
Maranacook Community High School



Program of Studies 2010 – 2011

Maranacook Community High School
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Guidance Services

The school counselors provide counseling programs in three domains: academic achievement, career planning, and personal/social development. Our services help students resolve emotional, social, or behavioral problems and help them develop a clearer focus or sense of direction. An effective counseling program is important to our school climate and crucial element in improving student achievement and well-being. Above all, school counselors are student advocates who consult and collaborate with teachers, administrators, and families to help students be successful.

The Guidance office is available to assist students in making course selections and career and post-secondary plans. Students and parents are encouraged to make an appointment to discuss any concerns with one of the school counselors.

Maranacook Schedule

Maranacook’s schedule is a block schedule based on alternating Black and Gold days with periods 1,2,3,4. The school day is from 8:00 a.m. to 2:30 p.m.

Report Card & Progress Reports

A computer-generated report card is mailed each semester. The district uses PowerGrade as its electronic grading system. Grades can be accessed by staff, students and parents via the Web throughout the school year. Please contact the front office for assistance with passwords and logins.

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COURSE SELECTION INFORMATION

The academic program at Maranacook Community School includes a wide variety of courses. The courses students take in high school affect their options when they graduate. For this reason, we promote a four-year perspective on course selection for students and strongly encourage parental involvement. Parents and students should work with advisors and the guidance office to plan a four-year sequence of courses. We encourage parents and students to take the following steps in doing this:

1. **Review the student's present and past academic record.** List this information on a "Program Planning Worksheet" before reading this booklet. Get this form from your advisor or guidance counselor. The guidance office also has your transcript, which you will need to complete the form.
2. **Develop the student's future goals.** These could include a four-year college program, a training program, military enlistment, or employment following graduation. For each of these options there is a range of course requirements. To help you, Maranacook's courses have been sorted into four guides. You will find a description of each guide with sample courses in this booklet.
3. **Decide which plan the student should follow.** Do this by comparing the information in steps 1 and 2. Then answer some questions:
 - a. Which plan will best meet the student's goals?
 - b. Does the student's present and past academic record support this plan?
 - c. If the answer to b. is no, then either change the goal, or add extra or stronger courses.
4. **Read the course descriptions in this booklet.** Then select courses for the coming year that are in that plan. Be sure to consider School Committee graduation requirements listed on the following page.

The school's aim: To encourage students to select the most challenging sequence of courses that will prepare them for reaching their goals. Advisors and guidance counselors are available to aid students and parents with each step outlined above. Developing a program of studies for high school can be exciting. We want to assist in any way we can.

Permission to Drop a Course:

Each student is expected to carry a minimum of 6 courses or the equivalent each semester. Once a course is elected, the student is expected to complete it. However, a limited add/drop period of 5 days is held at the beginning of each semester. To add or drop a course after the add/drop period, a special form must be secured from the guidance counselor, filled in, and signed by student, parent, subject teacher, advisor, Academic Dean, and counselor. ***Courses may only be dropped within the first four weeks of each semester.*** Exceptions may be requested in extreme circumstances through the guidance counselor.

CURRICULUM REQUIREMENTS

The RSU#38 School Committee believes that in order to assure the students at Maranacook Community School are better prepared to meet the challenges of society today and tomorrow, it is important that the school maintain a high level of expectations. The School Committee intends that the credit requirements established in this policy be considered the minimum; staff and parents should encourage and challenge students to exceed the minimum.

- A. Each student is required to take six (6) full courses each semester. Seniors may elect to do a Senior Project as their sixth class.
- B. With prior approval, students may earn a half credit toward graduation for each diploma course taken in the Adult Education Diploma Program. This procedure is referred to as "concurrences" and requires approval of the Guidance Counselor, Adult Education Director, Superintendent, and School Committee or their designee.
- C. All students are required to earn twenty-two credits to receive a diploma and participate in the graduation exercises.
- D. Seniors who correct any deficiencies by the end of the first full semester following the graduation date may receive their original diploma.
- E. Required credits for graduation MUST include:

Subject	Credits
English	4
Mathematics	3
Science and Technology	3
Social Studies*	3
Health	1/2
Fine Arts	1
Physical Education	1½
Computer Elective	1/2
Electives	5½

*Social Studies credits must include Global Explorations, World History and US History.

Students may request additional coursework in specific subject areas to meet elective requirements, provided all recommended prior coursework has been satisfactorily completed. Students must meet the standards of the Maine Learning Results in addition to the specific credit requirements listed above. Any substitution or exception to the requirements for graduation will require the recommendations of the advisor, Guidance Counselor, and the Principal.

ENGLISH LANGUAGE ARTS

Sometimes students ask, “I already know English. Why do I have to take it?” The answer is that the study of English involves more than mere fluency, or ability to speak the language. English classes provide skills that allow us opportunities to define who we are, to voice our opinions and ideas, and to explore new thoughts and perspectives. We learn how to express ourselves with clarity and creativity. We are also invited to share those aspects of ourselves with others, and, through reading, connect with the experiences of a wide variety of people, times, and places. As we begin to understand and appreciate the complexity and uniqueness of other individuals, cultures, and perspectives through the study of our own English language, we better understand and appreciate ourselves.

Honors courses are for students who choose to work at an accelerated pace and pursue in-depth study. Students in these courses read more difficult material, apply more abstract concepts and work at a faster pace than college preparatory classes. Extensive writing, student responsibility and initiative, absolute deadlines and portfolio assessments are emphasized. Summer reading and writing are required for entering these classes. At this level, students are expected to read 20-30 pages for homework independently as well as completing all homework assignments regularly. Class work includes daily readings, writing assignments, vocabulary work, journals, and discussions.

College Prep courses prepare students for four year colleges, and MCHS offers English 9 College prep and English 10 College prep. These courses help students master the language and composition skills required to write clearly and effectively. In addition, students read and analyze various genres of literature. Students work to improve reading, writing, and critical thinking skills. Class work involves daily readings, writing assignments, vocabulary work, journals, and discussions.

Applied English courses are designed for students in grades 9-12, offering extra support for students who need to develop their reading and writing strategies and skills, and we work at a slower pace than college prep, while still working to pursue a deeper understanding of the materials.

English Elective courses are offered to 11th and 12th graders. After completing English 9 Honors or College Prep, and English 10 Honors or College Prep, students may take elective courses for English credit – please note that some elective courses (currently Journalism and Theatre) do not substitute for an English elective. There is no set of progression for English electives.

ENGLISH 9 Honors, College Prep, Standard

This course reinforces and strengthens students’ language, composition and research skills. It is also a survey of various literary types such as novels, short stories, drama, and poetry. Students in Honors English 9 must read four books for summer reading. In addition, students must write two pages of personal response (not a plot summary) for each book due the first day of class. The English department will provide a list of books from which students may choose. Students in College Prep English 9 or English 9 who choose to do the summer reading and writing will receive 10% credit. 1 English credit

ENGLISH 10 Honors, College Prep, Standard

Prereq: English 9

This course improves students’ writing, reading and research genres skills. The goal of the course is to introduce students to a greater range of literary types and ideas beyond English 9. Another goal is to help students develop interests they can pursue in the Junior/Senior electives program. Honors English 10 requires summer reading. The English department provides a list of books from which students may choose. In addition, students must write two pages of response on each book, for a total of 8 pages. This must not be a plot summary but a personal response to the reading. They are written as the reader progresses through each of the three books. Students in College Prep English 9 or English 9 who choose to do the summer reading and writing will receive 10% credit. 1 English credit

ENGLISH 11 1 English credit

ENGLISH 12 1 English credit

ENGLISH ELECTIVES

HONORS AMERICAN LITERATURE Grade 11

This course provides an in-depth analysis of American authors or topics from colonial times to the present. Selections include the study of lesser known writers as well as major figures. Readings include novels, short stories and poetry. Course work includes extensive reading assignments, writing assignments and serious discussion. A comprehensive research project over a specific author or poet will be required. In addition, students will be required to do summer reading and writing. The teacher will contact students with further information. 1 English credit

CREATIVE WRITING HONORS Grades 11-12 Prereq: Submission of student writing and Teacher recommendation

Students in this course will learn and practice skills that will help them create original, fresh, and insightful creative work. They will increase their understanding of how writing is structured to create particular effects. They will hone their critical reading skills through reading, discussion, and writing assignments, and will learn the conventions of critique, collaboration and editing in a workshop setting. Students will compile a portfolio of revised and edited work of their own. Summer reading is required. 1 English credit.

