

**WINSLOW HIGH SCHOOL
COURSE DESCRIPTIONS
2009 - 2010**



**"MAKING THE MOST OF
YOUR HIGH SCHOOL YEARS"**

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NOTICE OF NON-DISCRIMINATION

Winslow High School does not discriminate in its education and employment programs on the basis of religion; age; race; color; national origin; gender; marital; or parental status; and disability and complies with Title VI of the Civil Rights Act of 1964, Title IX Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990. Inquiries regarding Title VI, Title IX, 504 and ADA may be made to the Affirmative Action Officer at 20 Danielson Street, Winslow, Maine 04901.

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COURSE SELECTION

The choices of course sequence and subjects for each year is a most important matter. It deserves very thorough consideration by students and their parents. Before making final decisions, students should obtain as much help and advice as possible from their teachers, counselors and parents.

1. At an assigned orientation period, each student will receive a description of offerings (planned subjects). The general group session will give counselors the opportunity to discuss the subjects and courses with students. Students will have the opportunity to participate in the discussion concerning vocational educational planning. They will then make preliminary course selections.
2. Students discuss their course selections with their teachers and receive their recommendations for the next year's courses. The teachers' recommendations are based on academic performance.
3. The counselors will review the course selections with each student. The appropriateness of each student's course selection will be determined based on the recommendations of their current teachers, graduation requirements and their educational/vocational plans.
4. Registration forms will be sent home for parental discussion and for signed approval. These forms are to be returned to the guidance office within **five days**. Parents are urged to schedule conferences with the counselor whenever there are questions concerning any level of a subject or of educational planning.
5. At the end of the school year, some changes may be necessary because of low or failing grades. **It is the responsibility of the student to contact his/her counselor to make changes. Counselors are available during the month of June for this purpose.**

ACADEMIC LOAD

All students must carry at least 6 credits each year. Winslow High School follows a block schedule which is an alternating day schedule, Orange & Black days.

CANCELLATION OF COURSES

Courses may not be offered if they are under subscribed or if financial constraints cause reduction in any program.

INDEPENDENT STUDY

On occasion independent study courses may be arranged for in depth study not offered in the curriculum or other isolated circumstances. The student and supervising teacher must submit an independent study proposal (available in Guidance), which includes:

- * The number of contract hours and meeting times.
- * Goals and objectives of the course.
- * Final evaluation form (pass/fail or grade).
- * Amount of credit available if successfully completed. **The proposal must be submitted to the guidance office prior to the start of the semester, and is subject to approval by administration.**

VIRTUAL HIGH SCHOOL (VHS)

VHS offers a catalog of full semester courses in the Arts, Foreign Language, Language Arts, Life Skills, Math, Science, Social Studies, Technology and AP study to students in VHS member schools.

Through a collaborative agreement with Waterville, Messalonskee and Lawrence High Schools, Winslow is able to participate in this program.

GRADUATION REQUIREMENTS

Satisfactory completion of each of the requirements listed below will be necessary for graduation from Winslow High School.

A total of 24 credits are required for graduation

These 24 credits must include:

English	4 credits
World Geo. West. Civ., & U.S. History	3 credits
Mathematics	3 credits
*Science	2 credits
Health Education	1 credit
**Fine Arts	1 credit
Physical Education	1 credit
Career Prep	½ credit
Electives	Adding up to meet total credit requirements

In addition, each student must demonstrate computer proficiency, either through completion of a designated course or by successfully passing a computer proficiency test.

*A Science course is strongly recommended for all four years. Entrance into Biology as a freshman is by permission only, based upon the Grade 8 teacher recommendation, testing scores and the academic performance of the student.

**The following courses can be used to help satisfy the Fine Arts requirement:

Yearbook, Art, Band, Chorus, Creative Writing, Introduction to Drama, Speech/Oral Interpretation, MMTC Graphic Design, Auto Body Repair, and Precision Machining

An exception to Winslow High School's graduation requirement may occur as follows: A student completes all required graduation courses through grade 11, including a third full year of English. The student then completes the freshman year, including a course in English, in a degree granting institution of higher learning. Said student may be awarded a Winslow High School diploma at the time the student's original class graduates.

Class Rank Value

Winslow High School uses a weighted grading system. The actual quarter and semester grades are what the student earns in a specific class. The GPA (cumulative) is calculated with these unweighted grades. The class rank on the Secondary School Report reflects a weighted value system earned in the level of the courses taken. *The weighting factor is determined by course difficulty. AP is factored at 1.15; Honors courses are factored at 1.10; College Prep courses at 1.05; all other courses are factored at 1.00.*

DESCRIPTION OF COURSE OFFERINGS

At Winslow High School

All half-year courses are marked with (S) for semester

ART

850 Art 1 - Credit 1

Class Rank Value: 1.05

In Art 1, the student is exposed to the basics of the elements and principles in Art Education. During the semester, the elements presented are texture, shape, line, color, perspective, still life drawing (value), and painting. The principles covered over the semester are rhythm, movement, balance, proportion, variety, emphasis and unity. Related projects require the student to show his or her creative ability. The goal is to motivate the student to use both mind and motor skills to accomplish given tasks. *This course meets the fine arts requirement toward graduation.*

855 Art 2 - Credit 1

Class Rank Value: 1.05

Prerequisite: Art 1

Art 2 entails projects assigned to the class. Each project is open for the student to interpret and individualize. Every student utilizes the instructor as a mentor and resource while working on his or her projects. Some of the areas explored are creative three-dimensional problems, painting, clay, sculpture, anatomy, and paper mache and art competitions. *This course meets the fine arts requirement toward graduation.*

BUSINESS EDUCATION/CAREER PREPARATION

627 Microsoft Office - Credit 1

Class Rank Value: 1.05

Sophomores, juniors and seniors only

This course is designed to teach word processing using *Microsoft Word*, a spreadsheet program using *Microsoft Excel*, and a presentation graphics program using *Microsoft PowerPoint*. Work will be done on IBM compatible computers. *This course meets the computer proficiency requirement toward graduation.*

631 Accounting 1 - Credit 1

Class Rank Value: 1.05

Sophomores, juniors and seniors only

Accounting will have a computer application approach using Peachtree and Quick Books software along with the handwritten approach. The course is designed to teach the student how to sort, record and summarize financial information in an orderly and systematic way. Study progresses from a sole proprietorship to partnership to a corporation. *This course meets the computer proficiency requirement toward graduation.* Accounting 1 can count as the 4th year math credit as long as students have completed Algebra 1, 2, and Geometry.

626 Career Prep –(S) - Credit ½

Class Rank Value: 1.05

Required for all sophomores beginning with the Class of 2009

Students will explore the knowledge and skills necessary for success in today's workplace. The class covers such areas as: Preparing for work, working on the job, career planning, success skills, managing your money and independent living. Students will be using the computer to go on the Choices Program and other important websites. Students will also be involved in such activities as portfolio building and job shadowing.



