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TO: Students and Parents  
FROM: Kelly Fortner, Guidance Director  
DATE: April, 2008  
SUBJECT: 2009/2010 Course Registration

The attached materials are intended to assist you in scheduling courses for the 2009/2010 school year.

1. Students are required to accumulate 24 graduation credits. Please note the following: In order to be promoted to the next grade level, students must have accumulated 6 credits at the end of their freshman year, 12 at the end of their sophomore year, and 18 credits at the end of their junior year.
2. Students are permitted one study hall that meets five days per week.
3. Students are not permitted to schedule their own math classes. Current math teachers will select the appropriate math course for each student based on current year's performance, ability, and grades.
4. No changes will be made to students' schedules once school has started. Students can contact the school counselor during the ten days prior to the start of school to make any requested schedule changes. No exceptions.
5. Students are permitted to add a semester course in place of a study hall prior to the start of the second semester, provided the requested course has space available. Students are not permitted to change a previously-scheduled semester course.

It is necessary for students to plan ahead and discuss scheduling with those persons in a position to provide helpful information about appropriate course selection. In most cases, this will be parents/guardians, your teachers, and the school counselor. Every student should take advantage of the opportunity to discuss scheduling with as many of these individuals as possible.

Should a parent wish to discuss a student's intended schedule, please call 643-8500 to schedule an appointment with the principal, school counselor, or a classroom teacher.

## GRADUATION REQUIREMENTS

All students must successfully complete *23 academic credits*, as outlined below. All students must also successfully complete a *graduation project, worth one credit*, bringing the *total graduation credit requirements to 24*.

ENGLISH	4 CREDITS
MATHEMATICS	4 CREDITS
SCIENCE	3 CREDITS - ONE <u>MUST BE</u> BIOLOGY
UNITED STATES HISTORY I	1 CREDIT
UNITED STATES HISTORY II	1 CREDIT
WORLD CULTURES	1 CREDIT
POD/ECONOMICS	1 CREDIT
PHYSICAL EDUCATION	1.5 CREDITS
COMPUTERS (grade 9 required rotation)	1 CREDIT
HEALTH	½ CREDIT
LOCAL SCHOOL DISTRICT ELECTIVE	
COURSES INCLUDING VO TECH COURSES	5 CREDITS
GRADUATION PROJECT	1 CREDIT
TOTAL	24 CREDITS

Students must earn at least a "D" grade in order to earn the above-noted credit.

Please note the following:

1. Students must register for one semester (.5 credit) of physical education in grades 9, 10, and 11. If students elect to take physical education two semesters in a given school year, the additional credit will be counted as a general elective credit, not applied towards the physical education credits required for graduation.
2. A passing grade in a vo-tech shop will earn students three credits per year. Juniors attending vo-tech will receive their third science credit based on vo-tech enrollment and are not required to take a third science credit at Western Beaver. Seniors attending vo-tech will receive their fourth math credit based on vo-tech enrollment and are not required to take a fourth math credit at Western Beaver. Only juniors, seniors, and sophomore Cosmetology students are permitted to attend vo-tech. No exceptions.

# What's New at Western Beaver?

## **Penn State University**

Penn State will co-teach Comp III and Psychology here at Western Beaver. Students will be able to earn both Penn State credits and WB credits at the same time, during the regular school schedule. Space will be limited in both courses, with seniors having scheduling priority.

Juniors and Seniors can take Penn State courses on campus at Penn State Beaver. This dual enrollment program is free of charge [for tuition and fees – text books must be purchased by students]. Students can earn college credits and WB elective credit at the same time.

## **University of Pittsburgh**

Pitt authorizes CHS Statistics and CHS Calculus here at Western Beaver. Students will be able to earn both Pitt credits and WB credits at the same time, during the regular school schedule. Space will be limited in both courses, with seniors having scheduling priority.