WORLD LITERATURE CP Grades 11-12

Travel the world through reading! Classic literature and contemporary stories, novels, poems, and plays will help you to learn about other cultures of the world in preparation for college-level work. Course work includes daily reading, discussion, journal work, essay writing, and vocabulary study. Films, art, myths and folktales, and research also complement our texts in order to create a context for understanding what we read. 1 English credit

READING, WRITING AND REFLECTION CP Grades 11-12

Choose your own books and create individual reading-based projects in this English elective. In addition to self-selected readings, we will read a variety of short works from newspapers, magazines, and Internet site in class as a basis for discussion, debate and writing prompts. In preparation for two or four year colleges, students will develop a variety of writing and analytical skills. 1 English credit

CONFLICTS AND CONNECTIONS IN LITERATURE CP Grades 11-12

Do you have a hard time relating to “classic” literary works? This course will focus on contemporary young adult fiction that includes interesting characters in situations of conflict and connections. We will continue the work started in Sophomore English on college preparatory skills. These will include activities that emphasize reading analysis, essay writing, vocabulary work, journal exercises, and in-depth discussion. 1 English credit

READINGS IN FICTION CP Grades 11-12

This course emphasizes novels and short stories by 20th century authors. Course work will include daily reading, discussion, journal work, writing instruction, and vocabulary study of words in context. Individual reading and writing projects will also be used. Short research assignments will also be completed to gain an understanding of the times and cultures of the fiction read. 1 English credit

HONORS ENGLISH SEMINAR Grade 12

This course is meant to approximate the depth and breadth of a college freshman English course. Major areas of study are literary and rhetorical analyses of fictional and non-fictional texts, linguistics, and the cultural impact of literature and language. In this class, we will also be reading many texts for the pure enjoyment of reading. In preparation for college, students will further develop writing skills in a variety of genres, including creative writing. Emphasis is placed on student initiative and creativity. 1 English credit

JOURNALISM Grades 11-12

Experience a variety of opportunities as you work to produce a high-quality student publication. Gain skills in interviewing, editing, layout and design, composition, photojournalism, and advertising. The ethical and legal aspects of journalism will be subjects of study, as well as the art of wrapping your information in rich rhetoric. Design, create, and implement your own program of study. 1 elective credit

THEATRE Grades 10-12 Semester

This course is designed to be an initial exposure into the world of theatre, stressing the knowledge and practical use of skills related to the theatre. Some study of historical and contemporary theatre will be covered. Activities are designed to develop skills in the following areas: voice production, dramatic reading and delivery; stage presence (individual and group) and use of body language and movement; improvisation, acting and characterization; monologue delivery, memorization, scene study, script reading and analysis, critique (oral and written) and scene production. *Note: this is not a course where students sit passively; all students are required to participate actively.* ½ elective credit

MATHEMATICS

TECHNICAL ALGEBRA 1 Grade 9

Prereq: None

This class is the first year of a three-year sequence in fundamental mathematics. The class prepares the student for algebraic thinking by reviewing basic math skills and introducing integer math. Following integer mathematics, topics to be addressed are: statistics, recognizing and reading different types of graphs, algebraic expressions, order of operations, evaluating expressions, distributive property, simplifying expressions, problem solving and solving simple equations in the form of $ax+b=c$. 1 mathematics credit

TECHNICAL ALGEBRA 2 Grade 10 Prereq: Technical Algebra 1 or permission of Academic Dean

This class is the second year of a three-year sequence in fundamental mathematics. The course continues the work of Technical Algebra 1 with emphasis on the students' use of symbols to represent quantities, patterns and relationships and use symbolic manipulation to evaluate expressions and solve equations. Topics to be addressed: Solving equations of the form $ax+b=cx+d$, solving absolute value equations, ration and proportion, graphing linear equations, slopes, different forms of linear equations, scatter plots, solving real life problems using systems of equations. 1 mathematics credit

COLLEGE PREP ALGEBRA I PART 1 Grade 9

This course is the first half of a two year sequence in Algebra. This course requires sound study skills and work ethic. Topics to be addressed include problem solving, use of variables, basic operations of algebra and linear equations. 1 mathematics credit

COLLEGE PREP ALGEBRA I PART 2 Grades 9-10 Prereq: Algebra I Part 1

This course completes the study of Algebra I for students needing a strong foundation in Algebra. Students are introduced to scientific and graphing calculators. Topics to be addressed include slopes and lines, exponents and powers, quadratic equations and square roots, polynomials, linear systems, factoring, and functions. 1 mathematics credit

COLLEGE PREP ALGEBRA I Grades 9 – 10

This course is a one-year algebra program. This course requires sound work ethics and a solid understanding of fractions, decimals, percents, and positive and negative numbers. Topics covered include use of variables, solving equations, linear equations and functions, slope, graphing, systems of equations in two variables, powers and FOIL. 1 mathematics credit

TECHNICAL GEOMETRY Grade 11 Prereq: Technical Algebra 1 & 2 or permission of Academic Dean

The goal of this class is to prepare students to use mathematics effectively in today's world and promote independent thinking and learning. This is done through developing a working knowledge of plane and solid geometry, expanding the student's capacity to solve problems intuitively and analytically, and maintaining and expanding skills acquired in previous math courses. Geometry helps connect previously learned concepts with the real world. Students will use measurement and observation to describe objects based on their sizes and shapes, construct two- and three-dimensional objects, solve problems involving geometric properties, and compute areas and volumes based on object properties and dimensions. 1 mathematics credit

COLLEGE PREP GEOMETRY Grades 9 –12 Prereq: Algebra I

The goal of this class is to prepare students to use mathematics and logical thinking effectively in today's world. It promotes independent thinking and learning. Topics covered include points, lines, planes, parallel lines, two-dimensional figures, and three-dimensional figures. Students will also learn to write logical proofs and will use their algebra skills to solve geometry problems. 1 mathematics credit

HONORS GEOMETRY Grade 9 Prereq: Permission of Academic Dean/Algebra I

Honors Geometry prepares students to use mathematics effectively in today's world and promotes independent thinking and learning. This is done through an uncompromising study of Euclidean Geometry, expanding a student's capacity to solve problems both intuitively and analytically and broadening mathematical skills acquired in previous courses. The topics covered are points, lines, angles, planes, definitions, polygons, circles, congruence, similarity, measurement, volume and surface area of solids, and 3-dimensional figures. 1 mathematics credit

COLLEGE PREP ALGEBRA II Grades 11 – 12 Prereq: Geometry

The principle goal of this course is to continue the development of analytical thinking and to apply that knowledge to practical problems. This course provides the background needed to continue mathematical study in Algebra III and Calculus. Topics covered include the language of algebra, linear relations, functions, systems of equations, inequalities, quadratic equations, powers, and polynomials. 1 mathematics credit

COLLEGE PREP STATISTICS Grade 12

Prereq: Algebra II

This is a full year course designed to cover an introduction to statistical concepts. Statistics is a branch of mathematics that deals with the collection, organization, analysis and interpretation of information usually referred to as data. The aim of this course is to give students not only an understanding of these concepts, but also useful skills for working with data. Through student generated experiments and other projects, students will collect data and be able to interpret results. The TI-83 graphing calculator will be used extensively. Each book comes with a CD-ROM that contains data sets for exercises and tables that will be used. 1 mathematics credit

HONORS ALGEBRA II/TRIG Grades 10 – 12

Prereq: Permission of Academic Dean

The principle goal of this rigorous course is to continue the development of analytical thinking and to apply that knowledge to practical problems. This course provides the background needed to continue mathematical study in PreCalculus and Calculus. Topics covered include the languages of algebra, variations and graphs, linear relations, matrices, systems, parabolas and quadratic equations, functions, powers and roots, and trigonometry. 1 mathematics credit

COLLEGE PREP ALGEBRA III/TRIGONOMETRY Grades 11 – 12

Prereq: Algebra II

Analysis is the study of advanced algebra. This course promotes the development of critical thinking and problem solving skills. To do this, it uses a rigorous presentation of mathematical concepts. Topics will include advanced algebra, functions, graphs, polynomials, zeros of polynomials, rational functions, exponential & logarithmic functions, trigonometric functions, & application of trigonometry. 1 mathematics credit

PRECALCULUS Grades 11 – 12

Prereq: Permission of Academic Dean

Precalculus continues the sequence of Honors math courses. It aims to prepare students for calculus and college mathematics. Topics are covered in greater depth than in AlgebraIII/Trig and there is a greater emphasis on problem solving. Topics will include advanced algebra, functions, graphs, polynomials, zeros of polynomials, rational functions, exponential and logarithmic function, trigonometric functions, trig identification, and graphs, application of trig, systems of equations, matrices and their uses. 1 mathematics credit

INTRO TO CALCULUS Grade 12

Prereq: Permission of Academic Dean

Calculus is an Honors mathematics course designed to introduce students to the problem solving techniques needed for use in Engineering, Economics, and Physics. This course provides a basic understanding of Calculus so that the student will be prepared for an entry-level college Calculus course. This course covers advanced algebra topics along with functions and limits, the derivative and its applications. 1 mathematics credit

ADVANCED PLACEMENT CALCULUS Grade 12

Prereq: Permission of Academic Dean

Advanced Placement Calculus (AP) is a year course in elementary functions and introductory calculus; it places primary emphasis on an intuitive understanding of the concepts of differential and integral calculus and on experience with its basic techniques and applications. It is comparable in context and emphasis to a first course in calculus for scientifically oriented freshmen in many colleges and universities. It is expected that all students enrolled in this course will take the AP exam in May. 1 mathematics credit

