

# **WINSLOW HIGH SCHOOL PROGRAM OF STUDIES 2011 - 2012**

**(Revised 09/07/2011)**



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

# **WINSLOW HIGH SCHOOL**

**AOS 92**

**20 Danielson Street**

**Winslow, Maine 04901**

**Main Office (207) 872-1990**

**Main Office FAX (207) 859-2450**

**School Website: [www.winslowk12.org](http://www.winslowk12.org)**

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**Assistant Principal: Terry D. Atwood**

**Athletic Director: Carrie M. Larrabee**

**Guidance Director: Vicki A. Lindquist**

**School Counselor: Thomas J. McNeil**

**Guidance Office (207) 859-2437**

**Guidance FAX (207) 859-2480**

## **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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# **GUIDANCE DEPARTMENT**

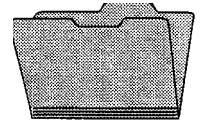
The Guidance Office is available to all students, parents, and teachers to assist in planning academic schedules, career paths, post-secondary education, and dealing with issues of a more personal nature. Trained counselors are available by appointment and on a walk-in basis when possible.

Counselors consult with and make referrals to out-of school agencies. They work closely with the administration, teaching staff, and parents on behalf of the students.

Students will see their counselors several times during the year whether in groups, classrooms or individually. During their high school career, students will take group assessments such as PSAT's, SAT's and Career Surveys and Interest Inventories.

## **ACADEMIC CHANGES IN STUDENT SCHEDULES**

Students must see their counselors prior to the first day of school to make changes in their schedules. Teacher recommendations for leveling are honored. Any variation requires consultation with the counselor and parent signature. Add/Drop changes are only teacher initiated after teacher consultation with parents. Subjects dropped after the first four weeks will be listed as withdrawal. There is a one week add/drop period when school begins. Subjects dropped after the first ranking periods of the academic term are listed as withdraw/fail or withdraw/pass. Conferences with counselors are welcomed at anytime. Please make an appointment.



## **REGISTRATIONS AND WITHDRAWALS**

A new student upon entering school should report to the Guidance Office to fill out registration forms. He/she should bring a copy of birth certificate, copy of immunizations, proof of residence, and his/her records from the school previously attended. The student, along with his counselor, will select a satisfactory schedule which will supply the amount of credits needed. He/she will be assigned to a homeroom and classes. A student wishing to withdraw from school should go to the Guidance Office to ask for a withdrawal form and fill in all information called for. He/she should then return all books and equipment to his/her teachers. When all material has been accounted for and all records in order, the necessary form and records will be mailed to the next school.

## **STUDENT RECORDS**

Only the following persons are authorized to inspect and view student records at Winslow High School: Superintendent, Principal, Assistant Principal, Guidance Staff, Teaching Staff, School Nurse, School Physician, Guidance Secretary, Registrar, Special Education Secretary, and Principal's Secretary, as well as the individual student or their guardian who wants to see their individual student record.

Individual records are to be inspected or studied only in the Guidance Office. The Principal and Guidance Staff members are the only individuals who may remove student records from the Guidance Office.

Whenever records are viewed by other individuals who have secured parental or student permission, the file use record form must be signed

## **MID-MAINE TECHNICAL CENTER INFORMATION**

Mid-Maine Technical Center is where the vocational program is housed. This is located at Waterville High School.

Winslow High School sends students to this program. There are two groups of vocational students who attend.

A.M. block from 8:25 to 10:45

P.M. block from 11:20 to 1:35

Transportation is provided for these students by a Winslow School Department bus. This vocational bus takes Winslow students to MMTC and brings them back to Winslow High School.

## **PHYSICAL EDUCATION REQUIREMENT AND MEDICAL CONDITIONS**

Maine state law requires that every high school student complete a full credit in physical education. The Maine Learning Results also address the need for students to meet certain standards in this area. Usually, this requirement is fulfilled by the end of the student's sophomore year. However, there may be extenuating circumstances in which a student is not able to participate in a physical education class.

If the student cannot participate because of a medical condition, including an injury, the student needs to obtain a signed note from the examining physician. The note should be obtained as soon as possible after the condition is identified and should clearly state the nature of the medical condition, its anticipated duration, and the level to which activities are to be restricted. It is the student's responsibility to deliver this doctor's note to the school nurse, who will copy the note for the Guidance Department and the appropriate P.E. teacher.

Students do not receive credit for being medically excused. Credit will only be awarded when a student has satisfied actual classroom requirements or completed an acceptable alternative assessment to the teacher's satisfaction. If the medical condition warrants that no alternative assessment can be completed during a specific school year, then the student will be required to obtain credit the following year.

## UNWEIGHTED GRADING SYSTEM

<u>Numerical</u>	<u>Letter</u>	<u>Scale</u>
98 – 100	A+	4.33
95 – 97	A	4.00
92 – 94	A -	3.67
89 – 91	B+	3.33
86 – 88	B	3.00
83 – 85	B-	2.67
80 – 82	C+	2.33
77 – 79	C	2.00
74 – 76	C-	1.67
71 – 73	D+	1.33
68 – 70	D	1.00
65 – 67	D-	0 .67
64 and below	F	0
WD	during 1 <sup>st</sup> four weeks	
WP		
WF		

A student having an unexcused absence during mid-year or final exams will receive a grade of zero (0%).

### GRADE POINT AVERAGE

The GPA (cumulative), which is calculated with unweighted grades, is reported on student transcripts. This is an average of all final course grades with the following exceptions: college courses and any courses taken on a Pass/Fail basis.

