

Maranacook Community High School



**Program of Studies
2020 – 2021**



Dear Maranacook Families,

This publication outlines the courses we will offer for the 2020-2021 school year and the required standards for graduation. Please read this document carefully so that you can make informed decisions for next year and beyond.

COURSE OFFERINGS. Each year the guidance department along with school administration and department leaders reviews our course offerings in order to best serve student needs and interests. We are so proud of the offerings we have added over the past few years including over 100 credits of dual enrollment, cutting edge robotics courses and challenging fine arts courses as well as numerous academic and behavior supports. As you read, please keep in mind it is possible not all the courses listed will be offered, depending on scheduling and enrollment.

GRADUATION REQUIREMENTS. Please make sure that you are planning your progress toward graduation. To ensure that students have a well-rounded education and to meet state requirements, we have a range of graduation requirements. These are outlined in the “Academic Requirements” section. These requirements include course credits and demonstration of achievement of the Maine Learning Results.

Our incredible Guidance Department is here to support you with planning your progress through high school. If you have any questions, please contact your School Counselor for clarification.

Kim Ray – Guidance Director/School Counselor (A-K)

Sara Chisholm - School Counselor (L-Z)

Chris Tamborini – Guidance Administrative Assistant

MAKE IT COUNT. We will do anything we can to support you while you’re at Maranacook to help you reach your goals, but remember at the end of the day the person most responsible for your success is you. You need to show up at school each day with a positive attitude, ready to work your hardest. Hard work will take you anywhere you want to go in life. Please don’t sell yourself short by missing school or not giving school your best effort. We believe in you! We offer an extraordinary range of programs and resources here at MCHS. Our hope is that every student will find a place where they feel challenged and supported.

Sincerely,

Dwayne Conway, Principal

Tina Brackley, Assistant Principal

Maranacook Community High School
2250 Millard Harrison Drive, Readfield, ME 04355
Telephone: 685-4923 Fax: 685-9597

DIRECTORY

Principal	Dwayne Conway	Ext 1022
Assistant Principal	Tina Brackley	Ext 1040
Student Services Director	Brant Remington	Ext 1045
School Counselor (Last Names A-K)	Kimberly Ray	Ext 1070
School Counselor (Last Names L-Z)	Sara Chisholm	Ext 1048

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.

Report Card & Progress Reports

A report card is mailed home each semester. A progress report is mailed home at the halfway point of each semester. The district uses PowerSchool as its electronic grading system. Grades can be accessed by staff, students and parents on PowerSchool throughout the school year. Please contact the front office for assistance with passwords and logins. Parents are encouraged to contact teachers with any questions or concerns about grades or grading.

TABLE OF CONTENTS

Principal's Message	1
Directory	2
Guidance Services	2
Report Cards and Progress Reports	2
Course Selection Information	4
Dropping a Class	5
Curriculum and Graduation Requirements	6
MCHS Core Values	9
HOW Rubric and Guiding Principles	10
Dual Enrollment	12
English Language Arts	13
Mathematics	18
Science	23
Social Studies	27
Health and P.E	32
Visual and Performing Arts	35
World Languages	42
Career Preparation	48
Additional Electives	53
Early College Credit	54
Maranacook Alternative Program	55
Special Education	55
Capital Area Technical Center	56

Courses in this Program of Studies will be offered depending on enrollment and budgetary support.

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 think about the recommended courses for various post-secondary opportunities.

Four Year Colleges – Most four year colleges require the following courses for admission, as well as a placement test to determine college readiness in writing, reading and math:

A minimum of:

English Four years of College Prep, Honors or Advanced Placement

Mathematics Four years of College Prep, Honors or Advanced Placement

Science Three years of College Prep or Honors

History Three years of College Prep, Honors or Advanced Placement

World Language Two to four years of a World Language in the same concentration

Two Year Community Colleges and/or Certificate Programs – Carefully check admission requirements for the program in which you are interested. Students may be asked to take additional tests as part of the admission process.

A minimum of:

English Four years of College Prep

Mathematics Three years of College Prep or Applied

Science Three years of College Prep or Applied

Employment – Students must complete all requirements for a Maranacook Community High School diploma to improve their chances of gainful employment.

- It is strongly recommended that students selecting this path attend the Capital Area Technical Center (CATC) during their junior and/or senior year. The CATC experience will help students to develop interests, aptitudes and skills that will enable them to more effectively compete in the workforce.

Academic Preparation Chart

<u>Subject</u>	<u>High School Diploma</u>	<u>Technical/Vocational College Preparation</u>	<u>Four Year College Preparation</u>	<u>Selective College Preparation</u>
English	4 credits	4 credits	4 credits	4 credits Honors/AP
Math	3 credits	3 credits	3+ credits	4 credits Honors/AP
Science	3 credits	3 credits	3+ credits	4 credits Honors/AP
History	3 credits	3 credits	3 credits	4 credits Honors/AP
Language	Recommended Not Required	Recommended Not Required	2 credits Minimum Same Language	4 credits Minimum Same Language
Fine Arts	1 credit			
Physical Education	1.5 credits			
Technology	.5 Credits			
Financial Literacy	.5 credits			
Health	.5 credits			
Electives	7 credits	Appropriate to Interest	Appropriate to Interest	Appropriate to Interest

Permission to Drop a Course:

Each student is required to carry a minimum of 6 courses or the equivalent each semester. Once a course has started, the student is expected to complete it. However, a limited add/drop period of two weeks is held at the beginning of each semester. To add or drop a course after the add/drop period, the student must meet with the school counselor to review the change.. ***Courses may only be dropped within the first two weeks of each semester.*** Exceptions may be requested in special circumstances through the school counselor, and approval may ultimately be granted by an administrator.

CURRICULUM REQUIREMENTS

Policy: IKF

REGIONAL SCHOOL UNIT NO. 38 GRADUATION REQUIREMENTS

Before entering high school, students need to know the standards for receiving a high school diploma in order to plan an appropriate educational program to meet that goal.

RSU #38 is implementing a standards-based system of teaching and learning. To be awarded a high school diploma from Maranacook Community High School, students graduating in the Class of 2021 and beyond will demonstrate competency in content areas to be ready to enter a post-secondary educational program or a career as a clear and effective communicator, a self-directed and life-long learner, a creative and practical problem solver, a responsible and involved citizen, and an informed and integrative thinker, by earning credits as defined in this document.

Students graduating in the Classes of 2017-2020 must meet the credit and other graduation requirements as specified in the previous RSU #38 Graduation Requirements Policy dated March 3, 2005. (Attachment A)

The Superintendent, through the high school principal or other designee, shall be responsible for providing accurate information concerning graduation requirements to incoming students and their parents prior to the start of their ninth grade school year. A copy of this policy will be disseminated to all incoming ninth grade students at the time of course selection. This policy will also be included in every edition of the high school student handbook.

I. DIPLOMA REQUIREMENTS FOR STUDENTS GRADUATING IN THE CLASS OF 2021 AND BEYOND

The Maranacook Community High School administration, faculty, and staff will develop and apply a set of graduation standards and performance indicators that align with the content-area standards of the Maine Learning Results.

The student must successfully complete a total of twenty-four (24) credits. They are:

1. English/Language Arts – 4 credits, or the equivalent in standards achievement;
2. Mathematics – 3 credits, or the equivalent in standards achievement;
3. Social studies – 3credits, or the equivalent in standards achievement;
4. Science – 3 credits, or the equivalent in standards achievement;
5. Physical education – 1.5 credits, or the equivalent in standards achievement;
6. Fine arts – 1 credit, or the equivalent in standards achievement;
7. Health – .5 credit, or the equivalent in standards achievement;
8. Financial Literacy - .5 credit, or the equivalent in standards achievement;
9. Technology - .5 credit, or the equivalent in standards achievement; and
10. Electives – 7 credits

Total Credits: 24

II. MULTIPLE PATHWAYS FOR EDUCATIONAL EXPERIENCES

Students have the opportunity to choose from multiple pathways for educational opportunities and/or credits in order to gain and demonstrate competency in the required Maine Learning Results. In addition to taking courses offered by Maranacook Community High School, a student may earn credits through non-traditional pathways. Examples of non-traditional classes include, but are not limited to:

- Early college/dual enrollment courses
- Career and technical education programming
- Online/virtual learning
- Apprenticeships, internships and/or field work
- Community Service
- Exchange programs
- Independent study
- Alternative education/“At Risk” programming
- Adult education

Each pathway must provide a quality learning experience comparable in rigor to the school unit’s own educational experience (course) offerings. If a student wishes to use one of these pathways, they must gain approval from the guidance department, content area learning leader, and principal.

III. STUDENTS RECEIVING SPECIAL EDUCATION SERVICES

As specified by goals and objectives of their Individual Education Plan, students must meet the standards of the Maine Learning Results and students must satisfy graduation requirements in order to be awarded diplomas.

IV. ADDITIONAL CONSIDERATIONS APPLICABLE TO THE AWARDING OF STANDARDS-BASED DIPLOMAS

- A. Transfer Students: For students who transfer to Maranacook Community High School from another state or from an educational program that is not required to meet the content standards of the system of Learning Results, the Maranacook Community High School principal shall determine the value of the student’s prior educational experience towards meeting graduation requirements.
- B. Home-schooled Students: For previously home-schooled students wishing to receive a diploma from Maranacook Community High School, the Maranacook Community High School Principal shall determine the value of the student’s prior educational experience toward meeting graduation credit requirements. A home-schooled student must be a full time student at Maranacook Community High School for their senior year.
- C. Middle School Students: Middle school students who earn credit at Maranacook Community High School will be awarded content area credit towards graduation requirements.
- D. Early Awarding of Diplomas: A student who has met the State’s and the Board’s diploma requirements in fewer than four years of high school may be awarded a diploma.
- E. Substitutions/exceptions: Any substitution or exception to the local course requirements for graduation will require the approval of the Principal.
- F. Extended Study: Students are eligible for extended years of study to complete the requirements of a diploma if they have not reached the age of 20 at the start of the school year. Students eligible for extended years of study may be referred to adult education or other resources

suitable to young learners. Extended study for students with disabilities shall be specified in the student's Individualized Education Plan.

- G. Participation in Graduation Ceremony: A student must complete all School Board requirements for a high school diploma in order to participate in graduation exercises.

Legal Reference: 20-A MRSA § 4502(8), 4722, 6209 Ch. 127 § 7 (Me. Dept. of Ed. Rule)

Cross Reference: IHCDA – Post-Secondary Enrollment Options

Adopted: 03/03/05

Adopted by RSU #38 Board of Directors: 04/27/09 Revised: 06/07/17

Revised: 06/19/19

MARANACOOK COMMUNITY HIGH SCHOOL

CORE VALUES AND BELIEFS STATEMENT AND STUDENT EXPECTATIONS FOR LEARNING

The purpose of Maranacook Community High School is to create an environment where every individual can flourish academically and socially. Through respect, knowledge, and responsibility, the school community promotes character building, 21st century skill development, and personal fulfillment.

- Students will be responsible, trustworthy, and honest citizens and be effective, fair, ethical, and skilled collaborators.
- Students will be clear and effective communicators.
- Students will be creative and innovative learners.
- Students will be active, engaged, and motivated learners.
- Students will be rational, explorative, and creative problem solvers.