COLLEGE READINESS MATH Grade 12

Prereq: Tech Alg II, Tech Geometry or Equivalent

This course is 100% self-paced using web-based software. The goal of this class is to prepare students to take the Accuplacer test. Many community colleges use the results of this assessment, in conjunction with your academic background, goals and interests, to help determine your course placement. College Readiness Math will first review basic arithmetic and Algebra I concepts. Then, there will be a focus on college level math; including skills found in intermediate algebra through precalculus courses. 1 mathematics credit

SCIENCE**EARTH SYSTEMS** Grade 9**Honors, College Prep, Applied**

Earth Systems Science is designed to provide the foundation for further rigorous study in Biology, Chemistry and Physics. Through the study of Earth Systems Science, students learn about the principles and practices of Earth Science and Chemistry. The course focuses on energy, change, cycles, development of ideas and how these are modeled in both earth systems and chemistry. Using an inquiry based, problem solving model the course supports and encourages the development of a scientifically literate student who will be able to make accurate observations, develop and test theories, evaluate alternatives, and make informed decisions on scientific, technological and environmental issues. 1 science credit

HONORS, COLLEGE PREP, APPLIED BIOLOGY Grade 10

Honors Prereq: Honors Earth Science or Recommendation of Academic Dean

Biology is designed to increase the student's understanding of systems, models, scale, and the concepts of constancy and change. The student will increase their skills in scientific inquiry and technical design. Students will explore how society interacts with science and technology, and how human history impacts the nature of science. This course will cover biodiversity, bioethics, ecosystems, cells, cellular chemistry, heredity, reproduction, and evolution. Students will explore body systems through frog dissection. 1 science credit.

PHYSICS

Honors, College Prep, Applied

Physics exposes students to the applications of systems, models and scale in science and technology. Students plan, conduct and analyze data from experiments and use the data to create and test technological designs to meet specific needs. Students explore the nature of energy, force, and motion. 1 science credit

Honors: Grade 11 Prereq: Honors Algebra II/Trig or Permission of Academic Dean

College Prep: Grade 11-12 Prereq: Geometry, Algebra 2 enrolled concurrently

Applied: Grade 11-12 Prereq: Algebra 1/or Permission of Instructor

HONORS CHEMISTRY

Grade 12

Prereq: Honors Physics or recommendation by Academic Dean

This rigorous course is an introduction to the enterprise of chemistry. This course will help one understand the essential principles and facts of chemistry and its fundamental importance in an ever increasingly scientific and technological world. The central theme of the course is that properties of matter are a consequence of the structure of matter. The student will be introduced to the language of chemistry—descriptive, symbolic and quantitative. Topics include Measuring and Calculating, Matter, Atomic Structure, Chemical Formulas, The Mole, Chemical Reactions, The Periodic Table, Chemical Bonding and Molecular Structure, The States of Matter, Solutions, Chemical Equilibrium, Acids and Bases, Oxidation-Reduction and Electrochemistry, and Nuclear Chemistry. 1 science credit

CHEMISTRY

Grade 12

Prereq: Physics, Applied Physics

College Prep, Applied

This academically challenging course is designed as an introduction to the enterprise of chemistry. Chemistry is very much a part of our society and reaches into almost every facet of life. This course will help one understand the principles of chemistry so that one may feel confident and informed in an ever increasingly scientific and technological world. The central theme of the course is that properties of matter are a consequence of the structure of matter. The student will be introduced to the language of chemistry—descriptive, symbolic and quantitative. Topics include Measuring and Calculating, Matter, Atomic Structure, Chemical Formulas, The Mole, Chemical Reactions, The Periodic Table, Chemical Bonding, The States of Matter, Solutions, Acids and Bases, Oxidation-Reduction and Electrochemistry, and Nuclear Chemistry. 1 science credit

SOCIAL STUDIES

The discipline of social studies is important for all students. Social studies moves far beyond facts and dates; social studies classes explore the basic human rights and diversity of cultures in our own and other countries. Through the disciplines of social studies students will gain a better understanding of the present by looking at the past. Major themes of human rights, cultural diversity, and understanding our modern world are relevant to all students. Whether students plan to enter college or the business world after graduation, they will find that these topics are major issues that must be confronted and understood to become a good citizen in their community.

GLOBAL EXPLORATIONS Honors, College Prep, Applied Grade 9

All students entering ninth grade at Maranacook are required to take Global Explorations. This is a course that is designed to expose students to many of the concepts and skills they will be using in Social Studies throughout their time at Maranacook. Topics of study include geography, world cultures and religions, global economics, and political systems. The class culminates in a Model United Nations simulation on a current global issue. The course addresses Learning Results Standards in Research Skills, Geography, Economics, and Civics and Government. Students must pass this course for graduation. 1 global social studies credit

AP WORLD HISTORY Grade 10

Prereq: Honors Global Explorations

AP World History is a rigorous academic course that demands maturity and sound work habits from the student. The course traces the development of world history from 8000 B.C.E. to the present and emphasizes the analytical and writing skills necessary for success in a college-level history course. To this end, the course devotes considerable time to the critical evaluation of primary and secondary sources, analysis of historiography, oral presentations, and short essays. Students enrolled in the course are expected to do summer

reading in preparation for the course and take the AP Examination in May. Those who score well may receive college credit. This course fulfills one of the three required credits in Social Studies for graduation. 1 world history social studies credit

WORLD HISTORY Honors, College Prep, Applied Grade 10 Prereq: Global Explorations

The course traces the development of world history from the earliest civilizations to the present. The class begins with a study of the multitude of cultures of past and present starting with the development of early civilizations and the oldest cultures. The course surveys the ideals of democracy and the origins of republican government. It addresses the roots of modern conflict and explores the rise of organized religion and its connection to eastern and western civilization. The course then moves on to examine how imperialism and colonialism have impacted world cultures and the reactions of cultures to this interference. The course investigates the rise of communism as a reaction to western domination and examination of the current trend toward consumerism in the eastern world and its impact on the future. Examinations of modernity and the possibilities for the future bring the course to conclusion. 1 world history social studies credit

AP U.S. HISTORY Grade 11 Prereq: AP or Honors World History

Honors Placement U.S. History (AP) is designed to provide students the factual knowledge necessary to deal critically with the problems and materials in American History and to prepare students for the AP exam. Students will learn to assess historical materials, their relevance, reliability, and importance and to weigh the evidence presented in historical scholarship. Students should be proficient in note-taking from printed materials, lectures and discussions. Members of the class will write essay exams, analytical and research papers. They will be able to express themselves clearly and precisely and cite sources. Summer Readings are a requirement of this course. It is expected that all students enrolled in this course will take the AP exam in May. 1 U.S. History social studies credit

U.S. HISTORY Honors, College Prep, Applied Grade 11 Prereq: World History

U.S. history is a two semester course that is required for graduation. Students will explore U.S government and citizenship as well as some of the major events and ideas of the last 250 years. A greater emphasis will be placed on the 20th Century (post 1877). In addition students will learn about major leaders and current events that shape the world we live in today. 1 U.S. History social studies credit

SOCIAL STUDIES ELECTIVES

LIVING HISTORY (19TH CENTURY) An Independent Study (with recommendation of Academic Dean) Grades 9–12

Semester

This course involves an in-depth study of the post Civil War period in rural America. Students will learn first-hand about life during this period during a total involvement experience at the Morrill Farm. For four days and three nights the students (and teacher) will be members of a 19th century farm family doing daily work, enjoying social events and being influenced by the economics and customs of the 1870's. A pre-visit paper on rural life in Maine in the 19th Century is required. Students will conduct research in primary source documents to prepare for a presentation on both an individual and group basis. Each student will also keep a journal while at the Morrill Farm and complete two research papers following the live-in. The teacher will meet with the students on both an independent and group basis. ½ elective credit

SOCIOLOGY CP Grades 11 – 12 Semester Prereq: None

Sociology is the study of human social life referring to everything related to the interaction of human beings in groups. Students in this course will learn to use “sociologists’ tools;” observation, description, analysis and prediction, to explore how groups of people act, react, and interact in various situations. Class discussions, group and individual projects will be important parts of this course. ½ elective credit

PSYCHOLOGY CP Grades 11 – 12 Semester Prereq: None

Psychology is the study of human behavior. Students will explore the influences of environmental and physical conditions, including heredity, on the motivations and emotions involved in human interaction. Class discussions and group and individual projects will be an important part of this course. ½ elective credit

CURRENT GLOBAL ISSUES CP Grades 11-12 Semester Prereq: None

The purpose of the Current Global Issues course is to develop each student’s understanding of the issues, concerns and crisis that shape both national and international policies. Students will explore the historical origins and the current stresses on the ongoing and critical issues of today’s world. Emphasis will also be placed on determining both the causes of and the future of these issues. Both U.S. and international responses to these situations will be developed. Students will be exposed to a variety of different sources and viewpoints and will increase their critical analysis processes in doing so. ½ elective credit

HISTORY VS HOLLYWOOD: CULTURE AND HISTORY THROUGH FILM CP Grades 11-12 Semester Prereq: None