### MID-TERM PROGRESS REPORTS

Mid-Term Progress Reports are issued in the middle week of each ranking period to inform parent/guardians of academic progress. *Students are responsible to give their Progress Reports to their parents/guardians.*

### REPORT CARDS

Report cards are issued four times a school year. These are sent home with students except for the final report card which is mailed home within two weeks after grades close.

### HONOR ROLL/HONORABLE MENTION

The Honor Roll is within reach of all students regardless of the course they may be pursuing. Highest Honors may be achieved by a student who has received all A's for a quarter. Honors may be achieved by a student who received all A's and B's or all B's for a quarter. Honorable Mention may be achieved by a student who have only one C, with at least one A to offset the one C for a quarter.

## **CLASS RANK**

Winslow High School uses a weighted system for calculating class rank. The weighting factor is determined by course difficulty: AP is factored at 1.15; Honors are factored at 1.10; College Prep at 1.05; all other courses is factored at 1.00. The weighting factor is multiplied with the final course grade as expressed on our 4.33 grading scale. Students are then placed in the order of their new weighted average.

## **WINSLOW HIGH SCHOOL ACTIVITIES**

### **Athletic Teams:**

- Baseball
- Basketball – Girls/Boys
- Bowling – Club only
- Cheerleading – fall and winter
- Cross Country – Coed
- Field Hockey
- Football
- Golf – Coed
- Hockey – Girls/Boys
- Indoor/Outdoor Track – Coed
- Soccer – Girls/Boys
- Softball
- Swimming – Girls/Boys
- Tennis – Girls/Boys
- Wrestling – Coed

### **Honor Programs:**

- All State Band, Orchestra and Chorus – Allows musicians from every school in the state to audition to be part of these select musical groups
- KV Band and Chorus – Allows musicians to audition to be part of the group made up of representatives from 20 schools in the Kennebec Valley Region
- National Honor Society – Recognition for outstanding students on the basis of scholarship, service, leadership and character
- Renaissance Board – Students and teachers honor people in the school who have done an outstanding job in a variety of areas, including academics, service and character

### **Social Activities:**

Dances – regularly scheduled including Homecoming, Sadie Hawkins and the Prom

### **Other Activities:**

- Art Club – Students meet weekly
- Boy/Girls State – Selected juniors learn about state government
- Chorus – Students participate in class and perform for schools
- Civil Rights Team – Students work together to promote tolerance
- Concert Band – Various performances
- Drama – This includes the One Act Play, Musical, and Spring Play
- Jazz Band – Various performances
- Math Team – Students with outstanding mathematical ability compete statewide
- Service Club – Students working to help the school and community
- Student Government – Students elected to represent student body in making recommendations for changes

**Students can begin new clubs with participation from a faculty advisor**

## COURSE SELECTION

The choices of course sequence and subjects for each year are an 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.
3. The counselors will review the course selections with each student. (Incoming freshmen and juniors will include parents.) 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. Students will bring home registration forms for parental discussion and for signed approval. These forms are to be returned to your Homeroom advisor 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 courses per semester. 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.**

**GRADUATION REQUIREMENTS**  
(Revised 2011-2012 School Year)

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

**MINIMUM COURSE LOAD: 6 courses per semester for Grades 9, 10, 11 and 12**  
**A total of 22 credits are required for graduation which must include the following:**

English	4 credits
Social Sciences (Wld Geo., W.Civ., US History)	3 credits
Mathematics	3 credits
*Science	2.5 credits
Health Education	.5 credit
**Fine Arts	1 credit
Physical Education	1 credit
Career Prep	.5 credit
***Computer proficiency	See below***
Electives	Adding up to meet total credit requirements

\*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 & Newsletter Publication, Art, Band, Chorus, Creative Writing, and Intro to Drama, Speech/Oral Interpretation, MMTC Digital Graphics, Finish Carpentry, and Precision Machining.

\*\*\*Each student must demonstrate computer proficiency, either through completion of a designated course or by successfully passing a computer proficiency test.

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.



**DESCRIPTION OF COURSE OFFERINGS**  
**At Winslow High School**

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

**ART**

**864 Studio Art Explorations (SAE) – Credit 1**

Class Rank Value: 1.05

Prerequisite: None

Students in *Studio Art Explorations* work with a variety of media that is designed to guide their growth as visual thinkers. By exploring the areas of drawing, painting, printmaking, sculpture, art history and aesthetics, students will learn to think critically and expressively while gaining a working knowledge of the *Elements of Art*. (*This course meets the fine arts requirement toward graduation.*)

**865 Painting & Design – (S) - Credit ½**

Class Rank Value: 1.05

Prerequisite: SAE

Students will investigate a variety of 2-dimensional media to increase their visual literacy. Studio projects will include drawing, painting, printmaking and other non-traditional materials. Students will explore specific artists and movements, along with the technological and cultural influences that impact the visual world around us. Students will expand their skill in problem solving, critical thinking, and ability to creatively express their ideas and visions. (*This course counts toward the fine arts requirement for graduation.*)

**866 Clay and Sculpture – (S) - Credit ½**

Class Rank Value: 1.05

Prerequisite: SAE

Students will investigate a variety of 3-dimensional media to increase their visual literacy. The dynamics of space and form will be explored with studio projects in clay, plaster, wire, metal, found objects and other nontraditional materials. Students will explore specific artists and movements, along with the technological and cultural influences that impact the visual world around us. Students will expand their skill in problem solving, critical thinking, and ability to creatively express their ideas and visions. (*This course counts toward the fine arts requirement for graduation.*)

