabrication of bridges, ships, and many other projects. A variety of welding processes are used to join units of metal. As a welder, you may work for shipyards, manufacturers, contractors, federal, state, county, and city governments, firms requiring maintenance mechanics, and repair shops.

Our welding technology program provides training in SMAW (shielded metal arc welding), GTAW (gas tungsten arc welding), PAC (plasma-arc cutting), GMAW (gas metal arc welding), FCAW (flux-cored arc welding), OAW (oxyacetylene welding), OAC (oxyacetylene cutting), and basic fabrication. Lecture portions of the program include blueprint reading, welding principles, structural steel codes, welding inspection, quality control, and non-destructive testing 1 and 2.

Dedicated students will have the opportunity to become a Structural Certified Welder through the American Welding Society. Northern Penobscot Tech has been training students for over 25 years and has hundreds of graduates working as successful welders nationwide.

### **Web Design/Digital Communications**

Students in Region III's Web Design/Digital Communications program learn the fundamentals of Video Production and have fun at the same time. Students will learn proper camcorder operation and how to edit using Final Cut Pro. Students also manage our Cable Access Station where we air community events and our video productions. Additionally, students will learn the basics of website design and video game design. Students will complete the Adobe Photoshop Classroom in a Book training series. Lessons include how to retouch photos, manipulate images, create original artwork, and prepare work for the web. Successful students in this curriculum will be able to take the Adobe Certified Associate Exam in Visual Communication. This is a nationally recognized certification.

### **Information Technology**

Information Technology is all about skills. Students will perform some of the routine maintenance, upgrades, repairs, and other tasks for systems at NPT Region III. This repair course can be taken as a single course or as a preparation for the Networking course. Students will learn essential skills related to the IT trade. The Information Technology course provides an opportunity for students to get hands on understanding of how hardware and software work. This is combined with studies that prepare our students for the COMPTIA A+ and Network + certification exams, which are administered at Region III.

## **Registered Medical Assistant**

The Registered Medical Assistant (RMA) program is a 2 year program that offers students an opportunity to take two national certification exams: Registered Medical Assistant and Registered Phlebotomy Technician. This college level program provides students an opportunity to participate in flu shot clinics, phlebotomy rotations, complete an internship at a health care office (during the spring semester of the second year), work directly with physicians, and learn clinical procedures such as injections, various testing (cholesterol, mono, rapid strep, etc.), EKG, sterile field, and pulmonary function testing.

Although students may gain employment directly out of high school, the majority of graduates choose to go on to college to pursue a degree in the medical field. Students who go on to college have benefited greatly from the knowledge they attained from this program. Local employers who have hired our students directly out of high school include Penobscot Valley Hospital, Millinocket Regional Hospital, Katahdin Valley Health Center, Health Access Network, Penobscot Community Health Center, Eastern Maine Medical Center, and St. Croix Family Medical Center. The average starting salary at these facilities is between \$13.00 and \$14.50 per hour with benefits and paid vacations.

## **Certified Nursing Assistant**

The Certified Nursing Assistant (CNA) program is a one year program that offers students a chance to receive a State of Maine certification as a Certified Nursing Assistant. In addition to a CNA certification, students also receive an opportunity to earn three credits in Medical Terminology from Central Maine Community College, Southern Maine Community College, and Eastern Maine Community College. Students will also become certified as a CPR/First Aid provider.

Local hospitals, nursing homes, and home health care agencies employ hundreds of CNAs. These employment opportunities become available to students as early as March of the school year they are attending. Locally, CNA wages start at \$9.00 to \$11.50 per hour. There is no shortage of available CNA jobs in the local area. This makes the CNA program an ideal opportunity for students who would like to obtain a good paying job in the local area.

## **Medical Administrative Specialist**

The Medical Administration Specialist (MAS) program is a 1 or 2 year program that trains students how to work in a medical office, clinic, and hospital setting. Medical Administration Specialists are skilled in medical records management, insurance processing, coding and billing, management of medical practice finances, information processing, and fundamental office management tasks. Students who enroll in the 2 year program will have an opportunity to take the American Medical Technologists (AMT) Certified Medical Administrative Specialist (CMAS) test. In addition to the certification test, second year students will participate in a 160 hour externship in a local medical office.