This course is designed to study History and Culture through films. Students will critically analyze a couple of important questions. First of all, how accurately does Hollywood portray historical events and characters? What dangers exist for American democracy if

many people believe in and understand a history that never happened? Using the films, and primary and secondary sources, students will be asked to analyze the accuracy and impact of Hollywood films about history. Class discussions, group and individual projects will be important parts of this course. ½ elective credit

Advanced Placement Comparative Government and Politics

This course focuses on government and politics in other countries and provides a theoretical framework to compare political systems around the world. The student will come to understand the political complexities of our global environment, and gain some understanding of both commonalities and differences among modern political systems. (Pending Board approval and budgetary requirements.) Seniors only 1 credit

ETHICS

Grade 12

Prereq: Permission of Instructor

This course is designed to foster critical thinking and rational decision-making in the discussion of controversial ethical issues and dilemmas. Students will improve their capacity to reason effectively, weigh and use evidence, understand multiple perspectives, and use critical analysis as they address scientific and moral issues. Among the topics to be discussed are ethical theory, physician-patient relationships, euthanasia, and environmental ethics. 1 elective credit

HEALTH AND PHYSICAL EDUCATION

HEALTH

Grade 10 Semester

Health education covers ten areas: consumer health, community health, environmental health, family life, nutrition, personal health, first aid and safety, substance use and abuse, prevention and control of disease and disorders, growth and development. Students will work on cooperative activities and will contribute a major project to the class. ½ health credit

PHYSICAL EDUCATION 9

Grade 9 Semester

Prereq: None

This course is designed to provide instruction and opportunity for students to increase motor skill competency. Included in class activities is an introduction to the principles and concepts of physical fitness. The activities of this course include: badminton, stunts & tumbling, floor hockey, broomball, recreational games, fitness activities, and softball. ½ physical education credit

PHYSICAL EDUCATION 10

Grade 10 Semester

Prereq: PE9

This course provides continued opportunity for students to increase motor skill competency. A focus of this course is the application of physical fitness principles and concepts through participation in an eight week personal fitness program. Other activities include: volleyball, ultimate frisbee, weight training and tennis. ½ physical education credit

PHYSICAL EDUCATION 11

Grade 11 Semester

Prereq: PE9 & PE10

This course is the culmination of the required physical education courses. This is the final opportunity for motor skill competency development. Students will be responsible for planning and participating in personal fitness activities throughout the semester. Other activities in the course include: canoeing, golf, badminton, volleyball and personal fitness programs. ½ physical education credit

The Physical Education Department is requesting consideration for adding the following electives to the Physical Education course selection beginning in the academic year 2009-2010. The addition of elective courses is not a recommendation for replacing any of the currently required courses. It is instead an opportunity for the second semester junior and senior student to remain physically active.

INTRODUCTION TO SPORTS OFFICIATING

Recommended level: 11(2nd sem.)-12

Prereq: PE 9-11

This course is designed to introduce students to aspects involved in sports officiating. Students will develop an officiating philosophy, code of ethics, and equitable standards for competition. Students will participate in classroom discussion, fieldwork, and complete an officiating exam in the sport of their choice. ½ elective credit

PERSONAL WELLNESS

Recommended level: 11(2nd sem.) – 12

Prereq: PE 9-11

The course is designed for the student wanting an opportunity to participate in a self-directed personal fitness workout program. The student will design and engage in their workout plan, maintaining a fitness and nutrition portfolio for the semester. ½ elective credit

ADVENTURE BASED LEADERSHIP

Recommended level: 2nd semester 11

Prereq: PE 9-11

This course is designed for the student planning on participating in the “senior helper” program. During the course students will develop the leadership, facilitation, and debriefing skills needed to run the adventure based and cooperative activities used to support the 6th and 9th grade opening activities for new advisees. ½ elective credit

OUTDOOR SKILLS

Recommended level: 11-12

Prereq: PE 9-10

This course is designed for the student who is interested in being in the out-of-doors. Students will participate in a variety of outdoor activities and experiences: kayaking, geo caching, hiking, biking, snowshoeing, cross country skiing and seasonal camping. ½ elective credit

VISUAL AND PERFORMING ARTS

Any one-year art, music, or theater course or combination of two semester courses may be used to fulfill the Fine Arts requirement.

ART

Art is a universal language. It provides visual information about individuals, society, and cultures. There are no right or wrong answers in art, only tools, techniques, and opportunities for creative self-expression. The following art courses provide the environment, the materials, and the expertise to challenge your aesthetic senses and allow you to communicate visually.

INTRO TO ART Grades 9-12

This course is a survey of a variety of art-making processes. Students will study elements of art and principles of design through many mediums that include drawing with ink and pencil, painting, collage, printmaking, creation of altered books, basketry, and tapestry weaving. They will also study the art of world cultures and historically significant artists. 1 Fine Arts credit

DRAWING I Grades 10-12 1st Semester

Students will learn a variety of drawing techniques in art mediums such as ink and graphite pencils with an emphasis on rendering “realistic” images from observation. They will learn to achieve desired lighting effects, textures, and the illusion of three-dimensional form and space. Subject matter will include still life, models and photographic images used to create self-portraits. This course is a prerequisite for students planning to take Drawing II. ½ Fine Arts credit

DRAWING II Grades 10-12 2nd Semester Prereq: Drawing I

Students will continue to develop skills and techniques begun in Drawing I with an emphasis on color, design, and conceptual problem solving using mediums such as (dry) pastels, oil pastels, colored pencils, oil sticks and compositions that combine mediums. Historically significant artists and styles will also be studied. ½ Fine Arts credit

PAINTING Grades 10-12 Prereq. Drawing I & II and Intro to Art are recommended

Students will learn fundamental painting techniques in watercolor and acrylic on canvas. They will explore decorative and functional art forms and study color and design theories, historically significant artists, and multi-cultural design styles. The paintings will be in a variety of size formats and subject matter that will include design, realism, surrealism and abstraction. 1 Fine Arts credit

PRINTMAKING Grades 10-12 Semester Prereq: Intro to Art, Drawing or Painting are recommended

Students will explore a variety of printing techniques such as block-printing, screen-printing, collagraph and mixed media mono-prints. Printmaking usually involves the production of multiples or a series of identical or similar works. Students will create their own original designs for their print series. Emphasis is placed on graphic design and mastery of the various printing techniques. ½ Fine Arts credit

PHOTOGRAPHY Grades 11-12 Prereq: Previous high school art class required

Students will study the principles of basic photography as an Art form. Technical photographic processes and design/composition are emphasized during the first semester. This includes an introduction to the history of photography, 35-mm SLR camera operation, film development, and processing and mounting black and white prints. The second half of this course expands on these skills and processes with an emphasis on conceptual problem solving, visual relationships, documentary photography and individualized projects. Students will also have the opportunity to create multi-media, digital photographic presentations. **A 35 mm, manual SLR camera is necessary for this course. The Art Department has a limited number of this type of camera for student use. A \$25 non-refundable use fee and a loan contract are required for the use of a school-owned camera. 1 Fine Arts credit

DIGITAL PHOTOGRAPHY Prereq: Previous high school art class required

This course will provide the student with the foundation of discovery and practice of various applied digital and standard photography techniques. Students will use digital cameras and Adobe Photoshop software to explore the potential of image enhancement and manipulation, multimedia applications, and creating professional digital photographs. Participants will share their understanding of the various processes and composition through exhibitions, classroom presentations and critiques. Students are encouraged to use their own digital cameras. However, school-owned cameras are available for student use for a non-refundable \$25.00 use fee. 1 Fine Arts credit

HONORS STUDIO ART Grades 11-12 Prereq: Success in previous art classes and recommendation from the Art teachers
This art course is designed for highly motivated art students who want honors study in specific art mediums. Students create a portfolio of work that may be documented in slide form. Each student develops an individualized program that includes teacher-assigned and self-designed projects. This will also include an ongoing journal/sketchbook and research of art careers, post-secondary education opportunities and the works of other artists. 1 Fine Arts credit

CERAMICS Grades 10-12 Semester Prereq: Intro to Art is recommended
Students will experience the creative potential of clay. Using the potter's wheel and hand-building techniques, they will explore the sculptural and functional qualities of the medium. They will be introduced to the use of earthenware and low-fire clays, decorative use of slips, a variety of techniques for glaze application, and the cultural and artistic significance of ceramics throughout history. ½ Fine Arts credit

MUSIC

The study of music is a valued and integral part of education. Our goal is to enrich our students' lives through music; to increase their knowledge of music and to guide them toward a lifelong understanding and love for music. Music teaches us that not all aspects of life are definable; and that every question does not have one right answer. Every student should experience a feeling of pride and success in some musical endeavor whether (s)he plays an instrument, sings or learns to appreciate different kinds of music.