**867 Portfolio – Credit 1**

Class Rank Value: 1.10

Prerequisite: SAE, permission of the instructor  
(Recommended for juniors and seniors)

This course is designed to address the interests and needs of students contemplating post-secondary study and/or a career in the visual arts. Portfolio development and presentation of artwork are emphasized. Portfolio students will work with a broad range of media designed to guide their growth as visual thinkers. Students will explore specific artists and movements, along with the technological and cultural influences that impact the visual world around us. This is in a studio environment in which students work independently while sharing ideas, methods and opinions will be fostered. (*This course meets the fine arts requirement toward graduation.*)

**868 AP/Art History – Credit 1**

Class Rank Value: 1.15

Prerequisite: Juniors and seniors with teacher input

This course is designed to give students an overview of the history of art. The class begins with the Ancient World and continues into the 21<sup>st</sup> Century. This includes an examination of the political, technological, economic and cultural forces that shape the art work of major historical eras. Although the focus is on the European tradition, students will also examine the art of Asia, the Americas and Africa. Course work will consist of lectures, presentations, readings, writing and hands-on art activities. *Students will be required to purchase their course books and are encouraged to take the AP exam in May. Students are responsible for the AP exam fee.* Students receive college credit from most colleges and universities for successful completion of this course and the AP Exam. (*This course meets the fine arts requirement toward graduation.*)

**BUSINESS EDUCATION/CAREER PREPARATION****626 Career Prep –(S) - Credit ½**

Class Rank Value: 1.05

Required for all sophomores

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.

**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. Counts as 4<sup>th</sup> year or 3<sup>rd</sup> year credit of math if needed. (*This course meets the computer proficiency requirement toward graduation.*)

**634 Accounting 2 – Credit 1**

Class Rank Value: 1.05

Prerequisite: Accounting 1

Accounting 2 continues where Accounting 1 leaves off. Offers much more detail into the concepts of accounting in the real world.

## 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.*

*You may sign up for one or both semesters.*

### **730 Computer Aided Drafting – (S) - Credit ½**

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. **\*Students will begin with hand drawings, move into 2D and finish with 3D drawings. \*(Revised course description as of 02/11/2011).**

This course will be advantageous for students who are thinking of pursuing a career in the technologies or engineering fields. 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 is a good basic CAD course and also meets the computer proficiency requirement.)*

### **745 Pre-Engineering Drawing – (S) - Credit ½**

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. **\*Students will begin with hand drawings, move into 2D and finish with 3D drawings. \*(Revised course description as of 02/11/2011).** 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

#### **112 English 9 - Credit 1**

Class Rank Value: 1.00

This freshman course provides a building year of introductory expository writing skills, relevant grammar skills, vocabulary, and literary analysis. Written expression is emphasized.

#### **111 CP/English 9 - Credit 1**

Class Rank Value: 1.05

This freshman course emphasizes writing, grammar, and vocabulary skills relating to the study and analysis of literature. Mythology, novels, short stories, plays, and non-fiction works make up the foundation of this course.

#### **110 Hon/English 9 - Credit 1**

Class Rank Value: 1.10

The freshman course focuses on writing, grammar, and vocabulary, especially as it relates to class texts and literature in general. Mythology, novels, short stories, plays, and non-fiction texts will be analyzed and synthesized through expository essays and prompts.

### SOPHOMORE ENGLISH

#### **122 English 10 - Credit 1**

Class Rank Value: 1.00

The sophomore course focuses on reading, writing, grammar, and vocabulary. A survey of world literature that focuses on thematic analysis, character discussions, themes, and other literary elements makes up the majority of the course work. This class focuses on developing analytic skills through writing about the elements discussed throughout the year.

#### **121 CP/English 10 - Credit 1**

Class Rank Value: 1.05

The sophomore course builds written, grammatical, reading, and vocabulary skills. Novels, ancient texts, plays, short stories, and non-fiction works are analyzed primarily through classroom discussions, analytic prompts, and essays. Focus on literary elements and devices found throughout the texts serves as a foundation to build analytic and expressive and spoken skills.

#### **120 Hon/English 10 - Credit 1**

Class Rank Value: 1.10

The sophomore course builds the analytical and expressive skills of students. Through examining a wide sample of world literature (short stories, novels, plays, non-fiction, ancient texts), students will develop skills that facilitate written expression through the form of expository prompts and essays. A focus on analyzing literary devices and elements will connect the class texts to the greater human experience

## **JUNIOR ENGLISH**

### **132 English 11 - Credit 1**

Class Rank Value: 1.00

The junior course includes a focus on vocabulary, grammar, and composition. A survey of American literature with an 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 - Credit 1**

Class Rank Value: 1.05

The junior 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 - Credit 1**

Class Rank Value: 1.10

The junior 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 20<sup>th</sup> 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 may be required.

## **SENIOR ENGLISH**

### **142 English 12 - Credit 1**

Class Rank Value: 1.00

The senior course will focus on reading comprehension and composition skills. A survey of English authors and some world authors will allow exposure to various literary styles including fiction, non-fiction, poetry and drama. Research skills are addressed, and a number of writing skills are explored, including a college essay writing unit. The class will also focus on vocabulary skills.

### **141 CP/English 12 - Phase 1 - Credit 1**

Class Rank Value: 1.05

The senior course will stress composition skills in the following areas: expository, persuasive, and narrative writing. The literature program will include an in-depth study of several British authors and some world authors. Various literary styles – such as fiction, poetry, and drama – will be studied. A research paper is required and vocabulary will be incorporated on a regular basis.