MARANACOOK COMMUNITY HIGH SCHOOL

Habits of Work Rubric (HOW)

	Exceeds the Standard 4	Meets the Standard 3	Partially Meets the Standard 2	Does Not Meet the Standard 1
<p>Collaborative Worker</p> <p>MGP: B.7; C.4; C.6; D.1; D.4; D.5; D.6</p>	<p>ALWAYS...</p> <p>--Works well with others by being kind, using polite language and a respectful tone of voice</p> <p>--Listens respectfully</p> <p>--Accepts responsibility for actions</p> <p>-- Uses group time effectively</p>	<p>CONSISTENTLY....</p> <p>--Works well with others by being kind, using polite language and a respectful tone of voice</p> <p>--Listens respectfully</p> <p>--Accepts responsibility for actions</p> <p>-- Uses group time effectively</p>	<p>SOMETIMES...</p> <p>--Works well with others by being kind, using polite language and a respectful tone of voice</p> <p>--Listens respectfully</p> <p>--Accepts responsibility for actions</p> <p>-- Uses group time effectively</p>	<p>RARELY...</p> <p>--Works well with others by being kind, using polite language and a respectful tone of voice</p> <p>--Listens respectfully</p> <p>--Accepts responsibility for actions</p> <p>-- Uses group time effectively</p>
<p>Quality Learner</p> <p>MGP: A.1; A.2, A.3; A.4; B.2; C.1; C.2; C.3; E.2; E.4</p>	<p>ALWAYS....</p> <p>--Engages in class activities</p> <p>--Uses class time efficiently and effectively</p> <p>--Asks questions</p> <p>--Perseveres</p> <p>--Cleans up after an activity</p>	<p>CONSISTENTLY....</p> <p>--Engages in class activities</p> <p>--Uses class time efficiently and effectively</p> <p>--Asks questions</p> <p>--Perseveres</p> <p>--Cleans up after an activity</p>	<p>SOMETIMES....</p> <p>--Engages in class activities</p> <p>--Uses class time efficiently and effectively</p> <p>--Asks questions</p> <p>--Perseveres</p> <p>--Cleans up after an activity</p>	<p>RARELY...</p> <p>--Engages in class activities</p> <p>--Uses class time efficiently and effectively</p> <p>--Asks questions</p> <p>--Perseveres</p> <p>--Cleans up after an activity</p>
<p>Responsible Learner</p> <p>MGP: B.1; B.3; B.4; B.5; B.6; C.5; C.7; D.2; D.3; E.1; E.3</p>	<p>ALWAYS...</p> <p>--Arrives to class on time</p> <p>--Follows class routines</p> <p>--Advocates for self as needed</p> <p>--Completes assignments and projects by due dates</p> <p>--Arrives to class with needed materials</p> <p>--Makes up work, when absent by designated time period</p> <p>-- AND Completes 100% of practice assignments</p>	<p>CONSISTENTLY...</p> <p>--Arrives to class on time</p> <p>--Follows class routines</p> <p>--Advocates for self as needed</p> <p>--Completes assignments and projects by due dates</p> <p>--Arrives to class with needed materials</p> <p>--Makes up work, when absent by designated time period</p> <p>-- AND Completes at least 75% of a practice assignments</p>	<p>SOMETIMES...</p> <p>--Arrives to class on time</p> <p>--Follows class routines</p> <p>--Advocates for self as needed</p> <p>--Completes assignments and projects by due dates</p> <p>--Arrives to class with needed materials</p> <p>--Makes up work, when absent by designated time period</p> <p>-- AND Completes at least 50% of a practice assignments</p>	<p>RARELY...</p> <p>--Arrives to class on time</p> <p>--Follows class routines</p> <p>--Advocates for self as needed</p> <p>--Completes assignments and projects by due dates</p> <p>--Arrives to class with needed materials</p> <p>--Makes up work, when absent by designated time period</p> <p>-- Completes a practice assignment</p>

MAINE GUIDING PRINCIPLES

A. A clear and effective communicator who:

1. Demonstrates organized and purposeful communication in English and at least one other language
2. Uses evidence and logic appropriately in communication
3. Adjusts communication based on the audience
4. Uses a variety of modes of expression (spoken, written and visual and performing including the use of technology to create and share the expressions)

B. A self-directed and lifelong learner who:

1. Recognizes the need for information and locates and evaluates resources
2. Applies knowledge to set goals and make informed decisions
3. Applies knowledge in new contexts
4. Demonstrates initiative and independence
5. Demonstrates flexibility including the ability to learn, unlearn and relearn
6. Demonstrates reliability and concern for quality
7. Uses interpersonal skills to learn and work with individuals from diverse backgrounds

C. A creative and practical problem solver who:

1. Observes and evaluates situations to define problems
2. Frames questions, makes predictions and designs data/information collection and analysis strategies
3. Identifies patterns, trends and relationships that apply to solutions
4. Generates a variety of solutions, builds a case for a best response and critically evaluates the effectiveness of the response
5. Sees opportunities, finds resources and seeks results
6. Uses information and technology to solve problems
7. Perseveres in challenging situations

D. A responsible and involved citizen who:

1. Participates positively in the community and designs creative solutions to meet human needs and wants
2. Accepts responsibility for personal decisions and actions
3. Demonstrates ethical behavior and the moral courage to sustain it
4. Understands and respects diversity
5. Displays global awareness and economic and civic literacy
6. Demonstrates awareness of personal and community health and wellness

E. An integrative and informed thinker who:

1. Gains and applies knowledge across disciplines and learning contexts and to real-life situations with and without technology
2. Evaluates and synthesizes information from multiple sources
3. Applies ideas across disciplines
4. Applies systems thinking to understand the interaction and influence of related parts on each other and on outcomes

DUAL ENROLLMENT OPPORTUNITIES

Maranacook Community High School is proud to offer Dual Enrollment opportunities for students to earn college credit through high school courses. Dual Enrollment classes are designated within the program of studies with the emblem of the college awarding the credits. At the beginning of each semester, students and parents must complete the application required by the college to earn college credit. **Being in the course does not automatically ensure credit.**

Maranacook also offers students the opportunity to earn an Associate's Degree while in high school through a partnership with Thomas College. Students apply to the Pathways Program at the end of their sophomore year in high school. Any questions regarding the program and how to apply can be directed to the student's school counselor.

The Dual Enrollment Handbook can be found on the Maranacook Website.

ENGLISH LANGUAGE ARTS

COURSE TITLE	LEVEL	LENGTH	PREREQUISITE
English 9	CP, Honors	Year	
English 10	CP, Honors	Year	English 9 (Recommendation of Instructor)
English 11	CP, Honors	Year	English 10 (Recommendation of Instructor)
English 12	CP, Honors	Year	English 11 (Recommendation of Instructor)
Language & Composition AP	AP, DE	Year	Permission of Instructor
Literature & Composition AP	AP, DE	Year	Permission of Instructor
Creative Writing		Semester	
Writing Center Tutor		Year/Semester	Permission of Instructor/Application
Monsters and the Undead (Offered every other year)		Semester	
Literature in Sports		Semester	
Public Speaking	DE	Semester	

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 materials, apply more abstract concepts and work at a faster pace. Prior summer reading and writing are required for entering these classes. At this level, students are expected to read independently at home. Students require a teacher recommendation to be placed in an honors level class.

College Prep courses help students master the language and composition skills needed to write clearly and effectively. In addition, students study literature and become familiar with various literary genres. As in all English courses, students work to improve their reading, writing, and thinking skills.

Course Name: English 9
Level: Honors, College Prep

Grade: 9
Credit: 1 English

Description: 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, and drama. Students in honors courses are expected to achieve 3s on summative assessments, and students in college prep courses are expected to achieve 2s on summative assessments.

Course Name: English 10
Level: Honors, College Prep
Prerequisite: English 9

Grade: 10
Credit: 1 English

Description: This course emphasizes continuing development of oral language and composition skills. Included within the study are the identification of literary themes and forms, use of effective reading strategies, and development of speaking/listening skills. Students write for varied audiences and purposes and work to apply effective ideas, voice, word choice, fluency, organization, and conventions in their writing. Reading selections for this level include drama, fiction, and informational texts. Students in honors courses are expected to achieve 4s on summative assessments, and students in college prep courses are expected to achieve 3s on summative assessments.

Course Name: English 11
Level: Honors, College Prep
Prerequisite: English 10

Grade: 11
Credit: 1 English

Description: This course covers both fiction and nonfiction pieces in order to study important themes in American literature. Writing assignments will include analytical essays, creative writing and the personal narrative. Selections include the study of lesser known writers as well as major figures. Reading selections for this level include drama, fiction, and information texts. Students in honors courses are expected to achieve 3s on summative assessments and students in college prep courses are expected to achieve 2s on summative assessments.

Course Name: English 12
Level: Honors, College Prep
Prerequisite: English 11

Grade: 12
Credit: 1 English

Description: Explore a wide array of classic and contemporary literature while developing college-readiness reading, writing, and critical thinking skills. Students will analyze and assess fiction and non-fiction, and increase their comprehension and understanding of college-level texts. Students will also work to further their writing skills through essays, argumentation, journals, reading responses, and a variety of formal and informal writings. Students in honors courses are expected to achieve 4s on summative assessments and students in college prep courses are expected to achieve 3s on summative assessments.

Course Name: Language and Composition AP
Prerequisite: Permission of Instructor

Grade: 11
Credit: 1 English

 **Offers Dual Enrollment and 3 College Credits**

Description: Students in this introductory college-level course read and carefully analyze a broad and challenging range of nonfiction prose selections, deepening their awareness of rhetoric and how language works. Through close reading and frequent writing, students develop their ability to work with language and text with a greater awareness of purpose and strategy, while strengthening their own composing abilities. Course readings feature expository, analytical, personal, and argumentative texts from a variety of authors and historical contexts. Students examine and work with essays, letters, speeches, images, and imaginative literature. Students prepare for the AP® English Language and Composition Exam and may be granted advanced placement, college credit, or both as a result of satisfactory performance. **Extensive summer reading and writing are required.**

Course Name: Literature and Composition AP
Prerequisite: Permission of Instructor

Grade: 12
Credit: 1 English

 **Offers Dual Enrollment and 3 College Credits**

Description: The AP English Literature and Composition course is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students will deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students will consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. The course will include intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit. Writing is an integral part of the course, and AP Literature Examination is weighted toward student writing about literature. Writing assignments will focus on the critical analysis of literature including expository, analytical, and argumentative essays. Student's prepare for the AP English Literature and Composition Exam and may be granted advanced placement, college credit, or both for satisfactory performance.

ENGLISH ELECTIVES

Course Name: Creative Writing

Grades: 10-12

Prerequisite: N/A

Credit: 0.5 Elective

Description: Students in this course will experiment with creative genres - short stories, poetry, drama, novels - as a means of developing different imaginative approaches to writing and self-assessment. Self-selected and assigned readings will help students develop creative writing and thinking skills to help them become advanced writers. The emphasis will be on generating original ideas and material, developing basic and increasingly advanced strategies necessary to become a creative, original, and imaginative writer. Students will set independent goals for writing, editing, and publishing (online and offline). Students may opt to create and publish the school literary magazine.