CONCERT BAND Grades 9-12 Prereq: None
This is a performance-based course in which students are involved in solo, ensemble, and full band performances. Students will receive individual, sectional and full band instruction. They will explore a wide variety of musical styles including Jazz, Popular, Classical, Folk and Traditional. Individual progress as well as group participation is emphasized. Scheduled public performances are a required component of this course. 1 Fine Arts credit

JAZZ BAND Grades 9-12 Prereq: Audition
This is a course for a select group of students of brass, woodwind and rhythm instruments. They will study and perform different styles of jazz and contemporary music. Scheduled public performances are a required component of this course. This class meets every other morning before school. ½ Fine Arts credit

CONCERT CHORUS Grades 9-12 Semester or Year Prereq: None
This course is open to any student regardless of musical background. Students learn techniques of singing and reading music through the performance of a variety of music that may include popular, classic, folk, rock and traditional pieces. Public performances are required. This class meets on a regular class schedule.
½ credit per semester; 1 Fine Arts credit for full year

SHOW CHORUS Grades 9-12 Prereq: Audition
This is a small, vocally balanced group of singers. Students learn the skills and techniques of singing and staging performances. The variety of music used in this course may include Broadway, Popular, Classical, Folk and Traditional pieces. Public performances are required. This class meets every other morning before school. ½ Fine Arts credit

AMERICAN MUSIC SINCE 1900 – FROM BLUES TO HIP HOP Grades 9-12 Semester Prereq: None
This course offers an opportunity to enhance your enjoyment and skills as a listener no matter which music you like. We'll explore the historical and cultural elements of Western music that give it meaning and drive its evolution. The focus will be on 20th & 21st Century music of America, including the growth of Blues, Jazz, Rock and Roll and contemporary styles such as Rap and Hip Hop. You will develop new skills in listening, speaking, researching, writing about and understanding music as we explore a fascinating aspect of American life. ½ Fine Arts credit

AMERICAN MUSIC SINCE 1900 – STYLES, STAGE, SCREEN & STUDIO Grades 9-12 Semester
Prereq: Blues to Hip Hop or Instructor Permission
This course will take up where Blues to Hip Hop left off. Topics will include: elements of musical styles, the science of sound, technology in the musical arts, musical theater, the business of music, and role of music in films. You will explore the influence of American music all over the world and other contemporary themes. This course will increase your understanding of the art form and significantly improve your listening enjoyment. Prerequisite: Blues to Hip Hop or 2-3 years of instrumental or voice study. ½ Fine Arts credit

MUSIC THEORY Grades 9-12 Semester Prereq: None
Music theory is a semester course taking a student from the very beginning of reading music to a point where he or she can read musical scores, write melodies, or arrange a selection for small groups of instruments or voices. The first semester focuses on notation of pitch and rhythm, scales, chords, keys, etc. The second semester builds on that foundation to allow a student to create compositions.
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arrange music, or to analyze others' works. Students may take both semesters even if they already have some music reading skills since much of the work is done independently at the individual's own pace. ½ Fine Arts credit

MODERN AND CLASSICAL LANGUAGES

In today's global economy it is imperative that America's work force understand other cultures and languages in order to compete. Studying a foreign language not only exposes students to diverse cultures and expands their understanding of our world, but it also helps students to better understand their own language and how it works.

FRENCH

FRENCH I Grades 9-12

Prereq: None

First-year French introduces beginning language students to French language and culture. Students develop basic proficiency in listening, speaking, reading and writing. 1 elective credit

FRENCH II Grades 9-12

Prereq: French I

This course is a continuation of French I. It will expand upon previously acquired skills, vocabulary and cultural knowledge. Students will continue to work to develop their understanding of the structures of the language through conversation, reading, writing and listening. There will be more emphasis on longer blocks of language and students will be expected to speak and write using more complicated grammatical structures. 1 elective credit

FRENCH III Grades 10-12

Prereq: French II

This course is a continuation of French II. Students will continue to develop their language skills and vocabulary. They will learn more difficult structures and expressions. This course places more emphasis on the development of conversational fluency. Students are expected to speak spontaneously in French. Students will do more reading directly from French sources. 1 elective credit

FRENCH IV Grades 11-12

Prereq: French III

By year's end, students will have seen most of the grammar that they will need at the university level. The course will be conducted in French, and students are expected to try to converse in all situations in French. We read books such as "Le Petit Prince" and "Le Fantôme de L'Opéra" and listen to podcasts of various French radio shows. 1 elective credit

FRENCH V Grades 11-12

Prereq: French IV

This course is designed for students who want to continue to develop and refine their skills. The focus is on conversational fluency. There is a complete review of grammar using the "Une Fois Pour Toutes" textbook. We listen to current events on French podcasts and read "Les Trois Mousquetaires" along with other items selected by the students. 1 elective credit

GERMAN

GERMAN I Grades 9-12

Prereq: None

This is an introductory course, which emphasizes the development of listening, speaking, reading and writing skills. The importance of practical vocabulary will be stressed. Basic language structures will be introduced. Culture will be presented through a variety of activities and projects. 1 elective credit

GERMAN II Grades 9-12

Prereq: German I

In this second year language course, we place continued emphasis on the development of speaking, vocabulary development, reading and writing. Using the past tense and understanding sentence structure will be emphasized. Culture is incorporated into all lessons. Students take the National AATG Level 3 Language exam to assess competency. 1 elective credit

GERMAN III Grades 10-12

Prereq: German II

This course further develops the skills of listening, speaking, reading, and writing in German. Students participate in organized classroom discussions and speak spontaneously in German. Students improve skills with interviews, skits, factual essays and creative writings. German cultural activities are integrated into the curriculum. Students take the National AATG level 3 Language Exam to assess competency. 1 elective credit

GERMAN IV Grades 11-12

Prereq: German III

In this class, students further develop upper-level vocabulary and grammar using listening, speaking, reading and writing skills. Since conversational fluency will be a major goal of this course, students will speak primarily in German. Students will participate in a variety of activities including journal writing, conversational activities, class discussions, plays, skits, video making and attend an immersion day at Colby College. Cultural activities take place throughout the year. Students may take the National AATG level 3 Language Exam to assess competency. 1 elective credit

AP GERMAN Grades 11-12

Prereq: German IV

This course is designed as a final preparation for the AP German Language Examination. Students will develop a strong command of vocabulary and structure, an understanding of spoken German in various conversational situations, the ability to read newspaper and magazine articles, contemporary fiction and non-technical writings without the use of a dictionary. They will practice expressing ideas fluently and accurately orally, writing, and interpreting films. German culture is a significant part of the curriculum. They will attend an immersion day at Colby College. The class will be conducted almost exclusively in German. (College credit will be determined based on the results of the AP exam in May.) 1 elective credit

SPANISH

At all levels of language study, current events, historical influences, and geographical influences are discussed.

SPANISH I Grades 9-12

Prereq: None

This first year course introduces the beginning language student to Spanish language and culture and includes the basic skills of speaking, reading, writing and listening. The course places special emphasis on developing conversational skills. Students do this by learning conventional patterns and listening to actual dialogue. The first year stresses basic Spanish grammar and writing skills. 1 elective credit

SPANISH II Grades 9-12

Prereq: Spanish I

This course builds on the skills of Spanish I. It places more emphasis on the development of reading skills through articles and short stories. Students learn more advanced grammatical concepts. This enables the student to write short passages in Spanish. Conversational skills are developed more fully. Students are encouraged to speak in Spanish. 1 elective credit

SPANISH III Grades 10-12

Prereq: Spanish II

This course continues to strengthen conversational, reading and writing skills. Students develop their oral skills by spontaneous speech and class discussions in the language. Writing skills are also developed. More complex readings are from Spanish and Hispanic sources. 1 credit

SPANISH IV Grades 11-12

Prereq: Spanish III

In this fourth year course, conversational fluency is a goal. Students read excerpts from the classics of Spanish and Latin American literature. They write essays and journals. In addition, the course exposes the students to as many forms of communication as possible. All this aids in oral comprehension. 1 elective credit

AP SPANISH Grades 11-12

Prereq: Spanish IV

This course is designed to prepare students for the AP Spanish Language Examination. To do so, students will continue to develop and refine their skills in listening, speaking, reading and writing. They will participate in a variety of activities including: journal writing, conversational activities, class discussion, performing plays, skits, and reading literature. The class will be conducted almost exclusively in Spanish. (College credit will be determined based on the results of the AP exam in May.) 1 elective credit

CAREER PREPARATION

An important part of the school's task in education is to help students develop the habits and skills they need to be successful in the workplace. Within the last few years, Maranacook has expanded its school to work options by offering new programs that help to prepare students for the eventual transition into a satisfying career. These offerings, along with our Work Experience programs, connect our students to the reality of careers after high school.