### **140 Hon/English 12 - Credit 1**

Class Rank Value: 1.10

The senior 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 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 after discussion with instructor

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 literature course with a heavy emphasis on expository writing, in-depth analysis, and thoughtful discussion. The focus will be on British literature but will include some works by American and world authors. Continued emphasis on vocabulary and on the study of advanced literary devices and concepts is a class focus. *Students will be required to purchase their course books and are encouraged to take the Advanced Placement test in May. Students are responsible for the AP Exam fee.*

**173 Introduction to Drama - (S) - Credit ½**

Class Rank Value: 1.05

Sophomores, juniors and seniors only (upper classmen priority); 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: vocal expression and projection, stage movement, gestures, blocking, improvisation, script reading and scene performance, script writing, character analysis, mime, and an overview of stage terminology. *(This course counts toward the fine arts requirement for graduation.)*

**175 Creative Writing - (S) - Credit ½**

Class Rank Value: 1.05

Sophomores, juniors and seniors only; (upper classmen priority); 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, humor columns, and other forms of descriptive writing. Much emphasis is placed on breaking out of the expository mode and really experimenting with language. *(This course counts toward the fine arts requirement for graduation.)*

**176 Yearbook & Newsletter Publication – Credit 1**

Class Rank Value: 1.05

Juniors and seniors only; class size is limited.

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 and newsletter. They will also be actively involved in the business aspects of the process: selling advertisements, yearbooks, and fundraising. *(This course counts toward the fine arts requirement for graduation.)*

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

Class Rank Value: 1.05

Sophomores, juniors and seniors only; (upper classmen priority); 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 counts toward the fine arts requirement for graduation.)*

**101 English Language Learner Seminar – Credit 1**

Class Rank Value: 1.00

English Language Learner (ELLs) only

The English as a Second Language Seminar focuses on preparing students in the academic skills of reading, writing, listening, speaking, and grammar and vocabulary expansion. Students will have the opportunity to learn and use a variety of learning and reading strategies throughout the course. Students also practice skills which will enhance their proficiency in communicating in a variety of social, academic and employment situations. Students in this course will build their English language proficiency in linguistic complexity, language control, as well as vocabulary, through content-focused, meaning-centered activities which naturally integrate all domains of communication.

**102 ELL English Course – Credit 1**

Class Rank Value: 1.00

English Language Learner (ELLs) only

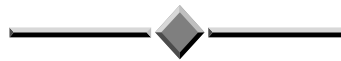
ESL English offers a combination of English language acquisition and literature exploration for students who have recently arrived in the United States and have a beginning English Proficiency Level. This course will introduce students to the grammatical structures of English, basic and intermediate vocabulary, and pronunciation skills. Students in ESL English will also develop skills in sentence, paragraph, and essay formation. In addition, students will read and respond to a variety of novels, short stories, and plays. Readings will be offered in a variety of forms (native language, leveled readers, recorded books and original English text). The instructor will introduce useful strategies which will accelerate English Language Learners progress. Students who complete this course will be further prepared to participate in other high school academic courses.

**118 Read 180 – Credit 2**

Class Rank Value: 1.00

This class meets a full block every day. (By teacher recommendation only)

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. (*This course counts toward English graduation requirement.*)



## HEALTH/WELLNESS

### **840 Community Based Learning – Credit 1**

Class Rank Value: 1.00

Seniors and juniors only (Srs. 1<sup>st</sup> choice)

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

Class size is limited

This course will focus on the physical, social, emotional, and intellectual development of children from the pre-pregnancy stage to school age. This 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.

### **902 Health 1 – (S) – Credit ½**

Class Rank Value: 1.00

**Required for all students**

**Health 1 is a requirement for all 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.



## **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 French 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 and Civilization.

**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 or permission of instructor

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.

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

**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.

**560 Spanish Immersion – Credit ½\***

Class Rank Value: 1.05

Prerequisite: Spanish 2 or permission of the instructor

This one semester course fully immerses the student in the Spanish language. Although the focus of the course is on speaking and reading, writing will be minimally incorporated. The entire course (except the first day when grading and class procedures will be outlined in English) will be conducted in Spanish. Students may take this course the first or second semester or both. Spanish Immersion is highly recommended to any student who intends on taking a trip abroad. It will, however, rapidly and dramatically improve speaking ability in Spanish for anyone.

\*May be taken up to 3 semesters.



**MATHEMATICS**

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

Class Rank Value: 1.00

**This class meets a full block every day**

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.

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

Class Rank Value: 1.00

**This class meets a full block every day**

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 Honors Geometry and/or Honors Algebra 2.

### **320 Geometry - Credit 1**

Class Rank Value: 1.05

Prerequisite: Algebra 1

The study of Geometry explores planes, lines, angles, 2 and 3 dimensional shapes, congruency and similarity, 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 vocabulary and logic. Students need to have successfully completed an Algebra 1 course to be prepared for geometry. This course can lead to good mathematical preparation for vocational school or college.

### **319 Honors Geometry - Credit 1**

Class Rank Value: 1.10

Prerequisite: Algebra 1

The rigorous study of Geometry explores planes, lines, angles, 2 and 3 dimensional shapes, congruency and similarity, 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.

### **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, 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.

### **329 Honors 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.

**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.

**364 Honors 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.*

**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 input from 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. Students may receive college credit from most colleges and universities for successful completion of the course and the Advanced Placement exam. *A graphing calculator is required. Students will be required to purchase their course book and are encouraged to take the AP exam in May. Students are responsible for the AP exam fee.*

**368 Math Topics A – Credit ½**

**369 Math Topics B – Credit ½**

Class Rank Value: 1.05

Prerequisite: Algebra 2

These semester courses cover a variety of math topics with an emphasis on problem solving.