COMPUTER SCIENCE

370 Computer Applications - (S) - Credit ½

Class Rank Value: 1.05

This course serves as an introduction to current computer technology to give students the computer skills and tools needed for high school, college and the workplace. To be technology fluent, topics include communication through presentations, digital imaging, spreadsheets, word processing, desktop publisher, scanning, computer ethics and efficient use of the Internet. Programs introduced include: Microsoft PowerPoint 2007, Excel 2007, Word 2007, Publisher 2007, Adobe PhotoShop CS3 and the Internet. *This course meets the computer proficiency requirement toward graduation.*

371 Adv. Computer Applications – (S) - Credit ½

Class Rank Value: 1.05

Multi-Media, Web Design, and Gaming

Prerequisite: Computer Applications 1 or permission of instructor

This course uses the latest software and tools to learn skills needed for web development, digital design, animation, digital photography, gaming and data base design. HTML and DreamWeaver CS3 are used to develop web pages. Animation for the web is introduced using Flash CS3. An Introduction to Digital Photography is combined with Advanced PhotoShop CS3 techniques. Games will be developed, as well as, basic databases using Microsoft Access 2007. Print production using Microsoft Publisher 2007 will also be covered. *This course meets the computer proficiency requirement toward graduation.*

377 Programming in Java - Credit 1

Class Rank Value: 1.05

Prerequisite: Successful completion of Algebra 1

This is an introduction to programming using the Sun's *Java* programming language. This class can be a preparation for the Advanced Placement Computer Science course or can be for those students trying their hand at programming. *Java* is now one of the most popular languages used for general programming and for integrating programs into web sites. In its introductory form it is free so can be used at school or at home. The basics of programming will be studied, as well as designing simple games with graphics and sound and applying *Java* programming skills to designing robots with *Lego's RoboLab*. *This course meets the computer proficiency requirement toward graduation.*



DRAFTING AND DESIGN

Explanation of Grading Procedures for all Drafting and Design Courses: for all classes in the Drafting and Design Department, the students are graded on an individualized basis. The student's grades are based on their accomplishments, NOT on those of their classmates. Each student is given an outline with due dates for the requirements of that course and is also told what is expected of him or her. The instructor and the student determine those goals and the student's grades are based on the successful completion of those goals.

A general working knowledge of basic mathematics is very helpful for all drafting and design courses.

730 Computer Aided Drafting - Credit 1

Class Rank Value: 1.10

In this course, students will discover uses of the computer and its effect on the world of engineering and design. Drafting is the language of industry and this course will help the student who is interested in the computer and who also wants to learn some basic drafting skills. All phases of drafting and how these phases are affected by the computer will be discussed. The computer is the future in all drafting and design.

This course will be advantageous for students who are thinking of pursuing a career in the technologies or engineering fields. *This is a good basic CAD course and also meets the computer proficiency requirement.* This course is open to all students at Winslow High School. Students are not required to have any previous drafting experience to gain benefits from this course.

745 Pre-Engineering Drawing - Credit 1

Class Rank Value: 1.10

Pre-Engineering Drawing is designed as an elective to aid those technical and engineering prep students interested in schools of higher learning, such as technical and engineering colleges. Emphasis will be placed on the various methods of drafting needed to communicate in industry, including methods of communication and problem solving idea development. Since drafting is the language of industry, the mastery of these techniques is essential for success in many of the technical and engineering fields. Four disciplines will be covered: Mechanical Engineering, Computer Aided Drafting, Architectural Drawing and Design, and Civil Engineering. This course is open to all students at Winslow High School. Students are not required to have any previous drafting experience to gain benefits from this course. *This course meets the computer proficiency requirement.*



ENGLISH

FRESHMAN ENGLISH will stress the correlation of language skills: reading, writing and oral communication. Units will include vocabulary, language usage, writing, speaking and listening skills, and literature.

112 English 9 - Phase 2 - Credit 1

Class Rank Value: 1.00

This freshman English course will relate writing to a general survey of literature. Writing skills and reading strategies will be emphasized.

111 CP/English 9 - Phase 1 - Credit 1

Class Rank Value: 1.05

This freshman English course will emphasize writing, vocabulary, and grammar skills related to literature. A survey of literature will emphasize a short story unit as well as mythology, poetry, and novels.

110 Hon/English 9 - Phase 0 - Credit 1

Class Rank Value: 1.10

This freshman English class will challenge students by stressing writing, vocabulary, and grammar skills in relation to literature. Included in this study will be a unit on mythology as well as a general survey of literature including poetry, drama, short story, and novels. Expository writing will be introduced.

SOPHOMORE ENGLISH will correlate with Western Civilization as much as possible.

122 English 10 - Phase 2 - Credit 1

Class Rank Value: 1.00

World literature will be studied in this course. Writing instruction will stress good sentence structure, organization, and development of concepts. Vocabulary, research, written reports, and composition are included. Students will also participate in PSAT preparation.

121 CP/English 10 - Phase 1 - Credit 1

Class Rank Value: 1.05

This course is designed to orient the student to the evaluation and interpretation of world literature relating to history. Emphasis is placed on the acquisition of composition skills through the usual basic grammar text and a communication unit. To augment vocabulary skills, vocabulary lessons are included. Reports, research, and outside reading are expected in conjunction with each unit. Theme writing will stress development of good sentence structure and three-part essay organization. Students will also participate in PSAT preparation.

120 Hon/English 10 - Phase 0 - Credit 1

Class Rank Value: 1.10

The Sophomore Phase 0 English course consists of a survey of grammar, composition, vocabulary and world literature. Outside readings, both fiction and non-fiction are a required part of the course. Research skills are taught and expository writing is further developed. Students will also participate in PSAT preparation.

JUNIOR ENGLISH will relate to U.S. History as much as possible with a survey of American Literature.

132 English 11 - Phase 2 - Credit 1

Class Rank Value: 1.00

The junior 2 course includes a focus on vocabulary, grammar and composition. A survey of American literature with emphasis on specific literary styles such as fiction, non-fiction and drama will be included. Writing and research, as well as SAT preparation, are also important in this class.

131 CP/English 11 - Phase 1 - Credit 1

Class Rank Value: 1.05

The junior 1 course includes a review of vocabulary, grammar, composition and comprehensive English skills with an emphasis on analytical writing. A research paper is required as are writing assignments related to literature (short stories, novels, poetry, and non-fiction). Students will read and analyze a wide range of American literature pieces and will also prepare for the SAT.

130 Hon/English 11 - Phase 0 - Credit 1

Class Rank Value: 1.10

The junior 0 course includes a review of vocabulary and grammar with a focus on specific composition skills. A special emphasis will be placed on American literature ranging from Bradford to 20th century authors. Plays, poetry, essays, and short stories will be studied, and major novels will be explored. A 10 – 12 page research paper is required. Students will also participate in a SAT preparation unit. Summer reading is required.

SENIOR ENGLISH provides a survey of English literature related to some world authors.

142 English 12 - Phase 2 - Credit 1

Class Rank Value: 1.00

Senior 2 course will stress composition skills. A survey of English and world authors will stress an in-depth approach to various literary styles including fiction, poetry and drama. Short stories will be emphasized. Research skills are taught, and a number of writing skills are explored. The class will also focus on vocabulary skills, and students will explore a unit on college essay writing.

141 CP/English 12 - Phase 1 - Credit 1

Class Rank Value: 1.05

Senior 1 course will stress composition skills in the following areas: description, poetry, expository and creative writing. The literature program will include an in-depth study of some world writers and provide a survey of English literature. A research paper is required.

140 Hon/English 12 - Phase 0 - Credit 1

Class Rank Value: 1.10

The Senior 0 course will stress composition skills in the following areas: expository, narrative, persuasive, and descriptive writing. A full-length research paper is a course requirement. Literature consists of a survey of English fiction, poetry, drama, short stories, and the non-fiction of world writers such as Dumas, Shakespeare, and Wilde. Writing and literature will be correlated.

144 AP/English 12 - Credit 1

Class Rank Value: 1.15

Seniors only with permission of instructor; minimum of 89 average in Jr. Honors English

AP Literature and Composition is designed for seniors who wish to be challenged in their study of English and who intend to take the AP test for possible college credit. Summer reading is encouraged. This is a college-level lit course with a heavy emphasis on expository writing and in-depth analysis. *All students will be required to purchase their textbook and must take the Advanced Placement test in May. AP Exam fee is paid by Winslow High School.*

173 Introduction to Drama - (S) - Credit ½

Class Rank Value: 1.05

Sophomores, juniors and seniors only; Class size is limited.