## **Community College of Beaver County**

Sophomores, Juniors, and Seniors can take CCBC courses on campus at CCBC. This dual enrollment program is free of charge [for tuition and fees – text books must be purchases by students]. Students can earn college credits and WB elective credit at the same time.

## **Clarion University**

Sophomores, Juniors and Seniors can take Clarion courses on online through Clarion. This dual enrollment program is free of charge [for tuition and fees – text books must be purchases by students]. Students can earn college credits and WB elective credit at the same time.

## **A.P. Courses Available**

Students will have the opportunity to take several AP designated courses including: AP Literature, AP Language, AP Government and AP Environmental Science. Students will have the opportunity to take the AP Exam for each course that may allow them to earn credits which may be accepted by most colleges/universities.

## **RCI – Open Seats and IVC**

Through the BVIU, there are many course offerings that may be available through different Beaver County high schools, both on-site and through IVC. Students who have irresolvable scheduling conflicts or who have exhausted all possible course offerings may be able to take advantage of these Open Seats. Students may also be offered opportunities through Open Seats during study halls or other non-academic time in their schedules.

## GENERAL RULES ABOUT COURSE ADDITIONS/DROPS

1. Changes can only be made during the ten days before the school year begins. Schedules will not be changed once the school year has begun.
2. No class may be dropped once the school year begins. If a parent insists a student's class be dropped, the parent must sign the appropriate form, acknowledging that the student will receive a "WF" grade for the year. This "WF" grade will appear on the student's permanent transcript and will be factored into a student's G.P.A.
3. Registration forms are to be signed by the parent or guardian as well as by the student. Alternate course selections must be completed on all registration forms. Alternate course selections will be used when students' first choice cannot be met.
4. Students are responsible for completing requirements for graduation and for making up any failed courses. It is very important that class selection is approached seriously. A student's future may depend on his/her high school background.
5. Students cannot register for a class if they lack the course pre-requisite. Please check your course description booklet carefully to ensure that students are eligible for the courses they select.

## SEQUENTIAL SUBJECTS

No student receiving a "D" or "F" in a subject will be permitted to schedule the second year of that subject. Students who fail or do unsatisfactory work are urged to attend summer school or to retake the course during the next school year.

## 14.25 (b) SPECIAL EDUCATION SERVICES AND PROGRAMS

Parents who suspect that their child is exceptional may request a multidisciplinary evaluation of their child at any time. The request must be in writing. If a parental request is made orally to school personnel, the personnel will inform the parents that the request must be made in writing. School personnel will also provide the parents with a form for that purpose.

Parents of exceptional children should be aware that learning support and gifted support in the form of support classes/enrichment/acceleration opportunities are available as supplements to their child's schedule.

For information regarding protected handicapped students, please contact Mr. Eric Palmer, Director of Special Education Services at 643-4910.

### TITLE IX STATEMENT

Western Beaver County School District is an equal opportunity education institution and will not discriminate on the basis of race, color, national origin, sex or handicap in its activities, programs or employment practices as required by Title VI, Title IX and Section 504.

### PROTECTED HANDICAPPED STUDENTS

The Western Beaver County School District will not discriminate against protected handicapped students as defined in Chapter 15 or the regulations of the State Board of Education. The Western Beaver County School District will provide each protected handicapped student enrolled in the district, without cost to the student or family, those related benefits of the school program and extracurricular activities without discrimination and to the maximum extent of the student's ability. For information regarding civil rights, grievance procedures or handicapped students, please contact: the Title IX, Section 504 and support programs coordinator, 216 Engle Road, Industry, PA, 15052, Phone (724) 643-8500; Fax: (724) 643-8504.