Course Name: Writing Center Tutor

Grades: 10-12

Prerequisite: Teacher permission/application

Credit: 0.5/1 Elective

Description: The Maranacook Writing Center serves both students and staff in order to further a culture of writing in our school and community. We promote writing to learn, writing across the curriculum, and preparing students for writing and learning throughout their academic careers and beyond. We support writers through a writer centered, process oriented approach, centered around talking to writers about writing.

As part of this course, students work as tutors in the Maranacook Writing Center. Tutors will receive training in how to conference with writers, address common writing issues, and build our writing community. Students should expect to participate in group meetings and trainings as well as work at designated times in the writing center. Receiving credit is contingent on working in the writing center for the required number of hours and attending trainings.

Working in the writing center provides opportunities for students to help and support others, which in turn will improve and support their own writing. Students will develop skills in critical listening and thinking, group collaboration, and writing.

Course Name: Monsters and the Undead

Grades: 9-12

Prerequisite: N/A

Credit: 0.5 Elective

Description: Monsters and zombies are not just scary demons, beasts, and hordes of decaying flesh coming to get you. They also are symbols of our deepest cultural and societal fears. In this course, we will use a wide arrange of mediums and genres including literature, film, television, graphic novels, and video games. During this course, students will be creating their own creative pieces in the genre. **This course will be offered during the 2021-2022 school year.**

Course Name: Literature In Sports
Prerequisite: N/A

Grades: 9-12
Credit: 0.5 Elective

Description: This is a semester course. This course will focus on the use of sports in literature. Students will read and analyze various short stories, novels and articles. Themes studied may include, but are not limited to leadership, trends, definitions of success and failure, heroes, coaching ethics, etc. Those enrolling in this class should have an interest in both athletics and literature.

Course Name: Public Speaking
Prerequisite: N/A

Grades: 10-12
Credit: 0.5 Elective

 **Offers Dual Enrollment and 3 College Credits**

Description: This year-long course is designed to help the student develop the ability to prepare and deliver effective speeches and presentations. The course covers both the knowledge required to plan and organize a speech and the interpersonal delivery techniques necessary to overcome nervousness and achieve maximum impact. Informative, persuasive, and commemorative or entertaining speeches are given. Students refine their writing and editing skills by composing, organizing, and proofing documents for a variety of academic and professional purposes.

MATHEMATICS

COURSE TITLE	LEVEL	LENGTH	PREREQUISITE
HS Algebra 1 Part 1		Year	Mastery of 8 th grade math standards
HS Algebra 1 Part 2		Year	HS Algebra I Part 1
HS Algebra 1	CP	Year	Mastery of 8 th grade math standards
Geometry CP	CP	Year	Algebra I
Geometry Honors	Honors	Year	Algebra 1 and permission of Math Dept.
Algebra 2 CP	CP	Year	Geometry
Algebra 2 Honors	Honors	Year	Permission of Math Dept/ Algebra I
College Algebra	DE	Year	Algebra II
Pre-Calculus Honors/ College Math	Honors, DE	Year	Algebra II
Intro to Calculus Honors/ Calculus I	Honors, DE	Year	Precalculus or College Algebra
Calculus AP AB/ Calculus I&II	AP, DE	Year	Precalculus
Statistical Inference & Decision Making	DE	Year	Algebra II
Practical Math		Year	
Problem Solving		Year	

Course Name: HS Algebra 1 Part 1
Prerequisite: Mastery of 8th grade math standards

Grades: 9-12
Credit: 1 Math

Description: This course builds upon 8th grade Common Core Standards for Algebra and is the first year of a two-part Algebra 1 program. It is designed for the student who is in the lower quartile of standardized scores and requires a small-class learning environment. Emphasis will be on interpreting structure of expressions, performing arithmetic operations on polynomials, creating equations that describe numbers or relationships, solving equations as a process of reasoning and explaining the reasoning, solving equations and inequalities in one variable, representing and solving equations and inequalities graphically, understanding the concept of a function and use function notation, interpreting functions that arise in application in terms of the context, and interpret linear and exponential models and exploring descriptive statistics.

Course Name: HS Algebra 1 Part 2
Prerequisite: HS Algebra 1 Part 1

Grades: 10-12
Credit: 1 Math

Description: This course is the second year of a two-part Algebra 1 program. It is designed for the student who is in the lower quartile of standardized scores and requires a small-class learning environment. Emphasis will be on interpreting structure of expressions, performing arithmetic operations on polynomials, creating equations that describe numbers or relationships, solving equations as a process of reasoning and explaining the reasoning, solving equations and inequalities in one variable, representing and solving equations and inequalities graphically, understanding the concept of a function and use function notation, interpreting functions that arise in application in terms of the context, and interpret linear and exponential models and exploring descriptive statistics.

Course Name: HS Algebra 1
Prerequisite: Mastery of 8th grade math standards

Grades: 9-12
Credit: 1 Math

Description: This course builds upon the 8th grade Common Core Standards for Algebra. The units will deepen and extend understanding of linear, quadratic and exponential relationships. Emphasis will be on interpreting structure of expressions, performing arithmetic operations on polynomials, creating equations that describe numbers or relationships, solving equations as a process of reasoning and explaining the reasoning, solving equations and inequalities in one variable, representing and solving equations and inequalities graphically, understanding the concept of a function and use function notation, interpreting functions that arise in application in terms of the context, and interpret linear and exponential models.

Course Name: Geometry CP
Prerequisite: Algebra 1

Grades: 9-12
Credit: 1 Math

Description: The class will 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 use their algebra skills to solve geometry problems.

Course Name: Geometry Honors
Prerequisite: Algebra 1 and permission of Math Dept.

Grades: 9-10
Credit: 1 Math

Description: This class prepares students to use mathematics effectively in today's world and promotes independent thinking and learning. This is done through an extensive 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.

Course Name: Algebra 2 CP
Prerequisite: Geometry

Grades: 11-12
Credit: 1 Math

Description: The principal 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 College Algebra or Pre-Calculus. Topics covered include the language of algebra, linear relations, functions, systems of equations, inequalities, quadratic equations, powers, and polynomials.

Course Name: Algebra 2 Honors
Prerequisite: Permission of Math Dept / Algebra 1

Grades: 10-12
Credit: 1 Math

Description: 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 equations and inequalities, linear relations and functions, systems of equations and inequalities, quadratic functions and relations, polynomials and polynomial functions.

Course Name: College Algebra
Prerequisite: Algebra 2

Grades: 11-12
Credit: 1 Math



Offers Dual Enrollment and 3 College Credits

Description: 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.

Course Name: Pre-Calculus Honors/College Math

Grades: 10-12

Prerequisite: Algebra 2

Credit: 1 Math



Offers Dual Enrollment and 3 College Credits

Description: This class 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 College Algebra 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, and systems of equations.

Course Name: Intro to Calculus Honors/Calculus I

Grades: 11-12

Prerequisite: Precalculus or College Algebra

Credit: 1 Math



Offers Dual Enrollment and 3 College Credits

Description: Introduction to 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 a basic review of Precalculus along with advanced algebra topics, functions and limits, the derivative and its applications.

Course Name: Calculus AP AB /Calculus I & II

Grades: 11-12

Prerequisite: Precalculus

Credit: 1 Math



Offers Dual Enrollment and 6 College Credits

Description: This is a full 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.

Course Name: Statistical Inference and Decision Making

Grade: 12

Prerequisite: Algebra 2

Credit: 1 Math



Offers Dual Enrollment and 3 College Credits

Description: 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-84 graphing calculator will be used extensively.

Course Name: Practical Math
Prerequisite: N/A

Grades: 11-12
Credit: 1 Math

Description: This course is designed to prepare students with the fundamental knowledge they need to chart a successful and prudent course as a consumer. It is intended to provide the knowledge needed to understand options and make reasonable decisions, and provide numerous opportunities to experience how to apply that knowledge for possible future work and study in the trades and other vocations.

MATHEMATICS ELECTIVES

Course Name: Problem Solving
Prerequisite: N/A

Grades: 9-12
Credit: 1 Elective

Description: Problem Solving is a class that runs in conjunction with the Math Team. Students will learn about, and practice how to solve, problems from a plethora of categories in the high school curriculum. In addition to helping students prepare for the math team meets, the topics learned in this course will help students prepare for: standardized tests (such as the SAT), math they will encounter in college, learning how to go about solving problems. The tests for the class will be the individual rounds at each Math Meet, which happen approximately once per month on Wednesdays. Students have the choice to either take the test by going to the meet or by taking the test during a time agreed upon by the teacher and the student.

Topics covered in this course include: Arithmetic with "*" operations, Inequalities and Absolute Values, Matrices, Determinants, and Systems of Equations, Number Theory, Geometric Similarities, Arithmetic with Ratio and Proportion, Series and Sequences, Counting Principles and Binomial Theorem, Polynomials, Areas and Volumes, Probability, Exponents and Radicals, Lines, Angles, and Polygons, Complex Numbers, Arithmetic with Percent, Arithmetic with Literal Equations, Logs and Log Equations, Linear Coordinate Geometry, Functions, Trigonometric Mechanics, Algebraic Fractions with Factoring, Trigonometric Equations and Identities, Circles and Spheres, Conics, Arithmetic with Statistics.

SCIENCE

Course Name	Level	Length	Prerequisite
Earth Systems	Honors, CP, Applied	Year	Recommendation of Instructor
Biology	Honors, CP, Applied	Year	Earth Science or Recommendation of Instructor
Physics Honors	Honors, DE	Year	Honors Algebra II/Trig or Permission of Instructor
Physics CP	CP	Year	Geometry, Algebra 2 enrolled concurrently
Physics Applied	Applied	Year	Algebra 1/or Permission of Instructor
Chemistry Honors	Honors, DE	Year	Honors Physics or Recommendation of Instructor
Chemistry	CP, Applied	Year	
Biology AP	AP	Year	Recommendation of Instructor
Astronomy		Semester	
Robotics		Semester	

Course Name: Earth Systems
Levels: Honors, College Prep, Applied
Prerequisite: Recommendation of Instructor

Grade: 9
Credit: 1 Science

Description: 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.

Course Name: Biology
Level: Honors, College Prep, Applied
Prerequisite: Earth Science or Recommendation of Instructor

Grade: 10
Credit: 1 Science

Description: 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.

Course Name: Physics Honors
Prerequisite: Honors Algebra II/Trig or Permission of Instructor

Grade: 11 or 12
Credit: 1 Science



THOMAS
College **Thomas College offers Dual Enrollment and College Credit**

Description: 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, wave phenomena, electricity and magnetism.

Course Name: Physics CP
Prerequisite: Geometry, Algebra 2 enrolled concurrently

Grade: 11 or 12
Credit: 1 Science

Description: 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, wave phenomena, electricity and magnetism.

Course Name: Physics Applied
Prerequisite: Algebra 1 or Permission of Instructor

Grade: 11 or 12
Credit: 1 Science

Description: 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, wave phenomena, electricity and magnetism.

Course Name: Chemistry Honors
Prerequisite: Physics Honors or Recommendation of Instructor

Grade: 11 or 12
Credit: 1 Science



KVCC Offers Dual Enrollment and 4 College Credits

Description: This rigorous course is an introduction to the enterprise of chemistry. This course will help students 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.