The overall objective of this course is to provide a variety of exploratory dramatic experiences designed to acquaint the student with the nature of “the stage” and to foster an appreciation of the dramatic art. The course will contain the following: projection, general voice control, stage movement, gestures, blocking, set design, basic make-up techniques, dramatic theory, improvisation, play readings, script writing, vocal expression, oral interpretation, mime, and character analysis. *This course meets the fine arts requirement toward graduation.*

175 Creative Writing - (S) - Credit ½

Class Rank Value: 1.05

Juniors and seniors only or sophomores by permission of instructor; Class size is limited.

Creative writing is a half-year elective that is designed for students who want to develop writing skills in poetry, short story, and play writing. *This course meets the fine arts requirement toward graduation.*

176 Yearbook – Credit 1

Class Rank Value: 1.05

Juniors and seniors only; Class size limited to 20.

This class is a full-year elective for students who would like an authentic publishing experience. Using journalism, photography and graphic design, students will create a Winslow High School yearbook. They will also be actively involved in the business aspects of the process: selling advertisements, yearbooks, fundraising, and keeping financial records. *This course meets the fine arts requirement toward graduation.*

193 Speech/Oral Interpretation – (S) – Credit ½

Class Rank Value: 1.05

Juniors and seniors only; Class size is limited.

This semester course will focus on public speaking and the analysis of public speakers. Students will participate in projects involving persuasive advertising, technical speaking, interviewing, debating, skill teaching, and more. We will analyze speeches given by notable politicians, actors, etc. There will be an emphasis on persuasive speech, as students study the roots of classic rhetoric, and deliver their own presentations. A willingness to participate verbally is a **MUST** for this course. *This course meets the fine arts requirement toward graduation.*

101 English Language Learner Seminar – Credit 1

Class Rank Value: 1.00

English Language Learner (ELLs) only

This small group seminar provides ELLs with an opportunity to improve their English proficiency within each mode of communication. Students will build their speaking, listening, reading and writing proficiencies through a curriculum based on the WIDA Standards for English Language Learners. This seminar will assist students in achieving a higher level of English proficiency in their academic content classes, as well as within social communication.

118 Read 180 – Credit 1 – Pass/Fail course

Class Rank Value: 1.00

Read 180 is a comprehensive reading program designed to elevate Lexile scores. Students participating in this course receive instruction in whole group and small group settings. Individual reading, rBook instruction, and integrated topic software are the three elements of Read 180. Students with reading Lexiles below 1000 are recommended for this program.

HEALTH/WELLNESS

840 Community Based Learning – Credit 1

Class Rank Value: 1.00

Seniors only

This class will promote both personal and intellectual growth in students. It will help students to develop civic responsibility, work collaboratively with community members, classmates, other schools and teachers to meet real community needs. Community Based Learning will encompass several components. The students will have required class time to discuss needed services within our community and to prepare for the types of services they will be doing at different sites. Students may visit sites off campus during the school day. At these sites students will serve as educators, mentors, buddies, or tutors. Students may work with relief agencies, food pantries, do clerical work, visit nursing homes and day care centers, role play skits for elementary and middle school students, research issues, and work with community agencies in the area. This community based learning course will be an evolving course that changes as new needs in the community become apparent. Assessment for this course will include a portfolio, personal and site evaluation, special projects, and teacher evaluations.

841 Child Development & Child Care Aide – Credit 1

Class Rank Value: 1.00

This course will focus on the physical, social, emotional, and intellectual development of children from the pre-pregnancy stage to school age. This course will include studies of the male/female anatomy, pregnancy, childbirth, family planning, birth defects, child abuse, nutrition, history of child development, child psychology, teaching children, and a look at careers related to working with children. Students interested in education and childcare service careers are encouraged to participate. The curriculum will consist of actual work with nursery school children and elementary students by taking trips to the elementary school and accumulation of creative and aesthetic projects for children, lesson planning, and observations. Speakers and films will also be incorporated. Class size is limited.

902 Health 1 – (S) – Credit ½
Required for all freshmen

Class Rank Value: 1.00

Health 1 is a requirement for all 9th grade students. This course covers multiple health content areas including consumer health, environmental health, family life education, personal, mental and emotional health, prevention and control of disease and disorders, alcohol and tobacco use and abuse and nutrition. The class will participate in hands-on projects and interact with speakers from the community.

904 Health 2 – (S) – Credit ½

Class Rank Value: 1.00

Prerequisite: Health 1

Required for all sophomores

Health 2 is a requirement for all 10th grade students. The Health 2 class includes a discussion of in-depth current health issues including the concept of wellness, issues of race and gender, crime and violent behavior, maintaining a healthy weight and eating disorders, sexuality issues. including reproduction and teen pregnancy prevention with a focus on abstinence, contraception and STD's, the stages of life, and substance abuse and treatment. Students also have the opportunity to become first aid and CPR certified. This course provides an opportunity for students to talk candidly about issues that concern them. Students will debate, research, and present information. Speakers from the community will also be utilized.



FOREIGN LANGUAGES

The following courses each fulfill one year of a college foreign language requirement when they are studied at the secondary school level. An average of C or better or teacher recommendation is required for study beyond the first year. Most colleges require a minimum of two high school credits in one language. Because of global communication and technology, many are now recommending a three or four year sequence.

Students who have acquired some foreign language proficiency through family circumstances or courses studied elsewhere may request to be admitted to foreign language classes without following the regular sequence for their grade level. Prior to enrollment, however, students must meet with the appropriate foreign language teacher, who will arrange an inventory of their skills and abilities to help determine the best placement.

500 French 1 - Credit 1

Class Rank Value: 1.05

French 1 is an introductory course for students who have never studied the language or who have had less than one continuous year of study. The course provides a basic foundation in the skills of listening, speaking, reading and writing through a study of the words and the culture of the French people. The course helps the students to become aware of the origin, function and power of both English and French words while appreciating people and customs different from their own.

505 French 2 - Credit 1

Class Rank Value: 1.05

Prerequisite: French 1 or permission of instructor

French 2 is a course for students who have a firm foundation in the introductory material of the language. Students will review elementary grammar before beginning the study of more complex structures. Short selections of French culture will be read and discussed in French at the students' level. Through individual and class projects on the customs and the traditions of the French speaking world, students will become aware of both the differences and the similarities that exist among the people of the world.

(Please note that students leaving grade 8 may take either of the two courses listed above, depending upon length of time they have previously studied French and their teacher's recommendation.)

510 French 3 - Credit 1

Class Rank Value: 1.10

Prerequisite: French 2

French 3 is a course for students who wish to acquire further confidence in using the language by reviewing its structures and vocabulary as a basis for further reading, writing and discussing in the French language. Selections will be chosen from the French classics as well as contemporary fiction and non-fiction.

515 French 4 - Credit 1

Class Rank Value: 1.10

Prerequisite: French 3

French 4 is a course designed for students who wish to read and discuss novels, plays, and contemporary events. The five areas of language learning will continue to be explored on a more advanced level with emphasis on those areas required for the students' future plans. Through continued study of both the culture and the language itself, students will become aware of the power of words in the interdependence of the world community.

516 French 5 - Credit 1

Class Rank Value: 1.10

Prerequisite: French 4

French 5 will continue the emphasis of French 4 with a concentration in Twentieth Century Francophone Literature.

535 Spanish 1 - Credit 1

Class Rank Value: 1.05

Spanish 1 introduces the five key areas of language learning: speaking, listening, writing, reading and culture that are necessary for basic communication in Spanish. Also, students will gain understanding of the contemporary life and culture of Spanish speaking countries in the world.

540 Spanish 2 - Credit 1

Class Rank Value: 1.05

Prerequisite: Spanish 1

In Spanish 2, the student will review and build upon the basic skills developed in Spanish 1. Continued emphasis will be given to oral proficiency as the past, future and conditional tenses are introduced. Various speaking activities and projects will focus on culturally authentic activities, customs, and traditions. Creativity will be encouraged as students write and perform skits and role-plays.