BUSINESS ELECTIVES**ACCOUNTING I** Grades 11 – 12

Prereq: None

This is an introductory course designed to familiarize the student with the basic theories and principles of accounting. It introduces the student to the accounting cycle, the use and construction of the worksheet, financial statements. Computers may be used in this course. This course is appropriate for students interested in business-related careers. It is also recommended for any student considering college in any business administration related field. 1 elective credit

ACCOUNTING II Grades 11 – 12

Prereq: Accounting I

This course is designed for students with a serious interest in accounting. The course expands on theories and applications covered in Accounting I. Additional topics include partnership accounting and introduction to corporate accounting. 1 elective credit

BUSINESS PRINCIPLES AND MANAGEMENT Grades 11 – 12

This full-year course includes the study of business ownership, marketing, purchasing, production, management functions, and government/business relations. Most principles are learned through projects. The course also includes a job shadow in December in a field of the student's choice – preferably a field requiring post high school education. This course is recommended for any junior or senior who is thinking about a college program in business administration. It is also for students who plan to major in management, marketing, public relations, advertising, accounting, finance (banking), retail/fashion merchandising, or any other business related field. 1 elective credit

CONSUMER ECONOMICS Grades 11 – 12 Semester

All the practical things you wished you learned in high school but somehow didn't. This course will teach consumer issues which everyone needs to know to make wise economic decisions following high school whether college bound or heading into the work force: maintaining checking accounts, retail installment and revolving credit card agreements, bank loans, (including student college loans); rental agreements, leases, apartment hunting; personal income taxes; buying insurance (focus on auto); how to buy a new/used car; investments; mortgages; applying for a job (focus on interviewing skills); making wise consumer decisions in the supermarket, on major appliances, in the clothing store; consumer rights. This course is open to seniors, (also juniors who anticipate difficulty scheduling this course in their senior year.) ½ elective credit

YEARBOOK I and II 1 credit - Juniors and Seniors

Learn to use Josten's Yearbook Avenue, a desktop publishing program, while actually designing *The Concord*, Maranacook's yearbook, and preparing the entire book for publication. This class is appropriate for juniors and seniors who want to learn the desktop publishing program in preparation for working on the yearbook.. Juniors may also take this class second semester or for a full year in preparation for publishing the yearbook. Seniors must take the class first semester or for a full year to meet publication deadlines. 1 elective credit.

COMPUTER ELECTIVES

TECHNOLOGY AND CAREER EXPLORATION Grade 9 Full Year (1/2 Block with Technology Study Hall) Prereq: None
In this Freshman course, the student will explore four different components of Microsoft Office 2003: Word, Excel, PowerPoint and Publisher. They will utilize Web 2.0 tools and integrate technology with other core classes. Keyboarding speed and accuracy will be emphasized through the MicroPace program. Students will begin a career and college search through CollegeBoard's MyRoad program. In the Career Exploration unit, students will: research careers, produce a career presentation, create an informational career brochure, and prepare a resume package. All freshmen will be enrolled in this class. ½ computer credit

MICROSOFT WORD 2003 Grades 10– 12 Semester Prereq: Permission of Instructor

This course introduces the student to one of the most powerful word processing programs in business today. The student will learn how to use this program for personal and school use and/or as a foundation for desktop publishing. Taught on IBM compatible computers. ½ computer or elective credit

MICROSOFT EXCEL 2003 Grades 10 – 12 Semester Prereq: Permission of Instructor

The semester will be spent using Microsoft Excel, a spreadsheet program that allows you to organize data, perform calculations on the data, make decisions, create graphs and charts based on the data and develop professional looking reports. This is great for science/math students who want to create impressive reports. Taught on IBM compatible computers. ½ computer or elective credit

POWERPOINT/PUBLISHER Grades 10 – 12 Semester Prereq: Permission of Instructor

First Quarter, the student will create electronic slide show presentations with tables, charts, graphs, sound, movies, and animation using PowerPoint. Second Quarter, the student will use Microsoft Publisher, our desktop publishing program. Publisher is a powerful and versatile page layout program which allows you to combine text and graphics, and gives you the freedom to create materials in the program itself and/or import text and graphic files from other programs. Students who enjoy graphic design or who want to publish – Tingley Brook, The Bear, Yearbook or their own work will enjoy this program and find it to be both fast and friendly. ½ computer or elective credit

WEB DESIGN/HTML PROGRAMMING Grades 10-12 Semester Prereq: Permission of Instructor

Students will use Microsoft Expressions to learn all aspects of web site development, using both object development and HTML in a classroom setting. The major topics of this course will consist of web page layout, typography, color, editing, and graphics. Students will also utilize image-editing software for the purpose of publishing pictures and graphics on the web. Students will design websites for a variety of personal and business uses. ½ computer or elective credit

VISUAL BASIC PROGRAMMING Grades 11-12 Semester Prereq: Permission of Instructor

This course is for the beginning programmer with little to no prior programming experience. Students will be introduced to programming skills using Visual Basic 2005 Express Edition as a foundation language. Programming is taught using a games-based approach that makes learning beginning-level programming fun and easy. ½ elective credit

JAVA SCRIPT PROGRAMMING Grades 10-12 Semester Prereq: HTML

Create dynamic Web pages using the popular Web scripting language, JavaScript. This course is perfect for programmers with prior knowledge of HTML. Students will learn the popular scripting language that is widely supported in Web browsers and other Web tools. JavaScript adds interactive functions to HTML pages. This course will also introduce students to Document Object Model (DOM) specification published by the World Wide Web Consortium (W³C). This course features hands-on projects and a step-by-step methodology. ½ elective credit

INDUSTRIAL ARTS

INTRODUCTION TO INDUSTRIAL ARTS Grades 9 – 12 Year Prereq: None

In this course students explore the appropriate use of tools and materials. Students study introductory woodworking, metalworking and technical drawing. The course focuses on the importance & practice of safety, planning and completion. 1 elective credit

WOOD DESIGN Grades 10-12 Year Prereq: Intro to IA

This course is an in-depth experience in woodworking. It focuses on solving problems related to more Honors student projects. Emphasis is placed on creative design and more specialized use of tools and machinery. 1 elective credit

HONORS WOOD DESIGN Grades 11-12 Year

Prereq: Wood Design completion with high achievement or Permission of Instructor

This course expands upon the design and construction techniques of Wood Design. Students will explore the properties and qualities of wood that lend themselves to more free form, creative work. They will be exposed to various artists and cultural contributions of the woodworking arts throughout history. Students will design and create works in wood that show an understanding of line, shape and form. They will be expected to record plans and progress through a sketchbook and/or notebook. The course will culminate with a student exhibition. *This course fulfills the graduation requirement for a fine arts credit.* 1 Fine Arts credit

ENGINEERING DRAWING AND DESIGN Grades 10-12 Semester Prereq: Intro to IA or Permission of Instructor

This elective course will provide the opportunity to understand the complexities of engineering drawing using CAD software extensively. Students will become proficient with Key Creator for mechanical engineering; Lego Mind Storms for robotics programming and problem solving using Lego models; and West Point Bridge Designer for civil engineering. ½ elective credit

ARCHITECTURAL DRAWING AND DESIGN Grades 10 – 12 Semester Prereq: Intro to IA or Permission of Instructor

This elective course will provide the opportunity to understand the complexities of architectural design, provide a technical knowledge base for architecture, and complete the design and drawing of a set of house plans using Chief Architect CAD software. Students will also research historical architectural styles and their impact on current design. They will present their findings using PowerPoint. ½ elective credit

SMALL ENGINES Grades 10 – 12 Semester Prereq: Intro to IA or Permission of Instructor

Small Engines and Power is a course that will give students the opportunity to work in the area of engine mechanical systems. Emphasis will be on engine systems, two and four cycle theory, and safety and the proper use of tools. A portion of the course is devoted to welding and metal fabrication. ½ elective credit

DIRECTED STUDIES IN IA Prereq: Application Process with Proposal

An advanced course designed to accommodate a variety of interests. It allows motivated students to enhance their skills. They work independently and problem solve as they pursue their own interests through projects that they research, select and create. The instructor acts as a facilitator and resource. Students are required to maintain a journal and prepare a portfolio of their work. See Instructor for application materials. 1 elective credit

ADDITIONAL ELECTIVES

WORK EXPERIENCE Grades 9 – 12 Semester/Year Prereq: Permission of Guidance Counselor

Students may participate in a variety of work experiences at school by assisting teachers, including teachers at the middle school, assisting in the office, library or in the food service program. The application forms are available in the guidance office. Credit is awarded by semester. Students may participate in this activity in addition to enrolling in the six required courses. ½ elective credit. 16

SERVICE LEARNING BY DESIGN (formerly PATHWAYS) Grades 10-12 Semester/Year Prereq: Interview with Instructor
Students in collaboration with the instructor design a service learning project that would benefit the school or the community. The project could be for career exploration or community service. This can be an individual or group project. ½ or 1 elective credit

OFF-SITE WORK EXPERIENCE Grade 12 Semester/Year Prereq: Permission of Instructor/Interview with Instructor
Students who would like to combine their career aspirations with a work experience may interview to participate in a job experience outside of the school. Students are required to enroll in consumer economics for the classroom portion of the program. Participating students must find a job and submit an employee contract agreement. Individual work plans are developed with the instructor and guidance counselor. Credit is awarded by semester. 1 elective credit per semester

SENIOR PROJECTS Grade 12 Semester/Year Prereq: Interview with Supervisor and Acceptance of Proposal
Seniors interested in acquiring new learning or answering an essential question can spend one semester or one full year on an independent learning experience. Seniors must develop a written proposal and make arrangements with a mentor to work on the project and have it approved by the MCS supervisor. In the spring, seniors must have a public presentation of the results of their study or work. Projects such as making a documentary film, interning with a classroom teacher, learning to make pottery, jewelry or other three-dimensional art, refurbishing an antique car, writing and producing a musical play, establishing a school store or a student café, designing and building a piece of furniture, interning with an equine therapist or a health professional, traveling to a foreign country or participating in a travel experience in the U.S., learning to play a musical instrument, or developing skill in a martial art are examples of valuable learning experiences and would be considered appropriate as Senior Projects. 1/2 or 1 elective credit

ASPIRATIONS & VIRTUAL HIGH SCHOOL PROGRAMS

ASPIRATIONS PROGRAM Grades: 11 - 12

Prereq: Application with Guidance Counselor

A partnership with the University of Maine at Farmington and Augusta allows Juniors or Seniors with a “B” or better average to take freshman-level college courses at UMF or UMA at no charge. Successful completion of these courses is worth 3 college credits that will transfer to most college and universities. Each class will also be worth 1 elective high school credit. Registration opens the 3rd or 4th week in August and classes are available on a first-come, first-served basis. If you are interested in pursuing this option, please schedule time with your guidance counselor.