Course Name: Chemistry
Levels: College Prep/Applied
Prerequisite: N/A

Grade: 11 or 12
Credit: 1 Science

Description: 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 students understand the principles of chemistry so that they 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.

Course Name: Biology AP
Prerequisite: Biology and/or Recommendation from Instructor

Grade: 10-12
Credit: 1 Science

Description: AP Biology is an intensive course comparable to an introductory biology course taken in college. This course emphasizes the development of understanding concepts rather than an accumulation of facts. The student should understand and appreciate the science of biology as well as appreciate scientific inquiry that develops their problem solving and critical thinking skills. The format for this class will be primarily lecture and labs. There are prerequisites for this course. In order to be successful on the

AP exam given in May, proven success in biology and an interest in chemistry is recommended. Junior or senior status is preferred, but sophomores may be considered with special permission.

SCIENCE ELECTIVES

Course Name: Astronomy

Grades: 10-12

Prerequisite: N/A

Credit: 0.5 Elective

Description: This one semester course provides the opportunity to develop knowledge and understanding about the solar system, galaxy, and universe in which we live. Much attention is given to an appreciation for how we have obtained this information about the universe. Areas of study include: the process of science, including use of the tools used to observe the sky; stellar astronomy and how stars change over time; and planetary astronomy and how interstellar spacecraft are obtaining information about other bodies in the solar system. Astronomy is an elective course that provides a broad survey of the field of astronomy in one semester of study. The course is project-based and designed to have a minimum of mathematical investigation and to be accessible to a diverse population.

Course Name: Robotics

Grades: 9-12

Prerequisite: N/A

Credit: 0.5 Elective

Description: The VEX robotics and Exploring Computer Science combination course is a hands-on STEM curriculum course that is designed to be interactive through a team approach. VEX robotics is heavily focused on mechatronic principles; as such, programming is NOT required. VEX will be primarily the focus in Semester 1 with build and competition. Semester 2 includes VEX design, competitions based on qualifications, and collaboration with peers, however the focus turns toward computer science. Through exploration of interface design and limitations of computers, students will develop computational practices of algorithm development, problem solving, and programming within the context of problems relevant to our everyday lives. There will also be an emphasis on social and ethical issues. With new VEX challenges every year and a beginner approach to changing topics in computer science, students have the option to participate in this course for 1 to 4 years. Students who have taken multiple years of Robotics in High School have the option of adding the term "Advanced" to their transcript should they choose. This will require additional work above and beyond the normal curriculum.

SOCIAL STUDIES

Course Name	Level	Length	Prerequisite
Global Explorations in History, Geography, and Economics	Honors, CP, Applied	Year	Recommendation of Instructor
World History AP	AP	Year	Global Explorations Honors & Recommendation of Instructor
World History	Honors, CP, Applied	Year	Global Explorations
U.S. History AP	AP, DE	Year	AP or Honors World History
U.S. History	CP, Applied	Year	World History
Ethics	DE	Semester	Permission of Instructor
Living History (19th Century)	Independent Study	Semester	Recommendation of Dept. Leader
Sociology	CP	Semester	
Psychology	CP	Semester	
Psychology AP	AP, DE	Year	
History vs Hollywood	CP, DE	Semester	
Comparative Government and Politics AP	AP, DE	Year	

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.

Course Name: Global Explorations in History, Geography, and Economics **Grade:** 9
Level: Honors, College Prep, Applied **Credit:** 1 Social Studies
Prerequisite: Recommendation of Instructor

Description: 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. Students will broaden their understanding of the world by learning about physical and human geography, including world cultures and global economics. The class addresses Learning Results Standards in Research Skills, Geography, and Economics. Students must pass this course for graduation.

Course Name: World History AP **Grade:** 10
Prerequisite: Global Explorations Honors & Recommendation of Instructor **Credit:** 1 Social Studies

Description: AP World History is a rigorous academic course that demands maturity and independent 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.

Course Name: World History **Grade:** 10
Level: Honors, College Prep, Applied **Credit:** 1 Social Studies
Prerequisite: Global Explorations

Description: 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.

Course Name: U.S. History AP

Grade: 11

Prerequisite: AP or Honors World History

Credit: 1 Social Studies



THOMAS
College

Thomas College Offers Dual Enrollment and 3 College Credits

Description: Advanced 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.

Course Name: U.S. History

Grade: 11

Level: College Prep, Applied

Credit: 1 Social Studies

Prerequisite: World History

Description: 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.

SOCIAL STUDIES ELECTIVES

Course Name: Ethics

Grades: 11-12

Prerequisite: Permission of Instructor

Credit: 0.5 Elective



THOMAS
College

Thomas College Offers Dual Enrollment and 3 College Credits

Description: 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, medical, political and moral issues. Among the topics to be discussed are ethical theory, physician-patient relationships, the concept of Justice, and the Death Penalty.

Course Name: Living History (19TH Century) - An Independent Study

Grades: 9-12

Prerequisite: Recommendation of Dept. Leader

Credit: 0.5 Elective

Description: This is a semester course. 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 Ambleside at Sandy River and Rangeley Lakes Railroad. 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.

Course Name: Sociology

Grades: 11-12

Prerequisite: N/A

Credit: 0.5 Elective

Description: This is a semester course. 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.

Course Name: Psychology

Grades: 11-12

Prerequisite: N/A

Credit: 0.5 Elective

Description: This is a semester course. 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.

Course Name: Psychology AP

Grade: 12

Prerequisite: N/A

Credit: 1 Elective



THOMAS
College

Thomas College Offers Dual Enrollment and 3 College Credits

Description: This is a year long course in the study of Psychology. The course will follow the AP curriculum from the College Board. There will be preparation for the AP Exam in May as well. 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. This course is designed to be an advanced version of the CP Psychology semester, the AP class includes a higher level of reading and writing that will be in line with an introductory psychology class taken at a University. Students may find it beneficial to take the CP Psychology class before taking this class, but it

is not required. The curriculum will go more in depth than the CP class and include more topics.

Course Name: History vs Hollywood

Grades: 11-12

Prerequisite: N/A

Credit: 0.5 Elective



THOMAS
College

Thomas College Offers Dual Enrollment and 3 College Credits

Description: This is a semester course. 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.

Course Name: Comparative Government and Politics AP

Grade: 12

Prerequisite: N/A

Credit: 1 Elective



THOMAS
College

Thomas College Offers Dual Enrollment and 3 College Credits

Description: 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.

HEALTH AND PHYSICAL EDUCATION

Course Name	Level	Length	Prerequisite
Intro to P.E.		Semester	
Phys Ed 10		Semester	Intro to P.E.
Team Sports		Semester	P.E. 10
Net Sports		Semester	P.E. 10
Fitness For Life		Semester	P.E. 10
Health		Semester	

Students will need to take Intro to P.E and P.E. 10 and then will get to pick one elective to take. Students can take as many PE classes as they want after they have met their requirements.

Course Name: Intro to P.E
Prerequisite: N/A

Grades: 9
Credit: 0.5 PE

Description: This is a semester class. This course is designed to provide instruction and opportunity for students to increase motor skill competency, improve social interaction, and participate in a variety of fitness activities over an extended period of time. In this class students will participate in Ultimate Frisbee, Team Sports, Badminton, Pickleball, Gym Games, and Fitness Components.

Course Name: Phys Ed 10
Prerequisite: Intro to P.E.

Grades: 10
Credit: 0.5 PE

Description: This is a semester class. This course is designed to provide instruction and opportunity for students to increase motor skill competency, improve social interaction, and participate in a variety of fitness activities over an extended period of time. Students will be tested on the Fitnessgram and be able to compare their scores from the previous year. At the end of the semester students will also participate in the Presidential Fitness Test. In this class students will play Volleyball, Soccer, Floor Hockey, Wiffleball, Tennis, Gym Games, and get to choose two other sports to play as a group.

Course Name: Team Sports
Prerequisite: Intro to PE and P.E. 10

Grades: 11-12
Credit: 0.5 PE

Description: This is a semester class. This course is designed to provide instruction and opportunity for students to increase motor skill competency, improve social interaction, and participate in a variety of fitness activities over an extended period of time. Students will participate in Football, Soccer, Basketball, Wiffleball, and get to choose 2 or 3 other activities to play.

Course Name: Net Sports
Prerequisite: Intro to PE and P.E. 10

Grades: 11-12
Credit: 0.5 PE

This is a semester class. This course is designed to provide instruction and opportunity for students to increase motor skill competency, improve social interaction, and participate in a variety of fitness activities over an extended period of time. Students will compete in Pickleball, Tennis, Badminton, and Volleyball. Students will play other types of games, but the primary focus is on net sports.

Course Name: Fitness For Life
Prerequisite: Intro to PE and P.E. 10

Grade: 11-12
Credit: 0.5 PE

Description: This is a semester class. Students will participate in mostly workouts in the weight room as well as some workouts to improve overall conditioning. After workouts are over students will get some time to participate in games or activities.

Course: Health
Prerequisite: N/A

Grade: 10
Credit: 0.5 Health

Description: This is a semester course. 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.

ART

Course Name	Level	Length	Prerequisite
Intro to Art		Year	
Drawing		Semester	Intro to Art
Painting		Year	Intro to Art required/Drawing I and II preferred
Black and White Photography (Offered every other year)		Semester	Intro to Art
Studio Art Honors	Honors	Semester/Year	Intro to Art and teacher approval required
Ceramics		Semester	Intro to Art is preferred
Digital Photography		Semester	Intro to Art is preferred

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.

Course Name: Intro to Art
Prerequisite: N/A

Grades: 9-12
Credit: 1 Fine Art

Description: This is a year long class. 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, sculptural projects, and tapestry weaving. They will also study the art of world cultures and historically significant artists.

Course Name: Drawing
Prerequisite: Intro to Art

Grades: 10-12
Credit: 0.5 Fine Art

Description: This is a semester course. In this course, students will explore a variety of drawing techniques and concepts including line and contour drawing, gesture drawing, rendering with graphite and colored pencils, value studies, perspective drawing, street art, collage, and portraiture. Students will increase competency in visual, technical, and conceptual problem-solving, and will develop communication skills in art-making, art criticism, and appreciation. Art mediums used include graphite, colored pencil, oil pastel, charcoal and chalks, Sharpie markers, and college materials. **This course can be taken multiple times.**

Course Name: Painting
Prerequisite: Intro to Art required/Drawing preferred

Grades: 11-12
Credit: 1 Fine Art

Description: This is a year long class. In this course, students will learn fundamental painting techniques and explore the creative potential of painting and self-expression using water-soluble paints (acrylic and watercolor) on a variety of surfaces (paper, canvas, masonite) and will develop communication skills in art-making, criticism, and appreciation in the process. Students will work on individual and collaborative pieces. Students will study art movements, work of historically significant and contemporary artists, and create reproductions of famous works and several original paintings in a variety of size formats and styles.