545 Spanish 3 - Credit 1

Class Rank Value: 1.10

Prerequisite: Spanish 2

Spanish 3 will thoroughly review all previous grammar work; some advanced grammar work will also be done. The major emphasis, however, will be increasing proficiency in conversation, writing and reading. A wide variety of culturally authentic materials including short stories, song lyrics and tales will encourage increased comprehension skills. Time will also be spent on the rich contributions made by Spanish and Latin American artists, writers and contemporary as well as traditional musicians.

550 Spanish 4 - Credit 1

Class Rank Value: 1.10

Prerequisite: Spanish 3

In Spanish 4, students will gain advanced proficiency in the five basic areas of language study. Important Spanish novels and plays will be read and discussed in the target language. Also students will gain awareness of the cultural, political and economic importance of Latin America. They will be encouraged to discuss current events in the target language and attain a comfortable level of spoken proficiency.

555 Spanish 5 - Credit 1

Class Rank Value: 1.10

Prerequisite: Spanish 4

Spanish 5 is a course designed to have the student delve into Spanish & Latin American authors through poems, short stories and synoptic versions of literary masterpieces. In addition, advanced grammatical concepts will be taught and applied. The class will be conducted entirely in the target language as a literature course with a minor emphasis on grammar.

MATHEMATICS

321 Applied Mathematics 4 – Credit 1

Class Rank Value: 1.00

Prerequisite: Successful completion of Applied Math 3 (This is the fourth year of a four-year course)

This course is designed to provide an Algebra 2 background in mathematical skills. Algebra skills are taught as well as enrichment exercises from business mathematics, applied or technical mathematics, consumer mathematics, vocational mathematics, algebra and geometry. The primary focus is on the Algebra 2 skills of mathematics. Topics covered are statistics, systems of equations, inequalities, polynomials and factors, quadratic equations and functions and right triangle relationships.

326 Algebra 1 AB - Credit 2 (1 math, 1 elective)

Class Rank Value: 1.00

This class meets a full block everyday

This course provides the students with a background of Algebra while strengthening basic skills. The student will use the operations and properties of real numbers already developed to develop a further understanding of the language of algebra. A thorough knowledge of Algebra 1 is essential for students to take courses in Geometry and Algebra 2.

315 Algebra 1 - Credit 1

Class Rank Value: 1.05

The major topics of Algebra 1 include the real number system and its properties, linear equations and functions, linear inequalities, polynomials and factoring, radicals, and probability. Students are often

required to communicate mathematically and use cooperative learning. They are required to use higher order thinking skills as they apply concepts. The goal is for students to become independent learners and problem solvers. A thorough knowledge of Algebra 1 is required prior to taking Geometry and Algebra 2, the next two courses in this sequence. Exceptional Algebra 1 students will be recommended to take Advanced Geometry and/or Advanced Algebra 2.

319 Advanced Geometry - Credit 1

Class Rank Value: 1.10

Prerequisite: Algebra 1

The rigorous study of Geometry explores lines, angles, circles, and many other familiar and non-familiar concepts. This exploration will lead to a better understanding of our world as well as better knowledge of arithmetic and algebra. A strong emphasis is placed on developing the student's logic. An excellent background in Algebra I is not necessary but the student should have a basic understanding of Algebra. This course can lead to good mathematical preparation for vocational school or college.

320 Geometry - Credit 1

Class Rank Value: 1.05

Prerequisite: Algebra 1

The study of Geometry explores lines, angles, circles, and many other familiar and non-familiar concepts. This exploration will lead to a better understanding of our world as well as better knowledge of arithmetic and algebra. A strong emphasis is placed on developing the student's logic. An excellent background in Algebra 1 is not necessary but the student should have a basic understanding of Algebra. This course can lead to good mathematical preparation for vocational school or college.

316 Pre-Algebra – Credit 2 (1 math, 1 elective)

Class Rank Value: 1.00

This class meets a full block everyday

This course is designed to provide an algebra background in mathematical skills. Algebra skills are taught such as number sense, computation and problem-solving, as well as enrichment exercises from applied or technical mathematics, vocational mathematics, algebra and geometry. The primary focus is on the algebra skills of mathematics.

329 Advanced Algebra 2 - Credit 1

Class Rank Value: 1.10

Prerequisite: Algebra 1 and Advanced Geometry

Students who take Advanced Algebra 2 will encounter a brief but intensified review of the fundamental concepts of Algebra 1 and Geometry. This course is an extension of Arithmetic, Algebra 1, and Geometry.

Problem solving techniques using new topics such as: logarithms, sequence and series, and matrices reveal to the student the broad application that Algebra 1 and mathematics in general has for them in the world. This course is designed for those students who have been accelerated in math. Recommendations from Geometry/Algebra 1 instructors can also place a student in this top division of Algebra 2. A thorough knowledge of Algebra 2 is essential for courses in Advanced Math or Pre-Calculus.

330 Algebra 2 - Credit 1

Class Rank Value: 1.05

Prerequisite: Algebra 1

Algebra 2 covers these major concepts: equations and inequalities, quadratic and linear functions and graphs, systems of equations and inequalities, matrices, polynomials, radical expressions, and probability.

Students are expected to extend their Algebra 1 knowledge to a higher level, similar to that of a college algebra student. A major emphasis is placed on problem solving and applications. Students are often asked to work together in teams, but independent practice is also critical to success. A thorough knowledge of Algebra 2 is required prior to signing up for Pre-Calculus.

340 Advanced Mathematics - Credit 1

Class Rank Value: 1.00

Prerequisite: Algebra 2

Approximately one semester is dedicated to an in-depth study of trigonometry. This will prepare the student for the mathematics of physics or other applied mathematical areas, as well as college or vocational applications of Trigonometry. Approximately one semester is a study of advanced Algebra. This is an excellent course preparation for technical, vocational, or college mathematics.

364 Advanced Pre-Calculus – Credit 1

Class Rank Value: 1.10

Prerequisite: Advanced Algebra 2

This course is designed for students who have taken Advanced Algebra 2 and intend to study Calculus or AP Calculus in the year following this course. Topics include families of curves, functions, graphing, logarithmic and exponential functions, and trigonometry. *A graphing calculator is required.*

365 Pre-Calculus - Credit 1

Class Rank Value: 1.05

Prerequisite: Algebra 2

This course gives the student a strong background in Trigonometry and other Advanced Algebra concepts. It is designed for juniors or seniors who will take calculus the following year.

366 Calculus - Credit 1

Class Rank Value: 1.10

Prerequisite: Pre-Calculus or Advanced Pre-Calculus

This course offers an excellent introduction to Calculus while creating a solid foundation for those students who may wish to enroll in AP Calculus another year. Topics include a review of Pre-Calculus concepts, followed by limits, derivatives and their applications, and integrals and their applications. *A graphing calculator is required.*

367 AP/Calculus – Credit 1

Class Rank Value: 1.15

Prerequisite: Pre-Calculus and permission of instructor

This course follows the College Board syllabus for Advanced Placement Calculus AB. Topics include functions, limits, and differential and integral calculus and their applications. *A graphing calculator is required. All students will be required to purchase their textbook and must take the Advanced Placement test in May. AP Exam fee is paid by Winslow High School.* Students may receive college credit from most colleges and universities for successful completion of the course and the Advanced Placement exam.

369 Math Topics – Credit 1

Class Rank Value: 1.00

Prerequisite: Algebra 2 and a desire to explore math topics at a challenging level

This course covers a variety of math topics with an emphasis on problem solving. Topics 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, Area and Volumes. Also Probability, Exponents and Radicals, Lines, Angles, and Polygons, Complex Numbers, Arithmetic with Percent, Arithmetic with Literal Equations, Logarithms and Logarithmic Equations, Linear Coordinate Geometry, Functions, Trigonometry Mechanics, Algebraic Fractions with Factoring, Trigonometric Equations and Identities, Circles and Spheres, Conics and Arithmetic with Statistics.