## COURSE OFFERINGS

### ENGLISH (MUST HAVE 4)

English 9  
English 10  
English 11  
English 12  
Honors American Literature I  
Composition and Literature I/Pre AP  
Composition and Literature II  
Composition and Literature III/Penn St Eng 15\*  
AP Language and Composition\*  
AP Literature and Composition\*

### SCIENCE (MUST HAVE 3)

Biology (must be taken in Grade 9)  
Biology II (Lab)\*  
General Chemistry  
Chemistry I  
Chemistry II (Lab)\*  
Environmental Science (must be taken in Grade 10)  
Physics\*  
AP Environmental Science\*

### ARTS/HUMANITIES ELECTIVES (MUST HAVE 2)

Band I, II, III, IV – full year  
Chorus I, II, III, IV – full year  
Drawing I, II, - semester  
French I, II, III, IV\* - full year  
Mixed Mediums I, II - semester  
Mural Painting - semester  
Painting I, II - semester  
Sculpture I, II - semester  
Spanish I, II, III, IV\* - full year  
Speech – semester  
Fine/Performing Arts (formerly Theatre Arts – full year)  
Writing for Journalism – full year  
Vo Tech – 22 different shops  
Yearbook Elective I, II, III, IV – full year

### MATHEMATICS (MUST HAVE 4)

Integrated Math I  
Integrated Math II  
Integrated Math III  
Integrated Math IV  
Algebra I  
Algebra II  
Plane Geometry  
Trigonometry Anal/Geometry  
Calculus\*  
Statistics\*

### SOCIAL STUDIES (MUST HAVE 4)

United States History I  
United States History II  
World Cultures  
POD/Economics  
Service Learning I & II  
AP U.S. Government and Politics\*  
Intro to Psychology/Sociology/Penn St Psy 100

### HEALTH/PHYS ED/DRIVERS' ED (MUST HAVE ALL)

Physical Education- ½ credit course per year for three years.  
Health – Grade 10 – ½ credit (1 semester)

### BUSINESS/TECHNOLOGY ELECTIVES

Accounting I, II – full year  
Construction I, II, III, IV - semester  
Contemporary Foods - semester  
Exploratory Computers – full year  
Foods For Life- semester  
Manufacturing I, II, III, IV - semester  
Power Point/Access - semester  
Spreadsheet (Excel) - semester  
Technical Drawing I, II, III – full year  
Textile Arts (sewing) - semester  
Web Page Design I & II – full year

*\*Starred subjects receive extra quality points based on final grades, as follows: A=.1, B=.09, or C=.08. No additional values for a "D" or "F" will be given. These values will be added after the grade point average has been calculated. .*

## VOCATIONAL EDUCATION

If a student wishes to attend the Beaver County Career & Technology Center (previously Vo-Tech), he/she must have successfully completed all ninth and tenth grade required courses. There will be no class time to "make-up" failed courses since students are only at the High School for four (4) class periods during their junior and senior year and must fulfill junior and senior requirements during that time.

If a student wishes to go to college after attending the Career & Technology Center, he/she must plan course selection very carefully, or he/she may lack required courses necessary for college entrance.

Interested sophomores must apply for the Career & Technology Center acceptance by January of their sophomore year. All sophomores will see a film on the school and will be permitted to take a field trip to tour the Career & Technology facilities. Applicants will not be considered if they have missed more than 10 days of school in the first semester. Students will usually be informed of acceptance into the program by February of the year in which they apply. Applicants may elect to take the Armed Services Vocational Aptitude Battery (ASVAB) given at the High School in October. The results of the ASVAB will allow students to see their areas of strength, and may help them in choosing an area of study at the Career & Technology Center..

Area schools are allotted positions in the programs ("shops") according to their enrollment. Because Western Beaver is very small, we generally are allotted limited positions for each of the 22 shop areas listed below. Oftentimes, good candidates are disappointed because of ineligibility (e.g., they have not fulfilled graduation requirements during 9<sup>th</sup> and/or 10<sup>th</sup> grade; they exceed the number of absences allowed for application; they have missed the application deadline, etc.). Competition is very strong for many shop areas. When more than one candidate applies for a specific shop, attempts will be made by the Vo-Tech counselor to seek additional positions. If additional positions are not available, positions will be awarded on a first-come, first-served basis based on the date of submission of the Vo-Tech application.