Course Name: Black and White Photography
Prerequisite: Intro to Art

Grades: 11-12
Credit: 0.5 Fine Art

Description: This is a semester course. In this course, students will learn basic black and white photography processes including manual 35-mm SLR camera operation, film development, print processing, and print presentation as they explore photography as an art form. Students will become familiar with artistic elements and principles of design when making compositional decisions in their work. They will explore the history of photography and learn about significant photographers, their

styles, and works. Upon completion of photography assignments, students will participate in classroom presentations and critiques. Photography students will have opportunities throughout the semester to have their work displayed in various public settings as well as participating in student art competitions. A manual 35-mm SLR camera is required for this course. The Art Department has a limited number of cameras for student use and those can be signed out at no cost to students. **This course will be offered during the 2021-2022 school year.**

Course Name: Studio Art Honors

Grades: 11-12

Prerequisite: Intro to Art and teacher approval required

Credit: 0.5/1 Fine Art

Description: This is a semester-long or year-long course depending upon student needs. This art course is designed for highly motivated art students who want honors study in specific art media. Due to the range of media explored, this course may be taken more than once. Students will work on compiling a body of work in 2-3 media of teacher choice and 1 concentration of their choice. Students will capture their planning and artistic development in ongoing sketchbook work. There will be post-secondary education opportunities, an emphasis on focused independent practice, and discussion on trends in contemporary art. **Students may enroll in this course multiple times.*

Course Name: Ceramics

Grades: 10-12

Prerequisite: Intro to Art is preferred

Credit: 0.5 Fine Art

Description: This is a semester course. 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. **Students may enroll in this course multiple times.*

Course Name: Digital Photography

Grades: 10-12

Prerequisite: Intro to Art is preferred

Credit: 0.5 Fine Art

Description: This is a semester course. In this course, students will learn new skills to achieve the best results with their own digital cameras, while working to explore the art of photography in new ways. Students will learn both rudimentary and advanced levels of digital photo editing to attain new techniques for use in the fine art of digital printing. Digital Photography students will work on projects containing a wide range of subject matter, including portraits, outdoor photography, and photomanipulation (with design applications for a book cover design project). Upon completion of digital photography assignments, students will participate in classroom presentations and critiques. Students will chiefly use the application, Acorn, that is available through MLTI free of charge on the Macbook Airs. We will also explore the use of AdobeLightroom and Adobe Photoshop to some extent, during the semester. A digital camera/mobile device with a lens specs of 10 MP or higher is required.

MUSIC

Course Name	Level	Length	Prerequisite
Concert Band		Year	
Jazz Band		Year	Permission of Instructor
Concert Chorus		Year	
Chamber Singers		Year	Permission of Instructor
History of Rock and Roll		Semester	
Intro to Piano		Semester	
Music Theory		Semester	
Introductory Guitar		Semester	
Intermediate Guitar		Semester	

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.

Course Name: Concert Band

Grades: 9-12

Prerequisite: N/A

Credit: 1 Fine Art

Description: 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.

Course Name: Jazz Band

Grades: 9-12

Prerequisite: Permission of Instructor

Credit: 0.5 Fine Art

Description: This is a year long course. 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.

Course Name: Concert Chorus

Grades: 9-12

Prerequisite: N/A

Credit: 1 Fine Art

Description: This is a semester or year long course. 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.

Course Name: Chamber Singers

Grades: 9-12

Prerequisite: Permission of Instructor

Credit: 0.5 Fine Art

Description: This is a year long course. 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.

Course Name: History of Rock and Roll

Grades: 9-12

Prerequisite: N/A

Credit: 0.5 Fine Art

Description: From its earliest beginnings to the present day, this course surveys the inception, evolution, and development of Rock music in America and abroad. In addition to in-depth studies of Rock music and the artists who created it, students will examine the sociological, political, and economic conditions which influence its development. Areas of concentration include: Identify styles of early rock and roll, distinguish groups by their specific sound and methods of performance, draw correlations between style periods and recognize the style period by its distinctive sound and performance, articulate the social factors that were influenced by rock.

Course Name: Intro to Piano

Grades: 9-12

Prerequisite: N/A

Credit: 0.5 Fine Art

Description: This is a semester course. Have you ever wanted to learn to play the piano? This course is designed for students who wish to develop basic piano playing skills. Time in class will be spent both on and off the keyboards. While playing, students will be working individually and in small groups to master the techniques of playing, and to learn pieces. Students will be able to focus on songs of their choosing to learn. There will also be time spent in group instruction on musical notation and theory. Areas of concentration include: note reading, aural skills, singing songs, rhythmic patterns, chord study, musical forms, improvisation and performing experiences.

Course Name: Music Theory

Grades: 10-12

Prerequisite: N/A

Credit: 0.5 Fine Art

Description: This is a semester course. 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, 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. Freshman are allowed with permission from the teacher.

Course Name: Introductory Guitar

Grades: 9-12

Prerequisite: N/A

Credit: 0.5 Fine Art

Description: This is a semester course. This course is designed for the student who has limited to intermediate musical experience, and who has an interest in learning the basics of music and playing guitar. The class will serve as an introduction to the guitar, music notation and TAB reading, music theory, music history, and songwriting. The class focuses on helping the student with different levels of musical training, develop a basic understanding of music through learning how to play the guitar at a beginning/intermediate level by working individually and as an ensemble on various songs in a variety of genres. Students are allowed to provide their own (acoustic) guitar.

Course Name: Intermediate Guitar

Grades: 9-12

Prerequisite: N/A

Credit: 0.5 Fine Art

Description: This one-semester course is designed for students with previous guitar experience. Students will receive guidance and direction in solving problems related to playing the guitar at an intermediate level and will learn many of the different styles, skills and techniques required to become an even more successful guitarist. Areas of concentration include: note reading, aural skills, flat-picking, singing songs, rhythmic patterns, chord study, finger-picking styles, musical forms, improvisation and performing experiences.

WORLD LANGUAGES

Course Name	Level	Length	Prerequisite
French 1 & 2 Culture and Conversation		Year	
French 1 Honors	Honors, DE	Year	
French 2 Honors	Honors, DE	Year	UMA FRE 101
French 3 Honors	Honors, DE	Year	UMA FRE 102
French 4 Honors	Honors, DE	Year	UMA FRE 203
German 1		Year	
German 2		Year	German 1
German 3		Year	German 2
German 4 Honors	Honors	Year	German 3
German 5 Honors	Honors	Year	German 4
Spanish 1		Year	
Spanish 2		Year	Spanish 1
Spanish 3		Year	Spanish 2
Spanish 4 Honors	Honors	Year	Spanish 3
Spanish 5 Honors	Honors	Year	Spanish 4

In today's global economy it is imperative that America's workforce understand other cultures and languages in order to compete. Studying a world 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.

If a student fails semester 1 of a language they will be removed from the course for semester 2. The student may repeat the course the following year.

FRENCH

Course Name: French 1 & 2 Culture and Conversation

Grades: 9-12

Prerequisite: N/A

Credit: 1 Elective

Description: This is a CP level French course designed for students who need two years of language study for college, but who do not necessarily intend to continue with French. Rather than spending lots of energy laying the grammatical groundwork for more advanced levels, this course focuses its efforts on spoken and written fluency, and a deeper understanding of French and American culture. A practical use of French will be emphasized so that these students leave with a lasting memory of French culture and practical language. Students are expected to reach an ACTFL proficiency level of N3 by the end of their second year.

Course Name: French 1 Honors

Grades: 9-12

Prerequisite: N/A

Credit: 1 Elective



UMA FRE 101, 4 credits

Description: This is an honors level course that offers dual enrollment in UMA. It is a 4-credit college course taught in French. Speaking, listening, writing and reading will be equally stressed. The course is meant to be a preparation for UMA 102. This course is open to anyone ready to begin a study of French with the goal of becoming a proficient speaker and writer. French and Francophone cultures and cultural influence will be discussed throughout the course. Students are expected to reach an ACTFL proficiency level of N4.

Course Name: French 2 Honors

Grades: 10-12

Prerequisite: UMA FRE 101

Credit: 1 Elective



UMA FRE 102, 4 credits

This is an honors level course that offers dual enrollment in UMA. It is a 4-credit college course taught in French. Speaking, listening, writing and reading will be equally stressed. The course is meant to be a preparation for UMA 203. French and Francophone cultures and cultural influence will be discussed throughout the course. Students are expected to reach an ACTFL proficiency level of I1.

Course Name: French 3 Honors
Prerequisite: UMA FRE 102

Grades: 11-12
Credit: 1 Elective

 **UMA FRE 203, 4 credits**

Description: This is an honors level course that offers dual enrollment in UMA. It is an intermediate 4-credit college course taught in French. Speaking, listening, writing and reading will be equally stressed. The course is meant to be a preparation for UMA 204. French and Francophone cultures and cultural influence will be discussed throughout the course. Students are expected to reach an ACTFL proficiency level of I2.

Course Name: French 4 Honors
Prerequisite: UMA FRE 203

Grades: 12
Credit: 1 Elective

 **UMA FRE 204, 4 credits**

Description: This is an honors level course that offers dual enrollment in UMA. It is an intermediate 4-credit college course taught in French. Speaking, listening, writing and reading will be equally stressed. The course is designed so that the literature we read correlates to the grammar found in the textbook. Students are expected to reach an ACTFL proficiency level of I3.

 **Minor in French: Language & Culture Track**
College of Arts & Sciences

Minor requirements: 20 credits

<p>Course Requirements (16 credit hours):</p> <ul style="list-style-type: none"> <input type="checkbox"/> FRE 101 (Honors 1)- 4 credits <input type="checkbox"/> FRE 102 (Honors 2)- 4 credits <input type="checkbox"/> FRE 203 (Honors 3)- 4 credits <input type="checkbox"/> FRE 204 (Honors 4)- 4 credits 	<p>One of the following electives (3 credit hours)</p> <ul style="list-style-type: none"> <input type="checkbox"/> FRE 394 (3 credits)- Exchange trip or service learning, teaching French to elementary kids OR <input type="checkbox"/> FRE 340 (3 credits)- Francophone Literature, online OR <input type="checkbox"/> HUM 350W (3 credits)- Franco-Americans: Cultural Identity in Context, online
<p>Experiential Electives:</p> <ul style="list-style-type: none"> <input type="checkbox"/> FRE 202 (1 credit)- Intermediate French Immersion weekend, last weekend in September: “le français dans le bois” 	

GERMAN

Course Name: German 1

Prerequisite: N/A

Grades: 9-12

Credit: 1 Elective

Description: 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. Students are expected to reach an ACTFL proficiency level of at least novice 3 by the end of the year.

Course Name: German 2

Prerequisite: German 1

Grades: 9-12

Credit: 1 Elective

Description: This is a CP level German course designed for students who desire a course more focused on sentence structure and situational writing and speaking. This course focuses its efforts on the skills of listening, speaking, reading, writing, and a deeper understanding of German culture. A holistic use of German will be emphasized so that these students leave with a lasting memory of German culture and practical language. Students are expected to reach an ACTFL proficiency level of at least Novice 4 by the end of the year.

Course Name: German 3

Prerequisite: German 2

Grades: 10-12

Credit: 1 Elective

Description: This is a CP level German course designed for students who desire a faster-paced, more grammatically intensive German course. This course focuses its efforts on the skills of listening, speaking, reading, writing, and a deeper understanding of German culture. A holistic use of German will be emphasized so that these students leave with a lasting memory of German culture and practical language. Students are expected to reach an ACTFL proficiency level of Intermediate 2 by the end of the year.