362 College Algebra – Credit 1 Dual Credits (WHS & KVCC) Juniors/Seniors only; Class Rank Value: NA
Prerequisite: Algebra 2, satisfactory scores on the Accuplacer test

The emphasis of this course is on problem solving. This course unifies the traditional analytical methods of Algebra with the modern graphing technologies in order to solve problems modeled by a variety of functions such as linear, quadratic, absolute value, polynomial, exponential and logarithmic. The central theme is authentic applications from traditional disciplines such as the physical sciences and engineering as well as applications from business, economics, social sciences, life science, health science, sports and other areas of student interest. This course provides the foundation necessary for success in future studies of mathematics. See your guidance counselor if interested.



MUSIC

950 Band 1- (FR/SO) -Credit 1 Class Rank Value: 1.05
Prerequisite: Intermediate band background or equivalent instruction

951 Band 2 – (JR/SR) - Credit 1 Class Rank Value: 1.10

Students have an opportunity to learn music through active participation in the Concert and Marching Band. It will also provide the foundation study for those who wish a career in music. Instrumental skills and technical ability will be developed. Literature from the classical, romantic and contemporary periods will be played. Seniors will conduct the band to develop basic conduction patterns. Concerts will be presented as part of the curriculum. Students in the Concert Band can also be in the Jazz Band and Pep Band. The band will perform at all home football games and basketball games.

955 Chorus - Credit 1 Class Rank Value: 1.05

Chorus is open to all students who show an interest in singing and who have an ability for singing. Chorus is scheduled during the school day and is held each day. The activities include representing the school in many different ways, such as exchange concerts, singing for civic groups and clubs in the area. The chorus performs at the Christmas and Spring Concerts.

959 Music From Past to Present – (S) – Credit ½ Class Rank Value: 1.05

This musical survey class will follow the development of music from the Middle Ages to the present. We will listen to and study compositions from the masters of each era and learn what influenced them and their music. Through listening and history, we will explore the elements of music and trace the development of musical forms to what we use today.

960 Music Theory 1 - (S) - Credit ½

Class Rank Value: 1.05

Prerequisite: Permission of instructor

The music theory course is open to anyone who has an elementary knowledge of music, with the approval of the instructor. The subject matter will cover a variety of topics including the language of music, note reading and writing, the study of chords and music history. The course will concentrate on composition and ear training. Some stress will be placed on individual composition.

961 Music Theory 2 - (S) - Credit ½

Class Rank Value: 1.05

Prerequisite: Music Theory 1 or permission of instructor

Theory applications continued with a focus on musical composition.



PHYSICAL EDUCATION

901 Freshmen /900 Sophomores – Physical Education – Credit ½

Class Rank Value: N/A

All freshmen and sophomore students are required to take 1 credit of Physical Education

Emphasis is placed on physical fitness, fine and gross motor skill development, and individual team lifetime activities such as tennis, basketball, soccer, along with learning about a personal fitness plan that includes the weight room and Fitness Center. As many activities as possible are offered during each 1 or 2 week period.

In complying with the Maine Learning Results, students will be assessed in the three content areas:

1) Physical Fitness, 2) Motor Skills, 3) Personal and Social Interaction.

906 Fitness for Life – Credit 1

Class Rank Value: 1.00

(Elective) Juniors and seniors only

This course will take place in the new fitness center and the free weight training room. You will learn how to use all equipment, safety features and protocol in a workout environment. The student will learn how to set up a personal fitness plan that meets their individual needs and each student will be assessed on the evaluation of this plan. General topics will include strength training, flexibility, cardiovascular training, plyometrics and nutrition along with basic anatomy and physiology. This class will require a daily workout regime following the student's individualized workout. This course will not offer team or individual sports/activities.

SCIENCE

412 Everyday Science A – Credit ½ (S)

Class Rank Value: 1.00

For freshmen

413 Everyday Science B – Credit ½ (S)

Class Rank Value: 1.00

For freshmen

These two semester courses will cover everyday topics such as: chemistry of cooking, physics of sports, maintenance techniques for houses such as basic circuits, safety and efficiency methods and our relationship with planet earth.

414 Technological Design Part 1 – Credit ½ (S)

Class Rank Value: 1.05

Elective course for sophomores, juniors, or seniors (does not replace physical science and biology)

This is a largely activity based course that explores engineering scope, content and professional practices through practical applications. Teams of students will apply technology, science and mathematics concepts and skills to solve engineering design problems and to create innovative designs. This course can be taken concurrently with any science or mathematics course.

415 Technological Design Part 2 – Credit ½ (S)

Class Rank Value: 1.05

Elective course for sophomores, juniors, or seniors (does not replace physical science and biology)

This is a largely activity based course that explores engineering scope, content and professional practices through practical applications. The projects and topics covered will be different than ones covered in Technological Design Part 1. Through small engineering projects, students will reinforce science, technology and mathematics concepts and skills. Technological Design Part 1 is *not* a prerequisite for this course. This course can be taken concurrently with any science or mathematics course.

422 Human Biology – Credit ½ (S)

Class Rank Value: 1.00

For sophomores

This semester course will explore the human organism as a system and its individual cellular components and how these affect our everyday life.

423 The Genetic World – Credit ½ (S)

Class Rank Value: 1.00

For sophomores

This semester course will explore human genetics and biological technology as well as environmental awareness topics including biodiversity and global systems.

410 Hon/CP411 Physical Science - Credit 1

***Class Rank Value: see below

Physical Science is a course designed as a basic course that will develop skills in the following areas: metrics, lab observations and formula use. Topics covered will be: properties of matter, basic atomic structure, energy - its use and conservation, simple machines, laws of motion, electricity, magnetism, sound waves, interactions of matter, chemical reactions, light and technology as it relates to the environment and ecology, chemistry, organic chemistry, and nuclear chemistry.

420 Hon/CP421 Biology - Credit 1 ½

*** Class Rank Value: see below

Prerequisite: Physical Science or by permission

This course presents the nature and meaning of discoveries and principles of biology. Mastery of course content enables the student to understand his/her part in the scheme of life, how he/she effects life about him/her and is affected by that life. The course is rigorous, involving lectures, discussion, laboratory exercises and investigations, library research and practical application. Each student must do considerable reading and study. Subject areas include diversity of living things, patterns of life within organisms and between organisms, continuity of life in the biosphere, and man's relation to all of life.

***Class Rank Value: Honors: 1.10; Level 1: 1.05; Level 2: 1.00

429 AP/Biology – Credit 1 ½

Class Rank Value: 1.15

Designed primarily for seniors; admittance to class at teacher discretion;

Prerequisite B or better in Level 0/1 Chemistry and Level 0/1 Biology and permission of instructor.

The AP Biology course is designed to be the equivalent of a college introductory biology course. The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process. Three general areas are covered: molecules and cells, heredity and evolution, and organisms and populations. It is a fast-paced course and students should expect to spend a significant amount of time outside of class working on assignments. *All students will be required to purchase their textbook and must take the Advanced Placement test in May. AP Exam fee is paid by Winslow High School.*

430 Hon/CP431 Chemistry - Credit 1 ½

***Class Rank Value: see below

Prerequisite: Successful completion of Algebra 1, Physical Science, & Biology
(Or permission of instructor)

The organization and goals of Chemistry place emphasis on both theoretical and practical aspects. The course deals with the structure and composition of matter and the changes that matter undergoes. The laboratory work is quantitative in nature and therefore, requires a background in basic mathematical skills. Students are required to record all laboratory work. The course includes lectures, group work, problem solving, laboratory sessions and outside reading.