*You may sign up for either or both semesters.*

A/Semester 1 Topics include: Arithmetic with “\*” operations, Inequalities and Absolute Value, Matrices, Determinants, and Systems of Equations, Number Theory, Geometric Similarities,

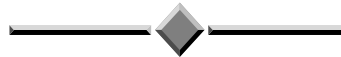
Arithmetic with Ratio and Proportion, Series and Sequences, Counting Principles, Binomial Theorem, and Polynomials.

B/Semester 2 Topics include: Area and Volumes, Probability, Exponents and Radicals, Lines, Angles, and Polygons, Complex Numbers, Arithmetic with Percents, 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  
Prerequisite: Algebra 2

Class Rank Value: 1.05

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  
See description below

**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 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 - Physical Education – Credit ½ (freshmen)**

**900 - Physical Education – Credit ½ (sophomores)**

Class Rank Value: 1.00

**1 credit of Physical Education is required for graduation**

Emphasis is placed on physical fitness, fine and gross motor skill development, and individual/team lifetime activities such as tennis, volleyball, soccer, and floor hockey. Each student will develop a personal fitness plan and develop a workout log to be used in conjunction with our weight room and fitness center. Basic human anatomy and physiology will be addressed along with heart rate training and goal setting.

**906 Fitness for Life – Credit 1**

Class Rank Value: 1.00

**(Elective) juniors and seniors only**

This course will take place in the 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. This course offers a limited amount of individual sports/activities.



## SCIENCE

### **412A Everyday Science A – (S) - Credit ½**

Class Rank Value: 1.00

This semester course will cover topics of atomic structure, ionic and covalent bonding, light absorption and emission, chemical reactions, prediction of products and reactants, factors that affect the rate of reactions, acids and bases, mixtures, behavior of gases, current environmental issues, everyday applications, nuclear reactions, historic theories, kinetic theory, measuring heat, heat as energy, and engineering. This course is designed for students that may struggle with reading and math skills.

### **412B Everyday Science B – (S) - Credit ½**

Class Rank Value: 1.00

This semester course will cover topics of motion, graphing, centripetal acceleration, momentum, Newton's laws, forces, gravity, work, power and simple machines, forms of energy, types and properties of waves, space science, optics, electric motors, basic circuits, magnets and electrical generation, solar panels, engineering, current environmental issues, historic theories, and everyday applications. This course is designed for students that may struggle with reading and math skills.

### **410 Hon/Physical Science - Credit 1**

Class Rank Value: 1.10

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.

### **411A CP/Physical Science A – (S) - Credit ½**

Class Rank Value: 1.05

This semester of physical science is a course designed as a basic course that will develop skills in metrics, lab observations and formula use. Topics covered will be: atomic structure, ionic and covalent bonding, light absorption and emission, chemical reactions, prediction of products and reactants, factors that affect the rate of reactions, acids and bases, mixtures, behavior of gases, current environmental issues, everyday applications, nuclear reactions, historic theories, kinetic theory, measuring heat, heat as energy, and engineering.

### **411B CP/Physical Science B – (S) - Credit ½**

Class Rank Value: 1.05

This semester of physical science is a course designed as a basic course that will develop skills in metrics, lab observations and formula use. Topics covered will be: motion, graphing, centripetal acceleration, momentum, Newton's laws, forces, gravity, work, power and simple machines, forms of energy, types and properties of waves, space science, optics, electric motors, basic circuits, magnets and electrical generation, solar panels, engineering, current environmental issues, historic theories, and everyday applications.

**420 Hon/Biology - Credit 1 ½**

Class Rank Value: 1.10

Prerequisite: A year of Physical Science and Algebra 1 or by permission

This course presents the nature and meaning of discoveries and principles of biology. This course is rigorous and involves lectures, discussions, laboratory exercises and investigations, library research and practical applications. Each student must do considerable reading and study. Subject areas include cellular and molecular biology, genetics, biotechnology, biodiversity, continuity of life and interconnectedness of life on this planet.

**421A CP/Biology A – (S) - Credit ¾**

Class Rank Value: 1.05

Prerequisite: A year of Physical Science and Algebra 1 or by permission

This semester of biology will include lectures, laboratory exercises, research and practical applications while covering the topics of cells, genetics and biotechnology.

**421B CP/Biology B – (S) - Credit ¾**

Class Rank Value: 1.05

Prerequisite: CP Biology A

This semester of biology will include lectures, laboratory exercises, research and practical applications while covering the topics of continuity of life, biodiversity and man's relation to all of life.

**429 AP/Biology – Credit 1 ½**

Class Rank Value: 1.15

Prerequisite B or better in Chemistry and Biology and teacher input strongly recommended

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. The three main areas covered are 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. *Students will be required to purchase their textbook and lab manual and are encouraged to take the AP exam in May. Students are responsible for the AP exam fee.*

**430 Hon/Chemistry - Credit 1 ½**

Class Rank Value: 1.10

Prerequisite: Successful completion of Algebra 1, Physical Science, &amp; Biology

The organization and goals of this rigorous chemistry course 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 complex mathematical skills. Students are required to record all laboratory work. The course includes lectures, group work, detailed problem solving, laboratory exercises and outside reading.

**431 CP/Chemistry – Credit 1 ½**

Class Rank Value: 1.05

Prerequisite: Successful completion of Algebra 1, Physical Science, &amp; Biology

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 with mathematical skills. Students are required to record all laboratory work. The course includes lectures, group work, problem solving, and laboratory exercises.