Course Name: German 4 & 5 Honors

Prerequisite: German 3 or German 4

Grades: 11-12

Credit: 1 Elective

Description: This is an Honors level German course designed for students who desire a faster-paced, more grammatically intensive German course. This course focuses its efforts on the skills of listening, speaking, reading, writing, and a deeper understanding of German history, media and culture. A holistic use of German will be emphasized so that these students leave with a lasting memory of German culture and practical language. Students are expected to reach an ACTFL proficiency level of at least Intermediate 3 by the end of the year for German 4 (Intermediate 4 for German 5).

SPANISH

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

Course Name: Spanish 1
Prerequisite: N/A

Grades: 9-12
Credit: 1 Elective

Description: 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.

Course Name: Spanish 2
Prerequisite: Spanish 1

Grades: 9-12
Credit: 1 Elective

Description: This course builds on the skills of Spanish I, and is for students who are serious about learning to speak and write the language. 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, and students are encouraged to speak in Spanish as much as possible. Students are expected to reach an ACTFL proficiency level of Intermediate 1 by the end of the year.

Course Name: Spanish 3
Prerequisite: Spanish 2

Grades: 10-12
Credit: 1 Elective

Description: This course continues to strengthen conversational, reading and writing skills, and requires students to do independent review of previously learned concepts. 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. Students are expected to reach an ACTFL proficiency level of Intermediate 2 by the end of the year.

Course Name: Spanish 4 Honors
Prerequisite: Spanish 3

Grades: 11-12
Credit: 1 Elective

Description: In this fourth year course, conversational and literary fluency are goals. 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 listening and reading comprehension. Students are expected to reach ACTFL proficiency level of Intermediate 3 by the end of the year.

Course Name: Spanish 5 Honors

Grades: 11-12

Prerequisite: Spanish 4 Honors

Credit: 1 Elective

Description: In this course, 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, skits and reading literature. The class will be conducted almost exclusively in Spanish. Students are expected to reach ACTFL proficiency level of Intermediate 4 by the end of the year.

CAREER PREPARATION

Course Name	Level	Length	Prerequisite
Accounting	DE	Year	
Personal Finance	DE	Semester	
Technology and Career Exploration		Semester	
Web Design (Offered every other year)	DE	Semester	
Yearbook		Year	
JMG (Jobs for Maine Graduates)		Year	
Introduction to Industrial Arts		Year	
Wood Design		Semester	Intro to IA
Wood Design Honors	Honors	Semester	Wood Design completion with high achievement or permission of instructor
Forging		Semester	Intro to IA
Fine Metals		Semester	Intro to IA or Intro to Art
CAD/CAM/Rapid Prototyping		Semester	Intro to IA or Permission of Instructor
Architectural Drawing and Design		Semester	Intro to IA or Permission of Instructor
Boat Building		Year	Permission of Instructor

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

Course Name: Accounting

Grades: 11-12

Prerequisite: N/A

Credit: 1 Elective



Thomas College Offers Dual Enrollment and 3 College Credits

Description: 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. Web-based software is used. This course is appropriate for students interested in business-related careers. It is also recommended for any student considering college in any business field.

Course Name: Personal Finance

Grades: 11-12

Prerequisite: N/A

Credit: 0.5 Financial Lit



Thomas College Offers Dual Enrollment and 3 College Credits

Description: This is a semester class. As adults, students will need to make sound financial decisions to achieve their personal lifestyle goals. Topics include money management skills, insurance & risk management, budgeting, and more.

TECHNOLOGY & CAREER DEVELOPMENT ELECTIVES

Course Name: Technology and Career Exploration

Grades: 9

Prerequisite: N/A

Credit: 0.5 Technology

Description: This course is intended as the starting point for learning skills that will help freshmen start the journey towards career exploration and the skills required to become successful in the future workplace. Activities will apply to both technology and the soft skills that future employees need. This class is required for all students.

Course Name: Web Design

Prerequisite: N/A

Grades: 10-12

Credit: 0.5 Technology



Thomas College Offers Dual Enrollment and 3 College Credits

Description: This is a semester class. This course focuses on such topics as beginning HTML, Web standards and accessibility, communication skills and strategies, creation of Web media, and the planning, development, publishing, and evaluation of Web sites. The project-based activities include teamwork strategies that reflect real-world work-skills and the activities performed by professional Web designers.

Course Name: Yearbook

Prerequisite: N/A

Grades: 11-12

Credit: 1 Elective

Description: Learn to use Lifetouch's Yearbook software, 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 and work in a business style class that will prepare the yearbook.

Course Name: JMG

Prerequisite: N/A

Grade: 9-12

Credit: 1 Elective

Description: In JMG, you will work on/learn Leadership Skills, Communication Skills, Team Building Skills, Financial Literacy Skills, Networking Skills, Career/College Exploration, Philanthropy and more. All of these are necessary to be successful in the "real world." No two students are the same, so classes are small and student centered to offer personalized education plans that are tailored to you. We will have a lot of fun while also preparing & planning for your future! Come join the JMG family of more than 10,000 students we serve in Maine!

INDUSTRIAL ARTS

Course Name: Introduction to Industrial Arts

Prerequisite: N/A

Grades: 9-12

Credit: 1 Fine Art

Description: 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.

Course Name: Wood Design

Prerequisite: Intro to IA

Grades: 10-12

Credit: 0.5 Fine Art

Description: 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.

Course Name: Wood Design Honors
Prerequisite: Wood Design completion with high achievement
or Permission of Instructor

Grades: 11-12
Credit: 0.5 Fine Art

Description: This is a semester course. 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.

Course Name: Forging
Prerequisite: Intro to IA or Intro to Art

Grades: 10-12
Credit: 0.5 Fine Art

Description: This course introduces students to traditional blacksmithing techniques that center around forging steel (or altering metal through hammering). A variety of decorative approaches for working with steel will be shown. Students will also be taught raising techniques to turn flat sheets of copper into handmade bowls. Emphasis is placed primarily on mastery of techniques, craftsmanship, and perseverance however, aesthetics, design development and ergonomics will also be addressed. If you enjoy this class you might also consider taking Fine Metals.

Course Name: Fine Metals
Prerequisite: Intro to IA or Intro to Art

Grades: 10-12
Credit: 0.5 Fine Art

Description: Students will be introduced to fabrication techniques and design concepts associated with jewelry and small object construction. Through sawing, filing, silver soldering, with a torch and hammering skills we will explore materials such as sterling silver, copper, brass and semi-precious gemstones. Projects will be focused around a design challenge and a technical component which will expand students' understanding of what jewelry and small object design can be while teaching them valuable skills associated with the industry. **Students may enroll in this course multiple times.*

Course Name: CAD/CAM/Rapid Prototyping
Prerequisite: Intro to IA or Permission of Instructor

Grades: 10-12
Credit: 0.5 Elective

Description: This semester course will provide the opportunity to understand the complexities of engineering drawing using Computer Aided Drafting (CAD) software extensively. Students will become proficient with CAD/CAM software for mechanical engineering: 3D printing and CNC Routing will be used to produce rapid prototypes of the CAD designs.

Course Name: Architectural Drawing and Design
Prerequisite: Intro to IA or Permission of Instructor

Grades: 10-12
Credit: 0.5 Elective

Description: This is a semester class. 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.

Course Name: Boat Building
Prerequisite: Permission from Instructor

Grades: 11-12
Credit: 1 Elective

Description: Boat building is a wonderful blend of art and science, physics and history as well as aesthetics and practicality. It is a well established occupation within the state of Maine. This course is designed to meet the needs of a variety of students, possibly leading to a job in the boat building industry. It incorporates topics from both mathematics and industrial arts. The practical application of mathematics will be introduced while learning the skills, history, and techniques of boat building. This class may be taken for 0.5 Fine Arts credit and 0.5 Math credit.

ADDITIONAL ELECTIVES

Course Name: Teen Issues

Grades: 10-12

Prerequisite: N/A

Credit: 1 Elective

Description: It's not easy being a teenager in today's world. From depression and eating disorders to bullying and cutting, teens grapple with a wide range of issues as they grow and develop. On the other hand there is much for teens to celebrate as they explore new learning opportunities in topics not always addressed in course work, or find creative expression in the arts. In this service learning course students will drive the development and delivery of the annual Teen Issues program at Maranacook. Students will collaborate to identify topics for the program, secure workshops and presenters, plan engaging assemblies to kick off and close the program, and evaluate the event. Our goal is to provide students the opportunity to apply collaboration, communication, and problem solving skills to serve the whole school community.

Course Name: Work Experience

Grades: 9-12

Prerequisite: Permission of School Counselor

Credit: 0.5/1 Elective

Description: This is a Semester/Year long course. 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. Participation in this course is above and beyond this six course requirement.

Course Name: Off-Site Work Experience

Grades: 12

Prerequisite: Permission of Administrator

Credit: 1 Elective/Sem

Description: This is a semester/year long course. 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 school counselor. Credit is awarded by semester.

Course Name: Senior Project

Grades: 12

Prerequisite: Interview with Supervisor and Acceptance of Proposal

Credit: 0.5/1 Elective

Description: This is a semester or a year long class. 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 skills in a martial art are examples of valuable learning experiences and would be considered appropriate as Senior Projects.

EARLY COLLEGE CREDIT PROGRAMS

EARLY COLLEGE CREDIT

Grades: 11-12

Prerequisite: Application with School Counselor

A partnership with UMO, UMA, UMF, Colby, and KVCC allows Juniors and Seniors with a “B” or better average to take freshman-level college courses at no charge. Successful completion of these courses is worth 3 college credits that will transfer to most colleges and universities. Each class will also be worth 1 elective high school credit. Classes are available on a first-come, first-served basis. If you are interested in pursuing this option, please schedule time with your school counselor. College classes do not count in GPA calculation.

AP4ALL

Grades: 11-12

Prerequisite: Application with School Counselor

A partnership with the State of Maine offers some online AP classes for courses that are not available through Maranacook’s curriculum. Students need to see their counselor to review possible courses.

MARANACOOK ALTERNATIVE PROGRAM (MAP)

The Maranacook Alternative Program guides alternative learners toward graduation within a creatively individualized educational environment. Academic and 21st century skills are fostered through experiential, community-based learning challenges. We aim to develop within our students a strong sense of respect for self, others, and community. Students foster independence and responsibility by working through effective problem solving and group processing strategies. Most importantly, students gain a deeper understanding of themselves as lifelong learners. For more information contact Guidance or the MAP teacher.

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 School's 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 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 Individual Education Plan (IEP) process.

CATC

Course Name	Length	Prerequisite
Architectural & Engineering Design	Year	N/A
Auto Body Repair-Paint & Refinishing	Year	N/A
Automotive Technology I	Year	Knowledge of Algebra I concepts, ability to work formulas and equations, reading and writing at grade level
Automotive Technology II	Year	Automotive Technology I & Application
Building Construction	Year	N/A
Business Academy	Year	N/A
Business Academy II	Year	Business Academy & Application
Certified Nursing Assistant	Year	N/A
Computer Technology I	Year	N/A
Computer Technology II	Year	Computer Technology II & Application
Culinary Arts I	Year	N/A
Culinary Arts II	Year	Culinary Arts I & Application
Early Childhood Education	Year	N/A
Electrical Technology	Year	N/A
Firefighting	Year	N/A
Graphic Design and Printing I	Year	N/A
Graphic Design and Printing II	Year	Graphic Design and Printing I & Application
Law Enforcement Academy	Year	N/A
Machine Tool Technology & Welding Fabrication I	Year	N/A
Machine Tool Technology & Welding Fabrication II	Year	Machine Tool Technology & Welding Fabrication I & Application
Medical/Veterinarian Terminology	Year	N/A
Plumbing & Heating	Year	N/A

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 school counselor.