The following shops are available at Vo-Tech:

Automotive Mechanics	Graphic Arts & Printing
Business Information Systems	Greenhouse/Landscaping
Carpentry	Health Occupations
Collision Repair Technology	HVAC-R
Commercial Art & Design	Logistics & Materials Handling
Cosmetology	Machine Tool Technology
Drafting & Design Technology	Masonry/Bricklaying
Electrical Occupations	Plumbing & Heating
Food Preparation & Service	Welding

## COURSE SUMMARIES AND PRE-REQUISITES

### ENGLISH

#### General English 9

General English 9 concentrates on general grammar usage and mechanics. Emphasis is placed upon repetition in traditional grammar terms, their usage and the composition of the paragraph and informal report. Study skills are emphasized.

Through the use of the basic text, the student gets an opportunity to see how the various grammatical concepts are employed by writers. Writing is emphasized throughout the year. Research writing using MLA formatting will be reinforced through the school's requirement of the senior project paper. The study of short stories, poetry, and Shakespeare is also a part of English 9.

Pre-requisite: Required  
Grades: 9  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

#### General English 10

The goal of sophomore English is to improve the student's control of the skills of communication. The development of language skills is directly related to the many educational activities involving: reading, writing, speaking, and listening. Through the reading of short stories, various novels and plays, students will develop critical thinking and writing skills.

Pre-requisite: Required  
Grades: 10  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

#### General English 11

This general course focuses on the study of American Literature and its various genres in their historical context and non-fiction selections that cover American current issues, popular culture, and political/governmental topics. Writing emphasizes informational and persuasive essays. This course also includes a review of language skills and vocabulary study.

Pre-requisite: Required  
Grades: 11  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

#### Practical Reading and Writing

This course focuses on practical reading and writing applications for college and business. Students read, discuss, and interpret various selections drawn from literature, pop culture, newspapers, and magazines and write essays, which focus on informational writing, narrative writing, and argumentative/persuasive writing. Students study and practice vocabulary, grammar, and usage and learn how to create proposals, resumes, letters of application, and college essays.

Pre-requisite: Required  
Grades: 12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Speech

Speech communication is a course which provides the necessary poise and confidence needed for college, community and/or job involvement. This skill is acquired through communicating in a variety of speech situations such as prepared speeches in class, group discussions, theater and performing arts as well as any activity, which involves interaction with others. This course is highly recommended for both the "experienced" speaker as well as the one who is "apprehensive" before a group. Due to the change in the length of the course, the credit will only be ½.

Pre-requisite: None  
Grades: 10 - 12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit

## Writing for Journalism I, II, III, IV

This elective course will contain the following components: Students will hone their skills in persuasive, informational/expository, and narrative writing. Students will learn about journalism and the mass media; students will learn the basics of interviewing, story leads, writing news stories, ethical and legal aspects of journalism, meeting deadlines, copy layout, production, and publications. Students will prepare and write a school newspaper. The newspaper production depends on tight deadlines; therefore, students who elect Writing for Journalism must be motivated to function in a fast-paced atmosphere and be willing to use some homeroom and study hall time to complete activities. Students who elect Writing for Journalism II, III, IV will earn leadership roles and will be responsible for the following: assisting first-year students, editing first-year students' articles, serving as co-editor, working with junior high writers and reporters, leading students in fund-raising activities.

Pre-requisite: A grade of C or better in previous English course  
Grades: 9 - 12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Yearbook Elective I, II, III, IV

Students will learn how to assemble and publish a yearly publication, improve writing techniques with an emphasis on style for narrative and informational pieces as well as editing techniques, improve time management skills by preparing weekly plans and meeting deadlines. Students will learn the basics of camera use and photography and will be responsible for photography at all school events. Students enrolled in subsequent yearbook courses will take on a supervisory role for students entering the program. Yearbook, II, III, IV students will continue working on writing copy, creating layouts and photo-taking techniques. Students will also be responsible for organizing and running yearbook fundraisers. Only students in Yearbook III & IV will be considered for editor positions. Class will be limited to no more than 20 students.