VIRTUAL HIGH SCHOOL Grades: 11 - 12

Virtual High School (online) classes are open to juniors and seniors with seniors given first priority. MCHS is allotted 15 slots per semester through the VHS consortium. VHS offers over 200 full semester courses in Arts, Business, English Language Arts, Foreign Language, Life Skills, Mathematics, Science, Social Studies, and Technology. In addition, VHS offers Advanced Placement (AP) full year courses and pre-advanced placement semester-length courses. If you are interested in taking an online course, go to govhs.org to take a self-grading questionnaire to see if you are the kind of student that would be successful in an online environment. VHS courses may NOT replace specific departmental high school graduation requirements without prior approval from the Academic Dean. Application in guidance.

SPECIAL EDUCATION

What does Special Education look like at Maranacook Community High School? The high school Special Education programs are an integral part of our educational approach to provide each student the opportunity and support necessary to learn in the least restrictive, and most supportive, educational environment. The high school offers a continuum of services, which include the Learning Center and the Transitional Skills Program. The Learning Center provides support through a structured study hall approach, which assists students in accessing their regular education courses, as well as developing organizational and study skills. In addition, it provides remedial direct instruction in developing reading and writing skills. The Transitional Skills Program provides instruction and practice in functional living skills, including utilizing community resources and supports in addition to career exploration through work experiences.

All of the programs offered at the high school use the inclusion model of education, whenever possible. This approach to education would not be successful without the wonderful group of highly qualified and supportive educational technicians, teachers, staff and administrators, who provide support in and out of regular education classes and to special educators. This approach also mirrors the

Maranacook Community High Schools mission statement, which promotes the belief that every individual can flourish academically and socially, according to his or her ability.

The Special Education departments in both the high school and middle school work closely together to help ensure a seamless transition from the middle school setting to the high school community, where the focus becomes post-secondary planning. Participation in these programs is determined through the Pupil Evaluation Team (PET) process.

CATC

Capital Area Technical Center (CATC) is committed to developing technical and academic skills and promoting the student attitudes and achievement that will prepare all students for further education and careers in the 21st century. CATC offers a variety of programs to seniors, juniors and, in some programs, sophomores. Most programs are offered on a half-day basis (3 credits) but some are available on a full-day basis (4 credits). Courses may require CATC permission and/or prior approval from the sending school guidance counselor.

CATC Co-Operative Education Program

Co-operative Education is available to all CATC students who are employed, looking for work while in school, who participate in volunteer opportunities and/or for students who wish to develop their employability skills. First year students work or volunteer after school, during school breaks and weekends. Second year students in the same program as their first year may be eligible to alternate days of school with work based on the recommendation of the instructor. Credit (1 or ½) for Co-op is based on the Coop Rubric and the completion of course work by the students and evaluations by the Coop Instructor and employer. The course work focuses on career and job planning, workplace skills, personal finance and portfolio presentation.

Automotive Collision Technology I

Sophomores/Juniors/Seniors

In the Automotive Collision Program, students will receive instruction in metal straightening, surface preparation, welding, plastic repair and plastic refinishing. Daily assignments involve performing work on customer's vehicles in the automotive collision shop. All instruction and practical application is done to National Automotive Technician Foundation (NATEF) and International Collision Auto Repair (I-CAR) standards. These entry-level skills in non-structural damage repair and refinishing prepare students for post-secondary education or placement in the trade. Students entering this course should have good reading, writing, and math skills. We incorporate industry standards using up-to-date equipment to meet the needs of today's workplace. We also teach and expect the professionalism that employers will require from you on the job.

Automotive Collision Technology II

Juniors/Seniors

Prerequisite: Automotive Collision Technology I

In the Automotive Collision Technology II program, students will advance their techniques in metal straightening, surface preparation, welding, plastic repair and plastic refinishing. Students will use on-line repair programs, computerized estimating and scan tools. The instructor may also assist students in obtaining a co-op position at a local repair facility.

Automotive Technology Program

The Automotive Technology Program is divided into three levels. This will allow students to complete the automotive courses that they choose and that their high school course work will allow. Instructors can help students with choosing a technical/community college to finish their training.

To assure quality repairs on today's automobiles, Automotive Service Excellence (ASE) certifies auto repair technicians. The National Automotive Technicians Education Foundation (NATEF) provides industry standards for institutions involved in skill building for the auto industry. The Automotive Technology Program is NATEF certified in the following areas: Brakes, Electrical/Electronic, Engine Performance, and Steering and Suspension. Students will also have the opportunity to receive Central Maine Community College credit while attending CATC. Other articulation credits are available from other schools.

Juniors, after completing the level one automotive program, will have the opportunity to participate in the Automotive Youth Education System (AYES). Second year students will have an opportunity to participate in a job shadow program.

Students entering Automotive Technology should have good reading, writing, and math skills. We incorporate industry standards using up-to-date equipment to meet the needs of today's workplace. We will also teach the professionalism that employers will expect from you on the job.

Automotive Technology I

Sophomores/Juniors/Seniors

Students will gain hands on experiences in an automotive shop environment. Students will receive the foundation of automotive technology, which includes automotive safety and fundamentals. Students will perform light duty service work, minor repairs, brake repairs, and electrical repairs.

Automotive Technology II

Juniors/Seniors

Prerequisite: Successful completion of Automotive Technology I

Students will continue work from Automotive Technology I by advancing their knowledge of automotive electronics, engine performance and steering and suspensions. Students will have the opportunity to take the Maine Motor Vehicle Inspection test for State of Maine certification. This course is offered in the afternoon session only.

Automotive Technology III

Seniors

Prerequisite: Successful completion of Automotive Technology II

Students will continue work from Automotive Technology II by advancing their knowledge of automotive electronics and engine performance. The instructor may also assist students in obtaining a co-op position at a local repair facility. This course is offered in the afternoon session only.

Building Construction

Juniors/Seniors

The Building Construction program provides instruction and practice in the principles of residential construction. Students build scale and full-size buildings, perform building tasks in the Augusta community, and study related information in the classroom. Students successfully completing the Building Construction course of instruction and work activities will be qualified for entry-level positions in construction, retail lumber, and related fields. This program helps build a firm foundation for furthering education in building technology programs at community colleges.

Students should have mastery of measuring, reading, arithmetic computation skills, be familiar with a full-function calculator to perform basic mathematical operations, and perform calculations using fractions and decimals.

Certified Nursing Assistant

Juniors/Seniors

This half-day program provides students with the opportunity to acquire knowledge and learn the skills necessary to become a Certified Nursing Assistant. Students learn how to give basic nursing care to patients and residents. This includes assisting with personal hygiene, movement, nutrition, elimination, communication and emergency situations. In the classroom students learn about anatomy and physiology, diseases, illnesses and conditions of the human body, and they practice tasks in the skills lab. Working in the local nursing homes and hospital is required. Qualified students who successfully complete the program have the opportunity to take the State of Maine Certified Nursing Assistant exam in the spring and become a Certified Nursing Assistant (C.N.A.). Students are prepared to work as a C.N.A. and/or further their education in nursing or other medical fields.

It is recommended that students take biology and health courses prior to attending this program. Attendance is vital to this program, as there are state mandated hour requirements that must be fulfilled prior to taking the C.N.A. exam. A student interview and references may be required.

Computer Aided Drafting and Design (CADD)

Juniors/Seniors

From the basics of design to Computer Aided Drafting and Design (CADD), this program prepares students for entry-level positions within the industry and the tools for postsecondary education. CADD skills are developed through applied drawings created by state-of-the-art equipment. Individualization of instruction allows students to qualify for beginning drafting positions while providing an excellent foundation for those planning a career in Architecture, Interior Design, Engineering or related fields. Computer Aided Drafting and Design is divided into two half-day programs with the possibility of combining the two for a full-day option. The Architectural Drafting class (available both sessions) will use CADD for learning design principles and methods in residential drawing and design. Students will develop the necessary technical skills to communicate architectural ideas in an understandable, efficient, and accurate manner. This class will also design and draw plans for a residence to be constructed by the Building Construction class. Mechanical Drafting is available as an independent study and will use CAM (Computer Aided Machining) technology, using CNC (computer numerically controlled) milling and lathe machines.