Students who enroll in the one year program will learn Medical Office Technology. All first and second year students will have an opportunity to earn three college credits in Medical Terminology from Northern Maine Community College, Eastern Maine Community College, and Southern Maine Community College.

## **Commercial Driving**

Students who attend the Commercial Driving class will learn all aspects of class A tractor-trailer driving, including safety, maintenance, and operation. Students who successfully complete the CDL course will sit for the State of Maine Class A permit, and will have the opportunity to take the road test to obtain their Class A license.

## **Automotive Technology**

Automotive Technology is a 2 year program providing students with the critical thinking skills necessary to diagnose, service, and repair automobiles. A heavy emphasis is placed on creating a real life shop work environment. Students are encouraged to continue their education at the post-secondary school of their choice. Students may earn ASE Certification in Maintenance and Light Repair, Brakes, and Steering and Suspension. Students will also have an opportunity to earn a Maine State Inspection License.

## **Culinary Arts**

The Culinary Arts Program is a 2 year program that enables students to study all aspects of the food service industry, and helps prepare for a successful career in the field. Students are taught safety in food preparation and storage, proper equipment use, all methods of cooking, service, menu planning, and records keeping. This course is designed to build fundamental skills and combines daily classroom work with hands-on kitchen practice. Culinary Arts students serve lunch to the entire Region III faculty and student body on a regular basis. Students also cater various school and community functions. Upon completion, students will have the knowledge to continue in post-secondary culinary education, or begin a successful career in food service.

## **Law Enforcement**

The Law Enforcement Program is designed to introduce students to a career that is exciting and personally rewarding. The academically rigorous and physically demanding program emphasizes teamwork and effective communication skills. Students will be asked to demonstrate a positive attitude and good moral characteristics that exemplify that of a Law Enforcement employee. Students will also have exposure to various other public safety professions. Through a dual enrollment agreement with Central Maine Community College, students will have the opportunity to earn 3 college credits in Criminal Justice at no cost to the student.

## **Emergency Medical Technician (EMT)**

The Emergency Medical Technical (EMT) course is designed to prepare the attendee to work as an EMT and initiate lifesaving emergency medical care. The participant will be trained in patient assessment, airway management, cardiopulmonary resuscitation, automated external defibrillation, basic medication administration, wound dressing, hemorrhage control, splinting, spinal immobilization, childbirth, lifting,

### ***Emergency Medical Technician (continued)***

moving, and extricating patients. This course includes clinical experience in a hospital emergency department and/or ambulance service. Students who successfully complete this course will receive 5.5 credits through Eastern Maine Community College and are eligible to sit for the State of Maine EMT and National Registry of EMT Licensure exams.

### **Construction Technology/Cabinetmaking**

The Residential Construction Technology Fine Woodworking/Cabinet Making program offers students an opportunity to learn the skills needed to become a successful and valued employee in today's construction industry. With emphasis on construction carpentry and fine woodworking/cabinet building and computerized drafting using "Chief Architect", students will learn in a well-equipped newly constructed modern shop at Region III. A wide variety of projects will challenge students in a live real world atmosphere. Projects range from digital computer design, rough framing of buildings, roofs, decks and stairs, application of siding to interior fine finish woodworking. Students plan and design layout projects from start to finish working directly with customers. The live work learning experience develops confidence and skills in a supportive and challenging environment.

The fine woodworking and cabinet making concentration offered in the building construction technology provides students with an option tailored for differing occupational goals. Students will gain the knowledge and skills necessary to plan and complete custom cabinetry projects. Emphasis is placed on selecting proper materials, determining the best construction procedures, manufacturing parts to specification, assembling, and finishing individual projects. Students choose courses which focus in drafting, cabinet layout, estimating and design of cabinet making, furniture, and millwork. Students apply their studies by building different types of custom cabinets, furniture, and an array of customer driven requests in each year of their program.

### **Academics**

Region III recognizes the importance of academics in the overall success of our students. For those students who have fallen behind on their graduation requirements, we offer several courses through an online computerized learning system (PLATO). Students work at their own pace, with on-site individualized instruction provided by a certified teacher. This teacher is also available to provide general academic assistance to struggling students.