Pre-requisite: None  
Grades: 10 - 12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Honors English 9

This course is designed to provide an "Honors" format, literature-based, writing class. Literature may include general fiction and non-fiction. Writing is stressed throughout the year. Research writing using MLA formatting will be reinforced through the school's requirement of the senior project paper. In addition, an extensive poetry unit will be outlined. The study of drama will be emphasized as students compare playwrights. Students will be responsible for the school's morning announcements.

Pre-requisite: A grade of B or better in previous English class  
Grades: 9  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

### Composition and Literature I/Pre AP

This course is designed for the student who has mastered grammar, usage, and mechanics and who wishes to develop writing skills and gain a deeper understanding of literature. The literature selections deal with dramatic literature and nonfiction literature. Poetry, short stories, and novels are also studied. Students write in response to literature with a focus on literary analysis. At least two research projects will be required.

Pre-requisite: A grade of B or better in previous English course  
Grades: 10 - 11  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

### Composition and Literature II

Composition and Literature II is the second step in a sequential program for college-bound students. The course focuses on American literature and critical/expository writing. The literature aspect of the course is a study of the philosophies and genres of American literature from inception through the various manifestations in the modern period. Composition revolves around the formats, techniques and skills needed for writing essays and papers. Grammar and vocabulary skills will be integrated into the study of literature.

Pre-requisite: A grade of C or better in Composition/Literature I  
Grades: 11 & 12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

### Composition and Literature III/ Penn State English 15

Composition and Literature III consists of British, World and American literature selections. The course highlights representative authors, dramatic structure, themes and literary devices. Students will frequently write critical papers as well as creative and personal statements. Students will also write a well-developed research paper. Grammar and vocabulary skills will be integrated into the study of composition and literature. Students will also earn three college credits from this class.

Pre-requisite: A grade of C or better in Composition/Literature II  
Grades: 12  
Meeting: 36 weeks - 5 days per week [PS Eng 15: 18 weeks – 3 days per week]  
Credit: 1 Unit, Penn State – 3 college credits

### AP Language and Composition

This course engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. The course coaches students to write in the major patterns of writing including narration, description, process analysis, illustration/exemplification, definition, cause and effect, comparison and contrast, classification and division, and argumentation. Readings explore rhetorical purpose in writing on a variety of subjects including personal essays, public policies, speeches, popular culture, science and environmental concerns, governmental issues and imaginative literature.

Pre-requisite: A grade of B or better in a Composition course  
Grades: 11 or 12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

Note: The College Board recommends that students take AP Language before taking AP Literature

### AP Literature and Composition

This course engages students in careful reading and critical analysis of imaginative literature. Students will deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. Consideration of a work's structure, style, themes, imagery, symbolism, and tone are emphasized, and critical reading perspectives are introduced. Students will write essays of literary analysis of poetry and fiction.

Pre-requisite: A grade of B or better in a Composition course  
Grades: 11 or 12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

Note: The College Board recommends that students take AP Language before taking AP Literature

## MATHEMATICS

### Integrated Math I

This course offers students the opportunity to explore and solve mathematical problems, think critically, work cooperatively with others, and communicate ideas clearly. In the course, students will see the connections among different branches of mathematics while being actively involved in the learning process. Students will learn through visual and hands-on approaches, real-life applications, group work and open-ended problem solving. In this integrated mathematics course, many topics will be covered. Topics covered will be from various branches of mathematics such as algebra, statistics, logical reasoning/probability, and geometry, with a focus on Algebra.