Computer Technology I

Juniors/Seniors

The program is designed to give students a working knowledge of computer hardware and software. The course will consist of modules covering hardware components, network and operating systems. This course will include troubleshooting of hardware and software problems. The program will incorporate background work for the A+ Certification Test. Students will have classroom work and hands-on experience that will prepare them for entry-level positions and/or post secondary computer related programs.

Computer Technology II

Seniors

Prerequisite: Permission of the instructor

CCNA Discovery Course, Networking for Home and Small Businesses

The goal of this course is to introduce students to fundamental networking concepts and technologies. This course provides a hands-on introduction to networking and the Internet using tools and hardware commonly found in the home and small business environment. Students will assist in supporting about 75 notebook computers. This class requires a solid background in computer repair and maintenance and an exposure to networking.

Culinary Arts

Juniors/Seniors

The Culinary Arts program trains students for a career in the Food Service industry. Students learn basic food preparation, baking and proper dining room service techniques through the operation of a cafeteria, banquet service and restaurant. They are exposed to the latest technology, including the use of a computerized ordering program directly linked with a distributor. A wide range of career specializations within the Food Service and Hospitality industry are introduced through field trips, special projects and on-the-job training opportunities. Employment potential is excellent and there are many post-secondary opportunities available. A nationally certified sanitation course, Serv-Safe, is offered, and a certificate is awarded upon the successful completion of the course.

Students should have basic math skills and knowledge of algebra, have average reading and writing skills, and be computer literate. Basic knowledge of French for culinary terms is helpful.

Early Childhood Occupations

Juniors/Seniors

As a half-day program, Early Childhood Occupations is designed to teach the skills required to care for and teach preschool children. Students study the growth and development of children and assist in the organization and operation of the Center's nursery school. Job shadowing at local childcare agencies is required. Students are prepared to go on to entry-level positions or to continue their education in a teacher training program or other related areas. A second year program is also available for students who successfully complete the first year. Second year students complete an in depth study of child development and job shadow in the public schools.

Students should be at least 16 years old, have at least a seventh grade reading level, have physical stamina, and exhibit patience and a caring attitude.

Electrical Technology

Juniors/Seniors

The purpose of the Electrical Technology program is to provide the knowledge and skills used in both residential and industrial electrical careers. Emphasis will be placed on green technology emerging in the electrical field. As the United States pushes forward with developing such green energy sources as wind and solar power to reduce the dependence on fossil fuels, the equally pressing need arises for a workforce capable of building those alternative power systems. Our Electrical Technology training is unique because it provides the opportunity not only to understand the theory behind the work, but how to apply that knowledge every day, in our brand new state-of-the-art electrical lab and out at various job sites in the community.

Graphic Design and Printing I

Juniors/Seniors

In this course, students will use their own ideas to develop, design and produce projects such as T-shirts, stickers, note pads, greeting cards and much more. Topics covered will include principles of design and computer applications such as Adobe Photoshop, Illustrator and InDesign. Also covered will be screen printing processes, offset printing, and vinyl cut sign making. Students will apply their creativity, problem solving skills and techniques learned during class time to produce original printed pieces. Students may be eligible to earn Central Maine Community College credits for their GAT151 screen printing course. This course will prepare students to continue their Graphic Arts training at the college level.

Graphic Design and Printing II

Seniors

Students enrolled in this second level course will enhance their design and printing skills through the production of jobs for non-profit organizations and schools. Students will also be assigned personal projects designed to teach advanced techniques including four-color process printing, digital imaging, cost estimating and customer service. Students may elect to earn credits for Central Maine Community College's GAT151 screen printing course. Students will also have the opportunity to job shadow at local print shops.

Health Careers Science/Pharmacology

Seniors

Course offered in the second session, 11:30-1:30

Students will learn medical/pharmacological terminology, calculations, pharmacology, anatomy, and law and ethics. These concepts will be achieved by performing lab exercises, completing assignments, competency check off, and tests. Students will learn how to receive and interpret medication orders, over the counter medications, and inventory skills. Communication skills, professionalism, and other skills beneficial in the workplace will be covered. At the end of this program, seniors will have the opportunity to sit for National Board Certification for Pharmacy Technician. A student interview and references may be required. This course is geared toward senior students, with a strong math and science background. Pediatric and adult first aid and CPR certification is included in this course.

Health Careers Science/Concentration in Human and Animal Studies

Juniors/Seniors

Course offered in the first session, 9-11 a.m.

Students will learn medical and animal terminology, which is the foundation necessary to establish a career in the Human and Animal Sciences field. Students will learn Human and Companion Animal Anatomy and Physiology, Fire Safety, CPR for humans and animals, as well as infection control procedures. Students will practice various skills related to human and animal studies including vital signs, feeding and bathing animals and other various human and animal nursing procedures. Students will also have hands on experience in a variety of clinical settings, as determined by the instructor. Students that successfully complete the program may be eligible to become employed in a medical office setting and/or veterinary clinic.

Health Careers Science/Concentration in Personal Support Specialist

Juniors/Seniors

Semester Course

A comprehensive course of instruction designed to cover aspects of personal care including: body mechanics, environmental safety, client transfers and ambulation, universal precautions, nutrition and homemaking. Successful completion of the Personal Support Specialist course qualifies an individual to provide direct care to clients in assisted living facilities, residential care facilities, adult day care programs and home care settings.

Health Careers Science/Exploring Medical Careers

Sophomores/Juniors/Seniors

Semester Course

Health Care is the largest industry in America. The aging of our populations, combined with the continued technological advances will significantly increase the health care demand and career opportunities. Tremendous career opportunities exist and will continue to grow for students interested in health care delivery, formulating policy, public health, leadership, medicine, nursing and other vital health professions. This course will focus on medical careers, ethical and legal responsibilities, history of health care and the economics of health care. Students will develop a concept of health and wellness from the perspective of a health consumer as well as a potential health professional.

Law Enforcement

Juniors/Seniors

Students enrolled in the Law Enforcement program will gain a head start in this increasingly competitive field. The course covers everything from criminal law and crime prevention to defensive tactics and criminal investigation. The course is designed to help students make a career choice in the main occupations available in the field and to prepare them for further training or education in the criminal justice/law enforcement field. Students in this program are expected to display high standards of ethical and moral behavior, in and out of the classroom, that reflect professionalism, respect, commitment, dedication, pride, self-discipline and teamwork. The curriculum is delivered using hands-on applications, demonstrations and practical scenarios.

Machine Tool Technology I

Juniors/Seniors

This course will introduce students to all aspects of the machine tool industry, including the operation of lathes, drills, millers, and basic computer numeric controlled machines. Students will also develop skills in blueprint reading and basic welding. Juniors who successfully complete this course are encouraged to go on to Machine Tool Technology II.

Machine Tool Technology II

Seniors

Prerequisite: Successful completion of Machine Tool Technology I

Students prepare to enter the Machine Tool industry or technical college programs through extensive lab work in conventional machining processes and classroom experiences. The program is designed to build proficiency and skill in job planning and the operation of lathes, millers, grinders and drills. In addition, this program provides an opportunity to work on projects that interface with the Drafting Technology program using CNC lathes and milling machines. Students also receive training in basic welding principles including; SMAW, MIG, TIG and OXY FUEL.

Plumbing and Heating

Juniors/Seniors

This program utilizes classroom demonstrations, lecture, practical lab experiments and live work experience in the Augusta area to expose students to the skills that are needed for entry-level employment in the two fields of study. Instruction includes: blueprint reading and its applications, planning systems layouts and estimating, and the use of different heating fuels such as number two heating oil and propane. Also covered is basic electricity and its application to the trades. Upon successful completion of the program, students will be prepared for entry-level jobs in the fields of plumbing and heating or entry into postsecondary plumbing and heating programs.

Diversified Occupations Program

In the Diversified Occupations Program our goals are to support the IEP students in earning technical skills, academic achievement and community responsibility. We encourage all students to continue into postsecondary education or enter the workforce.

Our Academic Program offers classes that provide the necessary support in recognizing the individual need of each student. We offer: English, Math, U.S. History, and Science. We are able to provide plenty of one-on-one assistance to our students and support with any technical work.

Students may attend a full day, which would allow for a technical program, in addition to taking 3 academic courses. Our Technical Programs are:

HUMAN SERVICES has two distinct curriculums. The morning program offers students hands on in preparing the school lunches, while experiencing some integration with the Culinary Arts Program. The afternoon program focuses on life skills. Student's classroom time is actually out into the community, doing a variety of learning activities.

AUTOMOTIVE RECONDITIONING assists students in learning the skills necessary for exterior and interior detailing. Students have the opportunity to expand their mechanical knowledge depending on their ability and interest.

The **BUILDING TRADES** program offers students the chance to learn basic carpentry skills using both hand and power tools. Students are involved with hands-on projects throughout the school year, in school and out in the community. With the bus we recently purchased, students will be doing home insulations for people who need assistance. Furthermore, with our bus, students will be able to do more work on community