***Class Rank Value: Honors: 1.10; Level 1: 1.05; Level 2: 1.00

437 Bio-Organic Chemistry - Credit 1

Class Rank Value: 1.10

Prerequisite: Grade of C or better Level 0 or Level 1 Biology & Chemistry or permission of instructor

This course is designed primarily for the student planning a career in any health-related fields. However, even if a student is not planning to enter a health-related field, the course is worthwhile as it shows the role chemistry plays in everyday life.

The first semester deals with a review of general chemistry followed by an introduction to the various classes of organic compounds. Organic compounds studied are saturated hydrocarbons, unsaturated hydrocarbons, alcohols, phenols, ethers, aldehydes, ketones, carboxylic acids, amines, and amides. The second semester deals with the chemical basis of life. Topics covered are carbohydrates, lipids, proteins, enzymes, biochemical energy production, carbohydrate metabolism, lipid metabolism, and protein metabolism.

440 Honors Physics - Credit 1 ½

Class Rank Value: 1.10

Prerequisite: Successful completion of Algebra 2 and completion of 2 Science classes or permission of instructor.

This course is designed for students planning on selecting any science major in college including engineering, pre-med and computer science.

441 CP/Physics - Credit 1 ½

Class Rank Value: 1.05

Prerequisite: Successful completion of Algebra 1 and 2 years of science and enrollment in Geometry (or completion of Geometry)

This course is designed to provide students with the background necessary to complete a Physics course in college. A large emphasis is placed on study habits, improving mathematical ability through real world applications and basic mechanical theory. Subjects such as light, electricity and waves will also be included.

490 Advanced Physics

Class Rank Value: 1.15

Advanced Physics is offered as an independent study course. Taking the Honors Physics course before taking Advanced is suggested but they can be taken concurrently. *A student would be prepared to take the AP Physics B exam in May after completing this study. AP Exam fee is paid by Winslow High School.*



SOCIAL SCIENCES

Students are required to complete a total of three credits in the social sciences. The department requires World Geography for freshmen, Western Civilization for sophomores and United States History for juniors. Elective courses available to seniors are AP Economics, Psychology, and American Government/Law.

210 Hon/CP211/212 World Geography - Credit 1

Required for freshmen

***Class Rank Value: see below

World Geography explores the relationship between the physical environment and human activity. Content includes cultural, economic, and political geography as well as physical geography. Each unit of study focuses on a particular region of the world. History and current events are examined. As a process/skills based course, World Geography also includes specific instruction in content reading, expository writing, note taking, critical thinking, and analysis of statistics along with the construction and interpretation of maps, charts, and graphs. Internet research is also introduced.

220 Hon/CP221/222 Western Civilization - Credit 1

Required for sophomores - Prerequisite: World Geography

***Class Rank Value: see below

Western Civilization focuses on the birth of civilization and history of Europe from 5000 BC – 1900 AD. This course is designed chronologically to educate students with the historical knowledge of major European events, people, and themes. From this information, students will learn to recognize the relationships of certain events and people and their impact on future situations. Primary and secondary source documents, maps, artworks, videos, and literature, along with the selected textbook, are used in presenting content and in evaluating historical events and descriptions. In addition to subject content, students will also be working on reading comprehension, various note taking methods, test preparation strategies, and content essay writing. Whenever possible, this course draws connections between Western Civilization, U.S. History, and current events.

***Class Rank Value: Honors: 1.10; Level 1: 1.05; Level 2: 1.0

228 AP/European History – Credit 1

Class Rank Value: 1.15

Prerequisite: sophomores with permission of instructor

Advanced Placement European History gives students an overview of the intellectual, cultural, political, diplomatic, social, and economic history of western civilization with a primary emphasis on modern Europe. The course is designed to prepare students for the Advanced Placement European History Exam offered in May. Through primary and secondary source readings, presentations, lectures, discussions, and class activities, students will explore major historical eras in European history such as the ancient world; the Middle Ages; the Renaissance, Reformation, and the Wars of Religion; the Bourbon and Baroque Eras, and the Enlightenment; Revolution and the New European Order; Realism and Materialism; World War I and Europe in Crisis; and World War II and the Demise of Communism. *Course requirements include purchasing the textbook, the primary and secondary source readers, and the study guides. Students are also required to take the Advanced Placement Exam in May. AP Exam fee is paid by Winslow High School.* Students receive college credit from most colleges and universities for successful completion of this course and the Advanced Placement Examination.

229 AP/United States History - Credit 1

Class Rank Value: 1.15

Pre-requisite: juniors with permission of instructor

This course gives students an overview of the political, diplomatic, economic, social, and cultural history of America from ancient America through the present while preparing students for successful performance on the Advanced Placement United States History Exam offered in May. Students will read a major textbook, selected primary documents, and various secondary historiographic articles. Through readings, presentations, lectures, discussions, and class activities, students will explore major themes in American history such as colonization, the founding of a new nation, the forging of an American culture, the entrenchment of slavery, the coming of the Civil War, the meaning of Reconstruction, the development of the American West, the maturing of industrial society, the expansion of the nation-state, the rise of the United States as a global power, the limitations of American power, the growth of the liberal consensus, the resurgence of conservatism and the development of the new domestic and world order. Students will also examine the ways in which the marginalized and disaffected have struggled to ensure that America fulfills its promise. *Course requirements include purchasing the textbook, the primary and secondary source readers, and the study guides. Students are also required to take the Advanced Placement Exam in May. AP Exam fee is paid by Winslow High School.* Students receive college credit from most colleges and universities for successful completion of this course and the Advanced Placement Examination.

230 Hon/231CP/232 U.S. History - Credit 1

***Class Rank Value: see below

Required for juniors

Prerequisite: Western Civilization

Successful completion of U.S. History is required for graduation from Winslow High School. The course is offered to juniors, and may be taken at the honors, college prep, or general levels. Students will study a survey of U.S. History. The first semester will cover topics from the drafting of the United States Constitution through the Progressive era. The second semester will focus on the periods from the Age of Imperialism through the administration of Bill Clinton.

***Class Rank Value: Honors: 1.10; Level 1: 1.05; Level 2: 1.00

240 Psychology – Credit 1

Class Rank Value: 1.05

Seniors only Prerequisite: Algebra 1 and Biology

This course is a survey course, which introduces students to the scientific study of the human experience. During the first semester, students focus on sensation and perception; consciousness; learning and memory; thinking, language, and intelligence; and motivation and emotion. Emphasis shifts in the second semester to lifespan development; gender and sexuality; personality; social psychology; stress, health, and coping; psychological disorders and therapies; and industrial/organizational psychology. Students perform interactive computer lab simulations and review related topics using links to the Internet.

242 American Government & Law– Credit 1

Class Rank Value: 1.05

Seniors and juniors only

American Government & Law is a full-year senior elective that focuses on the political and legal institutions in the United States. Units of study include: The Constitution, Congress, The Federal Courts, The Presidency, Voting and Elections, Political Parties, Criminal Law, and Civil Law. Students will be involved in several projects and activities including mock elections, mock trials, Supreme Court simulations, Congressional simulations, and much more. All students are encouraged to become more politically active and therefore better prepared for the responsibilities of American citizenship.

247 AP/Economics - Credit 1

Class Rank Value: 1.15

Prerequisites: **Seniors only**. Above satisfactory performance in either U.S. History 230 or Advanced Placement U.S. History 229, and Algebra 2, Pre-Calculus 365, and permission of instructor.