Course Name: Architectural & Engineering Design
Prerequisite: N/A

Grades: 11-12
Credit: 3 Electives

Description: Beginning with the basics of design, this program will prepare students for entry-level positions in the industry and the tools for post-secondary education. Design skills are developed through applied drawings created by state-of-the-art equipment. Individualization of instruction allows students to qualify for beginning positions while providing an excellent foundation for those planning a career in architecture, interior design, engineering, and related fields. Students can develop creative portfolio work required for admission to programs, such as UMA Bachelor of Architecture and most other professional architecture and design-related programs.

In the Architectural Design portion, students will learn design principles and methods of construction in residential design. Students will develop the necessary technical skills to communicate architectural ideas in an understandable, efficient, and accurate manner. Field trips to architecture and engineering college programs in Maine, along with opportunities to see construction and architecture in Maine and urban contexts such as Boston, provide students a well-rounded and very inspiring introduction to the fields of architecture and engineering.

This class will also design and draw plans for a residence, which may be constructed by the Building Construction class. Students can learn to communicate ideas through freehand drawing/painting, Chief Architect CAD, AutoDesk CAD, SketchUp, and Revit CAD...along with the opportunity for extensive hands-on 3-D model-making opportunities.

In the Engineering Design portion, students will learn to apply the principles of design through developing 3-D parts, assemblies, and basic 3-D printing technology. Students will learn the basics of bridge design through research, model-making, and basic structural engineering calculations. Projects assigned are based on a differentiated approach to meeting the interests and skills potential of the individual students. Students can develop their own projects with approval and guidance by instructor.

Certifications Offered: SkillsUSA
NOCTI Architectural and Technical Drafting Certification
OSHA 10 hour General Industry Course

Course Name: Auto Body Repair-Paint & Refinishing
Prerequisite: N/A

Grades: 11-12
Credit: 3 Electives

Descriptions: Auto Body Repair – Paint & Refinishing is a two year program providing instruction in all phases of automotive refinishing and non-structural repair.

Students will cover the basics of Automotive Repair and Refinishing. Students will work with spray guns and related equipment while in the spray booth and mixing room. They will also learn how to identify paint defects, along with their causes and how to correct them. Color theory and application will also be covered in addition to detailing and cleanup. During the school year, students will be assigned to projects on donor vehicles along with repair panels that will enhance their skill level.

Students will also cover surface preparation. During the course, students will receive hands on training on both steel and plastic exterior panel repair and replacement. The curriculum will focus on the proper disassembly and reassembly of motor vehicles. Students will learn how to deal with moveable glass and hardware and trim removal and replacement. Students will also learn concepts in the use of plastics and adhesives in the repair procedure.

During the year, students will be working on shop projects and some customer vehicles. In the final semester, with instructor permission, students may be allowed to bring in a vehicle for repair. The Auto Body program also includes topics such as: ethics, resume writing, job interviewing and has an intensive safety program.

For the 2nd year student, the program reinforces previous skills learned and introduces a more individual learning plan. This is achieved through more complex projects that involve problem solving.

Certifications Offered:

NATEF/ASE Student Certification Program

OSHA 10 hour General Industry Course

SP/2 Safety Program

College Credit Opportunities:

Dual Enrollment with: Northern Maine Community College

Articulation Agreement with: New England Institute of Technology (NEIT)

Lincoln Tech

Course Name: Automotive Technology I

Grades: 11-12

Prerequisite: Knowledge of Algebra 1 concepts, ability to work formulas and equations, reading and writing at grade level

Credit: 3 Electives

Description: The automotive technology program will prepare students for entry level positions in the automotive field. The Maintenance and Light Repair curriculum is approved by The National Automotive Technicians Education Foundation(NATEF) and the program is NATEF certified in the following areas; brakes, electrical, engine performance, steering and suspension, engine repair, automatic transmission and transmission work, and heating and air conditioning. Industry standards are used and incorporated as well as up to date equipment to prepare a student for today's work environment. Students will be taught professionalism that an employer will expect on the job. The program offers a second year to improve students' skills and to advance knowledge in additional areas

Certifications Offered: NATEF Brakes, NATEF Electrical, NATEF Engine Performance, NATEF Steering and Suspension, SP/2 Safety Program

College Credit Opportunities:

Dual Enrollment with: Central Maine Community College

Articulation Agreement with: Southern Maine Community College

Course Name: Automotive Technology II

Grades: 12

Prerequisite: students who have successfully Completed Automotive Technology I may apply. Applications will be considered based on a rubric provided by CATC.

Credit: 3 Electives

Description: Students will continue the work started in Automotive Technology 1 by advancing their knowledge of automotive electronics, engine performance, and steering and suspension.

Course Name: Building Construction

Grades: 11-12

Prerequisite: Students should have mastery of measuring, reading, Arithmetic and computation skills. They should also be familiar with a full-function calculator in order to perform basic mathematical operations and to perform calculations using fractions and decimals.

Credit: 3 Electives

Description: 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.

Certifications Offered: OSHA 10 hour

College Credit Opportunities:

Dual Enrollment with: Central Maine Community College

Course Name: Business Academy

Grades: 11-12

Prerequisite: N/A

Credit: 3 Electives

Description: The Business Academy is a dual enrollment program designed to provide students the fundamental skills necessary for success as they continue their education after high school and enter the workforce.

Students enrolled in the Business Academy have the opportunity to earn up to 15 college credits, which equates to one semester of college. It is an excellent foundation for business education at the post-secondary level.

Topics include: management, marketing, communication, business computing, finance and leadership.

College Credit Opportunities:

Dual Enrollment with: Kennebec Valley Community College

Northern Maine Community College

Thomas College

University of Maine at Presque Isle

Course Name: Business Academy II

Grades: 12

Prerequisite: Students that have successfully completed Business Academy may apply. Applications will be considered based on a rubric provided by CATC. **Credit:** 3 Electives

Description: The Business Academy is a dual enrollment program designed to provide students the fundamental skills necessary for success as they continue their education after high school and enter the workforce.

Students enrolled in the Business Academy have the opportunity to earn up to an additional 15 college credits, which equates to one semester of college. It is an excellent foundation for business education at the post-secondary level.

Topics include: management, marketing, communication, business computing, finance and leadership.

College Credit Opportunities:

Dual Enrollment with: Kennebec Valley Community College

Northern Maine Community College

Thomas College

University of Maine at Presque Isle

Course Name: Certified Nursing Assistant

Grades: 11-12

Prerequisite: N/A

Credit: 3 Elective

Description: The CNA program provides students with the opportunity to acquire knowledge and to learn the skills necessary to become a Certified Nursing Assistant (CNA). 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 to become a Certified Nursing Assistant. Students are prepared to work as a CNA 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 take the C.N.A. exam. A student interview and references may be required. A student must be 16 years of age to be eligible for a State of Maine Board of Nursing CNA license. Students can not gain employment until they are 18 years of age. Teachers in the Health Careers Academy encourage juniors to take medical terminology to provide a solid foundation of the medical language and then enroll in the CNA program as a senior.*

Certifications Offered: State of Maine Certified Nursing Assistant, OSHA 5 hour card

Course Name: Computer Technology I

Grades: 11-12

Prerequisite: N/A

Credit: 3 Elective

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. Testout PC Pro Course: PC Hardware and Software curriculum provides an introduction to the computer hardware and software skills needed to help meet the growing demand for entry-level information and communication technology (ICT) professionals. The curriculum covers the fundamentals of PC technology, networking, and security and also provides an introduction to advanced concepts.

Certifications Offered: SkillsUSA, Testout PC Pro, OSHA 10, Network Pro
College Credit Opportunities: Central Maine Community College

Course Name: Computer Technology II **Grades:** 12
Prerequisite: Students who have successfully completed Computer Technology **Credit:** 3 Elective may apply. Applications will be considered based on a rubric provided by CATC.

Description: This program will prepare students for the CompTIA network+ exam. Students gain the knowledge and skills they need to install, configure and maintain a network for a small business. Providing them with simulations, lectures and information for preparation. Students will further their knowledge and resume with the additional networking information. This is an accelerated class with the second half of the school year open to possibility of more certifications or a student project.

Course Name: Culinary Arts **Grades:** 11-12
Prerequisite: N/A **Credit:** 3 Elective

Description: The Culinary Arts program trains students that are serious for a career in the Food Service Industry. Students learn basic food preparation and safety, menu planning, baking fundamentals and proper dining room service techniques through daily lab work. Students are expected to participate in in-house functions, banquet services and outside catering events coordinated by a professional chef with over 20 years of experience. Employment potential is excellent, and there are many post-secondary opportunities available. Students will complete a resume, compete in cooking challenges, learn basic prep of mother sauces, and complete basic knife cuts. **Students should have basic math skills and knowledge of algebra, especially with fractions, have average reading and writing skills, and be computer literate. Basic knowledge of French culinary terms is helpful. Students enrolling in the Culinary Arts program should have good attendance, have the desire to work hard, have a good attitude, be self-motivated, the desire to pursue a career in Foodservice Industry, creative thinking skills and artistic appreciation, be able to stand for long periods of time, have the ability to work in both individual and in a team setting, and have the ability to comprehend oral instructions and follow industry safety standards.*

Certifications Offered: Serv-Safe, SkillsUSA/NOCTI

College Credit Opportunities:
Articulation agreements with: Central Maine Community College, Culinary Institute of America, Eastern Maine Community College, Southern Maine Community College

Course Name: Culinary Arts II

Grades: 12

Prerequisite: Students who have successfully completed Culinary Arts I may Apply. Applications will be considered based on a rubric provided by CATC.

Credit: 3 Elective

Description: The Culinary Arts II program further trains Culinary I students that are serious for a career in the Food Service Industry. Culinary II students will learn advanced techniques in food preparation and baking. They will also gain advanced knowledge of cuisines by a professional chef with over 20 years of experience. Students will also learn an advanced dining room preparation of tableside cooking and advanced industry knowledge. Students will also help in a mentoring first year students in basic knowledge of culinary arts. Students will be held responsible for leading, coordinating, and accomplishing advanced assignments using independent performance. Students will complete a portfolio, perform cooking demonstrations, make advanced sauces made with mother sauces, and be eligible for hospitality certifications.