**437 Bio-Organic Chemistry - Credit 1**

Class Rank Value: 1.10

Prerequisite: Grade of C or better in Biology &amp; Chemistry or permission of instructor

We need to know about organic and biochemical molecules because they are so closely tied with social, economic, political and ethical issues that we have to deal within our world. Day after day we see new questions, issues, problems and controversies based on things that happen in organic and biochemistry. This course will help you understand and deal with these issues. Also if you are planning a career in any of the health-related fields, you will have to take organic and biochemistry in college. This course will give you an introduction to both of these subjects. Topics covered include the various classes of organic compounds, the macromolecules of life and how they are metabolized, pharmacology, energy alternatives and the energy crisis. Extra credit is available if you bring in outside speakers for the class.

**440 Honors Physics - Credit 1 ½**

Class Rank Value: 1.10

Prerequisite: Successful completion of Algebra 2, Biology and Physical Science or permission of instructor

This course is designed for students planning on selecting a challenging major in college including science, engineering, pre-med and computer science. A large emphasis is also placed on study habits and developing good habits for college work. Topics covered are: kinematics, work, power, energy, momentum, optics, electrical theory, and the place of science in society.

**441 CP/Physics – WHS Credit 1 ½ & KVCC 4 Credits (Dual enrollment)**

Class Rank Value: 1.05

Prerequisite: Successful completion of Algebra 1, Biology, and Physical Science and enrollment in or completion of Geometry

This course provides an introduction to the basic principles of physics. Students gain an understanding of mechanics, heat, and thermodynamics. Emphasis is placed on laboratory work, problem solving and applications to everyday life situations. A large emphasis is also 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.

**427 Survey of Anatomy & Physiology – (S) - Credit ½**

Class Rank Value: 1.05

Elective course for sophomores, juniors or seniors

This course will cover the major organ systems of the human body as well as tissues and cells. Emphasis would also be placed on diseases associated with organ systems. It is designed for students considering careers in the medical field such as nursing or medical technology.

**426 Ocean Science – (S) - Credit ½**

Class Rank Value: 1.05

Elective course for sophomores, juniors, or seniors

Content covered in this course would be currents, geologic features, oceanic zones, biodiversity, the history of oceanic exploration and the impacts that humans are having on our oceans. This course will introduce many of the topics that could lead to possible careers in marine biology or oceanography in the state of Maine or elsewhere.

**446 Engineering by Design– (S) - Credit ½**

Class Rank Value: 1.05

Elective course for sophomores, juniors, or seniors (does not replace Physical Science or Biology)

This is a largely activity based course that explores engineering content and professional practices through practical applications. Students will apply technology, science and mathematical concepts and skills to solve engineering design problems and to create innovative designs by following the engineering process.



**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. **The different levels of the required courses cover the same content, but employ different teaching methods and assignments.** Elective courses available to seniors are AP Economics, Psychology, and American Government/Law.

**210A & B Hon/CP211A & B/212A & B World Geography - Credit ½ per semester**

Required for freshmen

Class Rank Value: Hon/1.10; CP/1.05; General/1.0

World Geography explores the relationship between the physical environment and human activity. Content includes cultural, economic, and political geography as well as physical geography. History and current events are examined. As 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. World Geography A introduces students to the concepts, skills, and issues of physical geography. World Geography B emphasizes cultural/human geography through a study of the different regions of the world.

**220A & B Hon/CP221A & B/222A & B Western Civilization - Credit ½ per semester**

Class Rank Value: Hon/1.10; CP/1.05; General/1.0

Required for sophomores - Prerequisite: World Geography

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. Western Civilization A covers the time periods ranging from the first civilizations through the High Middle Ages. Western Civilization B covers from the Renaissance through the end of World War I.

**228 AP/European History – Credit 1**

Class Rank Value: 1.15

Prerequisite: World Geography; in place of Western Civ. for sophomores. Teacher input strongly recommended. For sophomores. (May be open as elective for juniors & seniors if space available)

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. *Students will be required to purchase the textbook, the primary and secondary source readers, and the study guides and are encouraged to take the AP exam in May. Students are responsible for the AP Exam fee.* 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; teacher input recommended

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. *Students will be required to purchase the textbook, the primary and secondary source readers, and the study guides and are encouraged to take the AP exam in May. Students are responsible for the AP Exam fee.* Students receive college credit from most colleges and universities for successful completion of this course and the Advanced Placement Examination.

**230A & B Hon/231A & B CP/232A & B U.S. History - Credit ½ per semester**

Class Rank Value: Hon/1.10; CP/1.05; General/1.0

Required for juniors

Prerequisite: Western Civilization or AP European History

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. U. S. History A will cover topics from the drafting of the United States Constitution through the Reconstruction era. U. S. History B will focus on the periods from Reconstruction through the modern era.

**240 Psychology – Credit 1**

Class Rank Value: 1.05

Prerequisite: Algebra 1 and Biology; seniors and juniors (srs. first)

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 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

Requirements: Pre-Calculus Teacher input is strongly encouraged.

Recommended for students with strong math skills and an interest in history.

AP Economics 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. *Students will be required to purchase both the textbook and the study guide and are encouraged to take the AP exam or equivalent in May. Students are responsible for the AP Exam fee.*

**248 Principles of Economics – Credit 1**

Class Rank Value: 1.05

Seniors and juniors 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, including inflation, unemployment, the budget deficit, and the trade deficit are regularly discussed. Students will learn both basic economic principles and the fundamentals of financial investment through participation in student activities such as a web-based national stock market simulation.