This course is a full-year course that introduces students to fundamental economic concepts and simultaneously prepares students for successful performance on the AP Economics Exam offered in May. During the first semester, students focus on microeconomic issues including supply and demand; markets and prices; types of firms and their costs and profits; market power; and the role of government in the economy. Course content shifts to macroeconomics in the second semester. Here, students examine Gross Domestic Product accounting; inflation; unemployment; government spending; money and banking; monetary policy and fiscal policy; supply-side policy; international trade; and international currency and exchange markets. *Course requirements include purchasing both the textbook and the study guides and taking the Advanced Placement Exam in May. AP Exam fee is paid by Winslow High School.*

248 Principles of Economics – Credit 1

Class Rank Value: 1.05

Juniors and seniors only – Algebra 1

Principles of Economics covers microeconomics and macroeconomics. Microeconomics is the study of choices made by consumers, businesses, and government and how these choices affect the markets for goods

and services. Macroeconomics is the study of the nation's economy as a whole. Important topics are regularly discussed in newspapers and on television, including inflation, unemployment, the budget deficit, and the trade deficit.

842 Life Topics - (S) - Credit ½

Class Rank Value: 1.00

Prerequisite: Career Prep; juniors and seniors only

This course is designed to provide a review for students in some basic living skills. It is a multi-disciplinary approach using community and school resources. Students will take away from class a portfolio of activities and materials as well as a list of resources that could be used by them, as they become independent householders. Some of the topics covered will be relationships, family life, consumerism, money management, career preparation and legal services.

SPECIAL SERVICES

Winslow High School provides support learning centers, a Life Skills Program and a Day Treatment Program for students identified through the IEP process.

JMG/Jobs for Maine's Graduates

About JMG... Jobs for Maine's Graduates began in Maine in 1988 and continues to effect positive changes in the lives of thousands of Maine high school and middle school students by providing a year-round, multiyear school-to-life transition system. In 1993, JMG became an independent private non-profit corporation supported by public and private sector contributions. There are presently 61 JMG programs in 54 schools statewide, serving more than 3,000 students.

066 JMG Course – Credit 1

Class Rank Value: 1.00

Multi-Year Program Description

JMG's Multi-Year program gives 9th – 11th grade students a chance to better themselves in a variety of ways. It is the goal of the Multi-Year program to make sure that all students are passing their core curriculum courses and that those students actively involve themselves in community service, social events, and career and leadership development.

Acceptance Criteria: Candidates must be willing and able to participate in every phase of the program and not have extreme behavioral issues. Other criteria include:

- School staff recommendation
- Qualified by in-school advisory board
- Interview and selection by JMG Specialist
- Must Want, Need and be able to Benefit
- Clear potential to succeed in school environment
- Not being served by articulated programming, advocacy, etc.

MID-MAINE TECHNICAL CENTER

2009-2010

3 Brooklyn Avenue
Waterville, ME 04901

Mid-Maine Technical Center is a career/technical center located on the campus of Waterville High School. Mid-Maine TECH offers area high school students twenty-four technical courses to area high school students. All courses have been approved for 3 high school graduation credits.

Mid-Maine Technical Center courses are offered in two blocks, morning and afternoon. While specific arrival/departure times vary slightly from school to school, the general schedule is as follows:

AM Block: 8:25 – 10:45 PM Block: 11:20 – 1:35

Participating high schools include: Winslow, Averill, Lawrence, Messalonskee, and Waterville High Schools. Students attend Mid-Maine Technical Center as part of their regular academic schedule, while taking regular academic courses at their sending school. Bus transportation to and from Mid-Maine TECH is provided by each school district. Enrollment in Mid-Maine Technical Center courses is arranged through the high school Guidance Department. There is no cost to the student for TECH Center courses.

Integrated Credits

High school applied academic credits may be earned for high school graduation by completing the following courses at Mid-Maine TECH. **Prior written approval from the student's high school guidance counselor must be obtained before seeking academic credit with this option.** Students must meet both the academic requirements and expectations of their technical program to receive 2 credits for their technical program and one academic credit for either math, science or fine arts. The following programs or courses have been approved for integrated academic credit:

Applied Math Credit: Automotive Systems, Electrical Technology, Construction Technology, Precision Machining, Restaurant Operations.

Applied Science Credit: Medical Careers

Applied Fine Arts Credit: Early Childhood Education, Finish Carpentry, Graphic Communications.

College Credits

Formal Dual College Credit agreements with specific colleges provide our students with a structured process where they may earn college credits by completing their program at Mid-Maine TECH. Each Dual College Credit agreement establishes eligibility standards, specific requirements, and a final grade that the students must attain in their Mid-Maine TECH program to earn college credit. Students need an 86 grade average or better to participate in the Dual Credit College option at Mid-Maine TECH.

Accreditation

All courses at Mid-Maine Technical Center are accredited by the New England Association of Schools & Colleges and have achieved National Program Certification. Courses are distributed among 4 Technical Teams: Construction, Service, Mechanical, and Technology.

All MMTC Classes Rank Value: 1.00

CTE ACADEMY

989 CTE Academy/ AM 1.5 Credits

This new program will focus on meeting the needs of 10th and 11th grade students that are interested in enrolling in a technical program during their junior or senior year. The CTE Academy will be offered primarily to underclass students to provide them with instruction in Career and Technical Education preparation for future enrollment in one of the Mid-Maine TECH's National or State Certified Programs. Many of the skill standards included in the CTE Academy curriculum are the same introductory skills taught in our twelve CTE Program areas, creating a sequential curriculum to enhance student success. The intent of this program is to provide students an applied instructional setting to learn technical concepts and the educational and career opportunities available through Mid-Maine TECH.

CONSTRUCTION TEAM

Construction Technology

Students develop the knowledge, skills, and applied learning experience to build a home. Students follow a nationally certified curriculum endorsed by CONTREN. Learn all aspects of the residential construction business.

National Program Certification: National Center for Construction Education & Research (NCCER)

Student Certification: CONTREN Carpentry Level 1 & 2 & Core Curriculum, 10 hr. OSHA Card

Integrated Credit: Math, Fine Arts

Dual Enrollment: Eastern Maine Community College (pending)

991 CTE Residential Construction/AM 3 credits

Blue Print Reading
Frame Interior/Exterior Walls
Roof Shingling
Install Insulation
Install Interior/Exterior Finish
Painting & Staining/Urethaning

992 CTE Finish Carpentry/PM 3 credits

Estimation of Materials
Prepare Building Site
Install Roof Components
Install Windows & Doors
Install Interior/Exterior Finish
Basic Construction Business Management

Electrical Technology

The Electrical Technology program follows a nationally certified curriculum endorsed by CONTREN. This multifaceted program teaches the basics of electricity as well as advanced electrical technology. This program prepares the student for success in such career and post secondary educational fields as: residential or commercial electrician, and electrical engineering.

National Program Certification: National Center for Construction Education & Research (NCCER)

Student Certification: Maine Journeyman 576 hour coursework, Contren Electrical Level 1, Core Curriculum, & Maine Electrical Helper's License.

Integrated Credit: Math

Dual Enrollment: Kennebec Valley Community College: ETL – 117, Electrical Lab I (2 credits) and ETL – 121 Electrical Wiring Practices (5 credits)

997 CTE Electrical 1/AM 3 credits

Electrical Construction Trade
Wire Electrical Circuits
Test Circuits with Meters
Workshop Safety & Procedures

998 CTE Electrical 2/PM 3 credits

Electric Motor Controls
Commercial Wiring Practices
Three-Phase Technology
Motor Theory

TECHNOLOGY TEAM**Computer Aided Drafting**

The Computer Aided Drafting program is a comprehensive, project-based program that will prepare students for work and post-secondary education in Architecture, Engineering, and other occupations which utilize drafting skills. The curriculum, using Chief Architect software, meets national standards and helps students master the fundamentals of the design and drawing process.