Certifications Offered: Serv-Safe, SkillsUSA/NOCTI

College Credit Opportunities: Articulation agreements with: Central Maine Community College, Culinary Institute of America, Eastern Maine Community College, Southern Maine Community College

Course Name: Early Childhood Education

Grades: 11-12

Prerequisite: N/A

Credit: 3 Elective

Description: Early Childhood Education offers 2 one-year programs based on the standards put for the by the National Association for the Education of Young Children. All students, regardless of year of enrollment, will assist in operating an on-site preschool program and will interact with local teachers and daycare providers when completing student teaching opportunities in the community. Students will work to develop a professional portfolio constructed on the preparation standards from the National Association for the Education of Young Children (NAEYC). **Students must be 16 to participate in this program. Students should have excellent reading and writing skills and be strong communicators.*

During the 2020-2021 school year, students will focus on healthy, safe classroom environments, as well as curriculum development. They will design a classroom layout, learn how to choose safe materials for children, receive training around safety and child abuse and develop curriculum based on standards.

Certifications Offered: OSHA, First Aid/CPR, ServSafe Safe Food Handler, Begin a CECA (Certified Early Childhood Assistant) which may be completed during the 2nd year of the Early Childhood Education program.

College Credit Opportunities:

Dual enrollment with: Northern Maine Community College

During the 2019-20 school year, students will become acquainted with professional opportunities and expectations related to the early childhood field, learn about child development, prenatal to age eight, and receive instruction regarding assessment and how to measure if children are growing and learning.

Certifications Offered:

OSHA

First Aid/CPR

Begin a CECA (Certified Early Childhood Assistant), which may be completed during the 2nd year of the Early Childhood Education program.

College Credit Opportunities:

Dual enrollment with: Thomas College

Course Name: Electrical Technology

Grades: 11-12

Prerequisite: N/A

Credit: 3 Elective

Description: The Electrical Technology program is a two year program. The program will cover AC electrical theory, residential construction wiring, and light commercial wiring. All students will receive a State of Maine Electrical Helper's license and will be required to complete the OSHA 10 hour safety course.

Class time is split between class instruction, practical wiring, labs and real world projects in the school and local community. Parts of the National Electrical Code that pertain to residential wiring are covered in great detail. There is a full size ranch-style house framed in the classroom that students will wire to code.

Students will have an opportunity to compete in the SkillsUSA competition at the local, state, and national level. The Electrical Technology program exposes students to basic electrical technology which they can build upon to develop their careers. Students will leave the program with the skills needed to work for an electrical contractor at an entry level position and with the skills needed to continue their education.

The CATC Electrical Technology program is recognized by the State of Maine Electricians' Examining Board in satisfying the 576 education hour requirement to be eligible to take the Journeyman Electrician's Exam. Graduates of the two year program receive the full education requirement (although the Board requires an additional 45 hour National Electrical Code class).

Certifications Offered:

Maine Electrical Helper's License

OSHA 10 hour

576 hour program of study requirement towards the State of Maine Journeyman License Exam

Course Name: Firefighting

Grades: 11-12

Prerequisite: N/A

Credit: 3 Elective

Description: This program is a combination of in-class theory and hands-on experiences. The program's home base is Capital Area Technical Center, but a portion of time is spent at the Augusta Fire Department's Western Avenue Station participating in real world, live experiences. The goal of this program is to provide the knowledge, skills, and abilities to the students to ready them for a career in the fire service or to support their local volunteer fire departments, which is in great need of volunteers. Most importantly, students will learn the importance of the fire service community, the worldwide family of

brothers and sisters working towards providing a service of life safety, property conservation and environmental protection, the importance of teamwork, of assisting their teammates, confidence in their teammates and in themselves.

Topics Include: History of the Fire Service and Fire Department Operations; Firefighter Health and Safety; Personal Protective Equipment; Fire Service Communications; Fire Behavior; Building Construction; Portable Fire Extinguishers, Firefighter Tools & Equipment; Ropes & Knots, Forcible Entry; Ladders; Search & Rescue; Ventilation; Water Supply; Fire Hose; Appliances & Nozzles; Fire Suppression; Firefighter Safety & Survival; Salvage & Overhaul; Firefighter Rehab; Wildland & Ground Cover Fires; Establishing & Transferring Demand; Advanced Fire Suppression; Vehicle Rescue & Extrication; Assisting Special Rescue Teams; Fire Alarm & Detection Systems; Fire & Life Systems Initiative; Fire Cause & Origin.

For those pursuing furthering their Firefighting education, this certification can be applied to Fire Science programs through the Maine Community College System.

Students should have the willingness to work hard as part of a team. High standards of professionalism, ethical and moral behavior is required in and out of the classroom.

Certifications Offered:

Maine State Firefighter 1 & 2

Course Name: Graphic Design and Printing 1

Grades: 11-12

Prerequisite: N/A

Credit: 3 Elective

Description: In this course, students will use their creativity and problem-solving skills to create original graphic and commercial art projects from concept to design to implementation. Students utilize the Adobe creative suite of products such as: Photoshop, Illustrator and Indesign to learn fundamentals of layout and design through hands on projects. Sample topic areas include Typography, Advertising, Logo Design, Digital Photography, Photo Manipulation/restoration, Tshirt Design etc. Students are also introduced to the following printing and finishing operations: screen printing, vinyl cutting/solvent printing, sublimation printing, digital output, wide format printing, and basic bindery. An emphasis is placed on professional conduct and work ethic. Hands-on experience is gained through participation in live jobs throughout the school year. **Recommendations: Students should have the ability to maintain focus and feel comfortable on a computer for an extended time, have basic math skills such as measurement, fractions, addition, subtraction, multiplication, division and percentages, exhibit appropriate workplace behaviors, ability to work independently and in group settings, understand and demonstrate safety concepts.*

Certifications Offered:

SkillsUSA Advertising and Design

OSHA 10 hour

College Credit Opportunities:

Dual Enrollment with: Central Maine Community College

Course Name: Graphic Design & Printing II

Grades: 12

Credit: 3 Elective

Prerequisite: Students who have successfully completed Graphic Design may apply. Applications will be considered based on a CATC rubric. Second Year students should be skilled in time management and should be self-directed and self-motivated.

Description: Students enrolled in this second level course will improve their design and printing skills through the production of jobs for non-profit organizations and schools. Students will complete higher level projects that have been built on the basic skills learned in Graphic Design I. Advanced topics will include: business identity package, 4 color t-shirt design and production, multi-color vinyl decal design and production, etc. Additional coursework will be tailored to individual interests. Students in Graphic Design II will also apply and demonstrate their skills by assisting first level students as mentors.

Course Name: Law Enforcement Academy

Grades: 11-12

Prerequisite: N/A

Credit: 3 Elective

Description: Students enrolled in the Law Enforcement Academy will gain a head start in this increasingly competitive field. The broad range of topics include Maine criminal law, traffic law, criminal investigations, report writing, defensive tactics, use of force options, ethics, legal subjects and human relations. 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 through lecture, videos, hands-on applications, demonstrations and practical scenarios. Major topics in the course include: defensive tactics, physical fitness, drill & ceremony, situational use of force options (pepper spray, taser, baton, firearms), low/high risk stops, crime scene processing and weekly report writing assignments. Students in the course are expected to be clean shaven, to keep their hair well groomed. Uniform, boots and equipment will be provided.

Certifications Offered:

Handgun safety course

CPR/AED

Hazardous Materials Awareness

College Credit Opportunities:

Articulation agreement with: Husson University

Course Name: Machine Tool Technology & Welding Fabrication I

Grades: 11-12

Prerequisite: N/A

Credit: 3 Elective

Description: This course will introduce students to both basic machining and welding. Activities include: lathe operations, milling machines, drill presses, blueprint reading and other tools found in the metal industry. **Students** will also be introduced to aspects of Shielded Metal Arc Welding (Stick), Metal Inert Gas Welding (MIG), Plasma Cutting, Oxy/Fuel Torch operation and Tungsten Inert Gas Welding (TIG). All students will be expected to obtain a certification in NIMS (National Industrial Metal Society) or an AWS (American Welding Society) certification. These credentials are universally recognized in each of the respective industries.

Certifications Offered:

National Industrial Metal Society (NIMS)
American Welding Society (AWS)

College Credit Opportunities:

Dual Enrollment with: Southern Maine Community College

Course Name: Machine Tool Technology & Welding Fabrication II

Grades: 12

Prerequisites: students that have successfully completed Machine Tool & Welding Fabrication may apply. Applications will be considered based on a rubric provided by CATC.

Credit: 3 Elective

Description: This course is an extension of the Machine Tool/Welding Technology I program with an increased level of expertise in machining and welding. The machinist projects assigned are more complex. Students will be exposed to computer numerical control (CNC), four jaw chucking, and other advanced processes. The welding criteria will expand to include a more comprehensive skill set in the various test positions required by the AWS (American Welding Society). The students will expand their knowledge in Tig welding, blueprint reading and other advanced aspects of welding.

Course Name: Medical/Veterinarian Terminology

Grades: 11-12

Prerequisite: N/A

Credits: 3 Elective

Description: The first semester of the course will cover medical terminology. The second semester of the course will cover veterinarian terminology. Students will learn human anatomy and physiology and companion animal anatomy and physiology, fire safety, CPR for humans and animals, and infection control procedures. Students will practice skills related to human and animal studies, such as vital signs, feeding and bathing, and other various human and animal nursing procedures. There will be opportunities to learn about careers in medical/veterinarian fields. There will be a clinical rotation at the local animal shelter during the second semester. Students will be able to attend job shadow(s) according to their career interest. Students who successfully complete the program may be eligible to become employed in a medical office setting and/or veterinary clinic. This is an excellent course to begin education in the health field because students will learn the terminology that will be a good foundation for any medical career. This course is offered during the afternoon (11:30-1:30) session only.

Certifications Offered:

CPR for humans and animals
10 hour OSHA Healthcare Certification

College Credit Opportunities:

Dual Enrollment with: Central Maine Community College

Course Name: Plumbing & Heating

Grades: 11-12

Prerequisite: N/A

Credits: 3 Electives

Plumbing and Heating offers 2 one-year programs providing instruction in all phases of plumbing and heating technology. The students will learn installation, repair, and maintenance of plumbing and heating equipment.

In the Heating year (2020-2021), students will learn the basics of oil and gas heating systems. They will learn to use the tools to maintain, install and troubleshoot heating systems. Boilers and furnaces will be worked on in our lab. Students will be involved in the installation, maintenance, and adjustment of equipment. This will require skills learned in piping, wiring, control circuitry, and sheet metal. Hot air ductwork and hydronic heat distribution units, such as baseboard and radiant, will be installed as zone of heat in our shop. Solar, wood and refrigeration will be explored as heating sources in the trades.

In the Plumbing year (2019-20), students will learn types of piping and fittings and the tools required for their proper installation. Plumbing installations will be done under slab and in wood frame spaces in and outside our shop. Students will learn about different pumps, tanks and plumbing fixtures and be involved in installation and service of the equipment. Domestic water heating by electricity, gas, oil and solar will be understood. Upon completion of the course, students will have the opportunity to receive credit for Plumbing Fundamentals in the Energy Services Technology program at Kennebec Valley Community College.

Both courses use a nationally recognized curriculum with a national registry for qualified students. Graduates have basic entry-level skills to enter the workforce or continue their education in Plumbing & Heating at a technical college.

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

Certifications Offered: National Association of Home Builders, OSHA 10 hour Construction Course, National Oilheat Research Alliance Bronze Course

College Credit Opportunities:

Dual Enrollment with: Kennebec Valley Community College