**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

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

(2 years of JMG fulfills Career Prep graduation requirement)

JMG's Multi-Year program gives 9<sup>th</sup> – 11<sup>th</sup> 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

2011-2012

3 Brooklyn Avenue

Waterville, ME 04901

Telephone: 873-0102 Ext. 2900

www.mmtc.ws

Mid-Maine Technical Center is a career/technical center located on the campus of Waterville High School. Mid-Maine TECH offers twenty-four technical courses to area high school students. All technical 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: Lawrence, Messalonskee, Waterville and Winslow High Schools. Students attend Mid-Maine Technical Center as part of their regular academic schedule, while taking 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**

Integrated credits may also be earned for high school graduation through completion of some Mid-Maine TECH courses. **Prior approval from the student's high school guidance counselor must be obtained before seeking academic credit.** Students who pass the academic requirements and technical program receive 2 credits for their technical program and one credit in fine arts, math, or science.

### **Dual College Credits**

Formal agreements with community colleges provide Mid-Maine TECH students with the opportunity to earn college credits through Mid-Maine TECH courses of study. Students are simultaneously enrolled at Mid-Maine TECH and the Community College. Upon completion of course requirements, students are issued a college transcript in addition to their high school grade reports.

### **National & State Program Certification**

All courses at Mid-Maine Technical Center have achieved National Program Certification or are using Maine State Licensing standards, which provides the opportunity for students to earn over 50 industry-recognized certifications.

**All MMTC Classes Rank Value: 1.00**

## CTE ACADEMY

### 989 CTE Academy/ AM 1.5 Credits

The CTE Academy provides 9<sup>th</sup> and 10<sup>th</sup> grade students instruction and training intended to prepare them for enrollment in one of Mid-Maine TECH's Certified Technical programs. Students develop a core of technical knowledge and skills through participation in a variety of applied learning experiences. *The CTE Academy is a 1.5 credit course.*

**Student Certification:** OSHA 10-hour Certification

#### AM – Waterville & Winslow Students

Students attend on alternate days for the entire school year.

#### PM – Lawrence & Messalonskee Students

Students attend daily for 1 semester

## 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 Core Curriculum, Level I & II, OSHA 10/30 Hr. Certification

**Integrated Credit:** Math, Fine Arts\* (\*PM only)

**Dual College Credit Agreement:** EMCC: BCT-151, Residential Construction – 7 Credits; NMCC: SAE 121, Industrial Safety – 3 credits

### 991 CTE Residential Construction/AM 3 credits    992 CTE Finish Carpentry/PM 3 credits

Blue Print Reading

Frame Interior/Exterior Walls

Roof Shingling

Install Insulation

Painting & Staining

Estimation of Materials

Prepare Building Site

Install Roof Components

Install Windows & Doors

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 career and post secondary educational fields such 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 & 2, Core Curriculum, & Maine Electrical Helper's License, 45 hour NEC Code Course, OSHA 10/30 hour certification.

**Integrated Credit:** Math

**Dual College Credit Agreement:** Kennebec Valley Community College: ETL – 121, Electrical Wiring Practices - 5 credits, NMCC: SAE 121, Industrial Safety – 3 credits

**997 CTE Electrical 1/AM 3 credits**

Electrical Applications  
Diagnose & Repair Electrical Problems  
Wire Electrical Circuits  
Test Circuits with Meters  
Workshop Safety & Procedures

**998 CTE Electrical 2/PM 3 credits**

Master Electrician Credits  
Electrical System Design  
Project Estimation  
Read & Interpret Blue Prints  
System Installation

**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 AutoCAD, Inventor, & Revit software, meets national standards and helps students master the fundamentals of the design and drawing process. *These courses satisfy the WHS computer proficiency requirement.*

***National Program Certification:*** American Design Drafting Association

***Student Certification:*** AutoCAD Certified Associate, Revit Architectural Certified Associate

***Dual College Credit Agreement:*** EMCC – CAD 101 – Intro to CAD - 3 credits

**965 CTE Arch. Design/Drawing/AM 3 credits**

American Institute of architects Standards  
Fundamental Architecture Technology  
Design & Draw Residential Home  
Construction Materials & Methods

**970 CTE Tech. Design/Drawing/PM 3 credits**

Conceptualize & Design Mechanical Parts  
Problem identification & Solving  
Graphic Expression & Animation  
Basic Machine Shop Techniques

**COMPUTER TECHNOLOGY**

Students learn how to build, upgrade, and service PC computers, and set up and maintain a local area computer network. *This course satisfies the WHS computer proficiency requirement.*

***National Program Certification:*** CompTIA, IC3 and APPLE

***Student Certification:*** Comp-TIA A+, CompTIA A+ Practical Applications, Computing Fundamentals (IC3), Key Applications (IC3), Living Online (IC3), APPLE Certified Mac Technician – Apple Macintosh Service Exam 9L0-008, Apple Certified Mac Technician – Mac OSX V10 Troubleshooting Exam 9L0-062.