National Program Certification: American Design Drafting Association

Student Certification: Architectural Drafter Certification, Mechanical Drafter, Auto Desk Design Academy

Dual Enrollment: EMCC – CAD 101 – Intro to CAD (3 credits)

965 CTE Arch. Design & Drawing/AM 3 credits

Architectural Standards
Fundamental of Architectural Technology
Construction Materials & Methods

970 CTE Tech. Design & Drawing/PM 3 credits

Problem Identification & Solving
Technical Drawing
3-D Graphic Expression
Mechanical Fundamentals

Computer Technology

Students learn how to build, upgrade, and service PC computers, and set up and maintain a local area computer network.

National Program Certification: CompTIA A+ and Network+ Certification, Apple Certified Mac Technician, IT Essentials, IT Technician Designation

Dual Enrollment: Kennebec Valley Community College: ETC-110, Computer Operating Systems (3 credits)

980 CTE PC Servicing/AM 3 credits

Install Computer Hardware
Configure Computer
Perform Preventative Maintenance
Troubleshoot the PC
Windows Operating Systems

981 CTE Apple Technician & Intro to Networking/PM 3 credits

Install Apple Hardware
Install Apple Software
Perform Preventive Maintenance
Repairing MLTI Apple Mac Books

Graphic Communications

Students use computer desktop publishing programs to compose images for offset and screen process printing reproduction. Also, students learn screen process printing.

National Program Certification: Print Ed

Student Certification: PrintEd Introduction to Graphic Communications, PrintEd Press Operations, & Print Ed Digital File Prep

Integrated Credit Available: Fine Arts

Dual Enrollment: Central Maine Community College: GAT-100, Intro to Printing (2 credits) & GAT-151, Screen Printing (2 credits)

977 CTE Print Design & Production/AM 3 credits

Adobe/Design Premium Software
Computerized Page Layout
Digital Operations & Scanning Operations
Design & Color Theory

978 CTE Web Design & Animation/PM 3 credits

Finishing Operations
Production Printing
Digital Color Printing
Screen-printing Operations

SERVICE TEAM

Culinary Arts

Students gain skills and knowledge of food preparation for a career in commercial or institutional food service. Students cook for and operate an on-site café and catering service.

National Program Certification: American Culinary Federation

Student Certification: Serv-Safe Sanitation, ACF Secondary Graduate

Integrated Credit Available: Math (PM only)

Dual Enrollment: EMCC – CUL 131 – Culinary Sanitation & Theory (3 Credits)

993 CTE Food Preparation/AM 3 credits

Safety & Sanitation

Prepare Soups & Sauces

Prepare Baked Goods

Prepare Hot Food Recipes & Techniques

Prepare Cold Food Recipes & Techniques

994 CTE Restaurant Operations/ PM 3 credits

Safety & Sanitation

Identify Controllable Expenses

Customer Service

Plan Menus

Hot & Cold Food Preparations

Early Childhood Occupations

Students learn to provide safe and appropriate care and education to children under the age of five. Students operate a community playgroup and nursery school program on site.

Program Certification: National Association for the Education of Young Children

Student Certification: Emergency First Aid & CPR, Register with Maine Roads to Qualify

Dual Enrollment: KVCC – ECE 131 – Intro to Early Childhood Ed (3 credits)

966 CTE Child Care/AM 3 credits

Infant & Toddler Care

Disease Prevention

Promote Nutrition

Perform CPR & First Aid

Child Care

967 CTE Early Childhood Ed/PM 3 credits

Perform CPR & First Aid

Guide & Discipline Children

Plan Preschool Operations

Provide Creative Experiences

Promote Social & Emotional Development

Plan & Implement Mid-Maine TECH Preschool

Emergency Services

Students develop the knowledge and skills necessary to pursue careers in Emergency Services, Firefighting, and Law Enforcement. Students will follow national and state curriculum guidelines based on EMT-Basic and Firefighter I programs.

Program Certification: Maine EMS & Emergency Medical Technician, Maine Fire Training & Education, Firefighter I certification.

Student Certification: Emergency Medical Technician – Basic (AM only), Emergency First Aid & CPR (AM & PM), Firefighter I Modules 1- 10 (PM only).

Dual Enrollment: Kennebec Valley Community College: EMS-111, Basic EMT (5 credits), Eastern Maine Community College: FTE-L1, Firefighting I (3 credits)

983 CTE Emergency Medical Tech Basic/AM 3 credits

First Responder/CPR Certification

Patient Assessment/Vital Signs

990 CTE Firefighter 1/ PM 3 credits

Fire Science & Behavior

Search & Rescue Operations

Human Anatomy & Physiology
Respiratory/Cardiovascular
Emergency Communication

Emergency Responder
Arson & Forensic Investigation
Structural Fire Attack
Department Organization/Structure

Health Occupations

Students learn the skills and acquire the training necessary to care for people who are ill or disabled. The Nurse Assisting course prepares students to take the State Certified Nurse Assistant Exam.

Program Certification: Maine Certified Nursing Assistant

Student Certification: Maine Certified Nursing Assistant, Emergency First Aid & CPR

Integrated Credit Available: Science

Dual Enrollment: CMCC: MET-111, Medical Terminology (3 credits)

973 CTE Nurse Assisting (CNA)/AM 3 credits

974 CTE Nurse Assisting (CNA)/ PM 3 credits

Basic Medical Asepsis
Vital Signs - Pulse & Respiration
Patient Care Skills
Nutritional Needs & Diet
First Aid & CPR
Medical Terminology
Response to Basic Emergencies

MECHANICAL TEAM

Auto Body Repair

Students learn skills to repair collision-damaged vehicles to factory specifications. Topics include: collision repair, frame repair, welding, and painting.

National Program Certification: National Automotive Technician's Education Foundation NATEF

Student Certification: NATEF Refinishing, NATEF Non-Structural

985 CTE Collision Repair/AM 3 credits

Fiberglass/Plastic Panel Repair & Replacement
Welding (MIG)
Frame Repair
Glass & Door Service

986 CTE Auto Refinishing/PM 3 credits

Surface Preparation
Spray Equipment
Mix & Apply Primer
Auto Reconditioning

Automotive Technology

Students use the latest technology to diagnose and repair automobile problems from automotive service to four-wheel alignment.

National Program Certification: National Automotive Technician's Education Foundation – NATEF

Student Certification: Maine State Inspection License, - NATEF, Brakes, Suspension & Steering, Engine Performance, Electrical Systems

Integrated Credit Available: Math

Dual Enrollment: Central Maine Community College: AUT-110 Brakes (2 credits) and AUT-120, Steering, Suspension & Alignment (2 credits)

987 CTE Automotive Services/AM 3 credits

Perform Scheduled Maintenance
Brake Systems
Electrical Fundamentals

988 CTE Automotive Systems/PM 3 credits

Engine Mechanical Functions
Electrical Fundamentals
Computer Control Systems

Steering & Suspension Systems
Fuel & Exhaust Systems

Emission Systems
Fuel Systems

Precision Machining

Students learn how to manufacture metal parts using precision machining technology and computer numerically controlled machines. Instruction will also be provided for AC/DC, MIG & TIG welding.

National Program Certification: National Institute for Metalworking Skills – NIMS

Student Certification: NIMS Machining Level I: Turning Between Centers, Turning-Chucking, Milling, Surface Grinding, Drill Press, Job Planning-Bench Work-Layout & Measurement, Materials-Safety

Integrated Credit Available: Math

Dual Enrollment: Central Maine Community College: MTT-111, Intro to Lathes (2 credits) and MTT-112, Intro to Milling (2 credits) & Kennebec Valley Community College: PMT-101, Fundamentals of Precision Machining Technology (4 credits)

975 CTE Machine Tool/ AM 3 credits

Perform Precision Measuring
Operate Drill Press
Operate Lathe
Operate Band Saw
Operate Milling Machine

976 CTE Machinist Operations/PM 3 credits

Perform Part Inspection
Operate Milling Machine
Operate Lathe
TIG/ARC/MIG Welding
Operate Surface Grinder