Pre-requisite: A grade of D or better in General Math or Algebra I, or a grade of D or F in Algebra II  
Grades: 9-11  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

### Integrated Math II

This course offers students the opportunity to continue to explore and solve mathematical problems, think critically, work cooperatively with others, and communicate ideas clearly. Integrated Math II is a continuation of concepts covered in Integrated Math I. Students will see the connections among different branches of mathematics while being actively involved in the learning process. Students will learn through visual and hands-on approaches, real-life applications, exploratory activities and projects, use of technology, group work and open-ended problem solving. New material in Integrated Math II will include an emphasis on algebra. Other topics covered will include statistics, logical and reasoning/probability.

Pre-requisite: A grade of D or better in Integrated Math I, Geometry or Algebra II, or D or F in Trigonometry/Analytic Geometry and Teacher Recommendation  
Grades: 10-12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

### Integrated Math III

Integrated Math III helps the student develop the ability to: explore and solve mathematical problems, think critically, work cooperatively with others, and communicate ideas clearly. Topics will have an emphasis on geometry, as well as logical reasoning, measurement, probability, statistics, discrete math, and functions are interwoven throughout.

Pre-requisite: A grade of D or better in Integrated Math II or Trigonometry/Analytic Geometry and teacher recommendation  
Grades: 10-12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

### Integrated Math IV

This course is designed to teach students how to apply mathematics in a practical way. Students will focus on mathematic skills necessary for everyday activities.

Pre-requisite: A grade of D or better in Integrated Math III and teacher recommendation  
Grades: 12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Algebra I

This is a study of the basic concepts and laws of algebra. The student is encouraged to develop his or her ability to think and work in a systematic manner. The student learns to incorporate algebra into problems common to every day life situations.

Pre-requisite: A grade of C or better in previous year math class  
Grades: 9-12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Algebra II

This is a continuation of Algebra I. It involves a review of the four operations of math using Algebraic expressions, solving of equations and inequalities both mathematically and graphically. Other topics include probability, basic trigonometry and word problems. A good background in Algebra I is essential.

Pre-requisite: A grade of C or better in Algebra I or Plane Geometry  
Grades: 9-12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Plane Geometry

This course is designed to create logical thinking and to increase reasoning ability. On the basis of a few definitions, postulates, and algebraic assumptions, the student is able to develop a logical structure of established truths (theorems) that can be used to discover and prove new facts. Algebraic properties are applied in the study of angles, triangles, and other geometric figures. Geometry develops the reasoning and maturity required in higher mathematics.

Pre-requisite: A grade of C or better in Algebra I or Algebra II and teacher recommendation  
Grades: 10-12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Trigonometry/Analytic Geometry

This is a study of trigonometric function, angular and circular, and their relations and the solution of triangles. Analytic Geometry deals with the analytic approach to the discussion and application of the circle, parabolas, ellipses, and hyperbolas, and all the conic sections. This course is needed to study calculus and any other advanced mathematics courses. Other topics include matrices, vectors, and exponential and logarithmic functions.

Pre-requisite: A grade of C or better in Algebra I, Algebra II and Plane Geometry and teacher recommendation  
Grades: 11 & 12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Calculus

This course is the same course taught at the University of Pittsburgh. It is called Scientific Calculus, Calculus 0220 at Pitt. Students may receive four college credits for this course, which are transferable to most colleges. The tuition for this course, if college credit is desired, is approximately \$175; whereas if the same course would be taken at Pitt, the cost would be approximately \$545. Students will learn to both differentiate and integrate various functions and also learn applications of Calculus. Main topics covered are: limits, chain rule, implicit differentiation, differentiation of trigonometry functions, related rate problems, mean value theorem, Newtons method, Riemann Sums, vectors, areas of revolution, mass and moments, functions  $h x$  and  $e^x$  and many other topics.

Pre-requisite: A grade of C or better in Trig Anal/Geometry and teacher recommendation  
Grades: 12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Statistics

The goals of Statistics are to sensitize the students to the role statistics plays in studies that affect the daily lives of everyone and to provide the student with tools for handling data and performing simple analyses. Students can elect to receive four credits from the University of Pittsburgh upon successful completion of requirements and a satisfactory grade.