***Dual College Credit Agreement:*** Kennebec Valley Community College: ETC-110, Computer Operating Systems - 3 credits

**980 CTE PC Servicing/AM 3 credits**

Install Computer Hardware  
Configure Computer  
Perform Preventive Maintenance

**981 CTE Apple Tech & Into to Networking/PM 3 CR**

Install Apple Hardware & Software  
Apple Certified Repairs & Service  
MLTI Apple Mac book Troubleshooting

## **DIGITAL GRAPHICS**

Students use the latest technology and courseware to develop skills in design, marketing, and media. Students combine artistic abilities, business sense, and technical proficiency to create an electronic portfolio of projects and consumer-based design work. *These courses satisfy the WHS computer proficiency requirement.*

***National Program Certification:*** Print Ed and Adobe Certified

***Student Certification:*** PrintEd Introduction to Graphic Communications, PrintEd Digital File Prep, Adobe Certified Associate – Photoshop, Flash, Dreamweaver

***Integrated Credit Available:*** Fine Arts

***Dual College Credit Agreement:*** Central Maine Community College: GAT-100, Intro to Printing - 2 credits & GAT-176, Adobe Photoshop I – 3 credits

### **977 CTE Print Design/Production/AM 3 credits** **978 CTE Web Design/Animation/PM 3 credits**

Introduction to Graphic Design

Collage & Photography

Elements of Advertising

PDF Portfolio Design

Printing Methods & Technologies

Digital Illustration & Image Capture

Adobe fireworks Flash, & Dreamweaver

Digital File Preparation

Website construction

Interactive Media

## **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:*** National Restaurant Association

***Student Certification:*** American Culinary Federation Secondary Graduate, Serv-Safe Food Safety 16/30 hr

***Integrated Credit Available:*** Math

***Dual College Credit Agreement:*** 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 Accreditation:*** National Association for the Education of Young Children Accredited Program

***Student Certification:*** American Red Cross First Aid & CPR, Certified Early Childhood Assistant

***Dual College Credit Agreement:*** TBA

**966 CTE Child Care/AM 3 credits**

Infant & Toddler Care  
Early Learning Nursery School  
Promote Nutrition  
Perform CPR & First Aid  
Child Development

**967 CTE Early Childhood Ed/PM 3 credits**

Perform CPR & First Aid  
Plan & Implement Mid-Maine TECH Preschool  
Plan Preschool Operations  
Provide Creative Experiences  
Promote Social & Emotional Development

**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 & KVCC, Maine Fire Training & Education.

*Student Certification:* Emergency Medical Technician Basic (AM only), ASHI First Aid & AHA CPR (AM & PM), Firefighter BLS (PM only).

*Integrated Credit Available:* Science (EMT/.5 Biology; Firefighter/.5 Physical Science)

*Dual College Credit Agreement:* KVCC: EMS-111, Basic EMT - 5 credits

**983 CTE Emergency Medical Tech /AM 3 credits** **990 CTE Firefighter/PM 3 credits**

First Responder/CPR Certification  
Patient Assessment  
Human Anatomy & Medical Terminology  
Emergency Vehicle Operations  
Self Defense  
Patrol Procedures

Fire Science & Behavior  
Rescue Operations  
Fire Control Procedures  
Equipment & Vehicle Operations  
Fire & Crime Scene Investigation  
Criminal Law

**MEDICAL CAREERS**

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 Nursing Assistant Exam.

*Program Certification:* Maine Certified Nursing Assistant

*Student Certification:* Maine Certified Nursing Assistant, ASHI First Aid & AHA CPR

*Integrated Credit Available:* Science

*Dual College Credit Agreement:* CMCC: MET-111, Medical Terminology - 3 credits

**973 CTE Nurse Assistant (CNA)/AM 3 credits**

**974 CTE Nurse Assistant (CNA)/ PM 3 credits**

Basic Medical Asepsis  
Vital Signs  
First Aid & CPR  
Nutrition  
Patient Care Skills  
Medical Terminology

## **AUTOMOTIVE COLLISION REPAIR TECHNOLOGY**

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 Painting & Refinishing, Non-structural Analysis & Damage Repair, ICar Points

**Dual College Credit Agreement:** NMCC: Thin Metal Welding WEI 113 – 3 credits

### **985 CTE Collision Repair/AM 3 credits**

Automotive Design & Shape  
Fiberglass/Plastic Panel Repair  
Welding  
Frame Repair

### **986 CTE Auto Refinishing/PM 3 credits**

Surface Preparation  
Spray Equipment  
Mix & Apply Primer  
Color Mixing

## **AUTOMOTIVE TECHNOLOGY**

Students use the latest technology to diagnose and repair automobile problems. Skills areas include automotive maintenance service, brakes, steering, suspension, and advanced auto systems.

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

**Student Certification:** Maine State Inspection, NATEF Brakes, Suspension & Steering, Electrical, Engine Performance.

**Integrated Credit Available:** Math

**Dual College Credit Agreement:** CMCC: AUT – 100, Intro to Automotive Technology – 1 credit, AUT – 110, Brakes – 2 credits; AUT – 120, Steering & Suspension – 2 credits, AUT – 150, Electrical – 3 credits.

### **987 CTE Automotive Services/AM 3 credits**

Perform Scheduled Maintenance  
Brake Systems  
Electrical Fundamentals  
Steering & Suspension

### **988 CTE Automotive Systems/PM 3 credits**

Engine Mechanical Functions  
Advanced Chassis Systems  
Computer Control Systems  
Fuel & Exhaust Systems

## **PRECISION MACHINING**

Students learn how to manufacture metal parts using precision machining technology and computer numerically controlled machines.

**National Program Certification:** National Institute for Metalworking Skills – NIMS

**Student Certification:** NIMS Machining Level I: Turning, Work-Layout & Measurement, Materials-Safety

**Integrated Credit Available:** Math; Fine Arts

**Dual College Credit Agreement:** KVCC: 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 MIG Welding

**976 CTE Machinist Operations/PM 3 credits**

Perform Part Inspection  
Operate Milling Machine  
Operate Numerically Control Machine  
Perform Welding Operations