Pre-requisite: A grade of C or better in Trig Anal/Geometry  
Grades: 11 and 12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## SOCIAL STUDIES

### United States History I

This course is designed to survey the political, social and economic history of our nation from the Age of exploration through the Civil War and its subsequent reconstruction. Special emphasis is placed on the role of minority groups, the significance of the frontier, the friction with England and our subsequent struggle for independence, the Constitution and its interpretation, the westward movement, growing sectionalism and disunion and discontent. Some effort is made at achieving a new objectivity by examining varying interpretations.

Pre-requisite: Required  
Grades: 9  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

### United States History II

United States History II is concerned with our American heritage, the growth and economic development of our nation, the development of our democratic form of government, and the problems of living, which will confront the students as future citizens. The greatest emphasis is placed upon the period since the Civil War. Also, the course stresses interpretations at this level, which go beyond the pupil's previous learning in American History.

Pre-requisite: Required  
Grades: 10  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

### World Cultures

World Cultures approaches, in a systematic way, the study of Non-Western cultures throughout the world. Key concepts serve as an organizational framework. These concepts are as follows: setting and origin of the culture, region, family organization, religion, economic life, political trends, and relations with the rest of the world. These concepts are very important because they enable the student to have a more thorough understanding and a better knowledge of the world and a greater sense of the humanity of other people. Emphasis is on applying acquired knowledge to issues in those regions today.

Pre-requisite: Required  
Grades: 11  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

### Problems of Democracy/Economics

Problems of Democracy (POD) attempts to develop an understanding and an increased awareness in the student of the current political, social, personal, and international problems that they, as Americans, are faced with in a democratic society, and to give students the knowledge they need to solve these problems through clear and unbiased thinking.

## Problems of Democracy/Economics - cont'd

Economics endeavors to explain the basic principles behind our capitalistic (free enterprise) system through explanation of how goods and services are produced and distributed to fulfill the wants and needs of our society. In the course, students study such things as: an analysis of our monetary system, both past and present; what determines prices; the place and use of credit in our economy; how business cycles affect us; and the role of government forces in our economy today and in the past.

Pre-requisite: Required  
Grades: 12  
Meeting: POD - 18 weeks - 5 days per week  
Economics -18 weeks - 5 days per week  
Credit: 1 Unit

## Service Learning I

Students enrolled in this course will complete the following: plan and organize a mandatory course project, develop the ability to work effectively in cooperative learning teams, develop the capacity for problem solving and decision making, write short research projects, and maintain a journal. Full participation in the course project is necessary to pass this course.

Pre-requisite: Preference given to upperclassmen  
Grades: 9-12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Service Learning II

Students enrolled in this course will share their knowledge by assisting and leading other service learning students. Aside from advising students, the student advisors would be involved in their own projects as well as helping to organize upcoming events and instructing students new to the program.

Pre-requisite: Service Learning I and teacher recommendation  
Grades: 10-12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Service Learning III

Service Learning III students will develop projects, which are based on community need. Through the process of the projects, the students will learn based on the Pennsylvania academic standards. Students will set goals, and create a plan of action to effectively execute the project. Students will then reflect on the success of the project and celebrate the outcome

Pre-requisite: A grade of "B" or better in Service Learning I and II  
Grades: 11-12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Service Learning IV

Service Learning IV is a class where experienced Service Learning students will be a mentor and peer instructor for Service Learning I, II, and III students. Service Learning IV students will act as a liaison between Service Learning and faculty sponsors or other student organizations.

Pre-requisite: A grade of "B" or better in Service Learning III  
Grades: 10-12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Introduction to Psychology and Sociology/Penn State Psychology 100

This course is designed to study the psychological foundations of behavior, adolescence and social problems. This includes motivation, perception, learning, memory, personality, psychotherapy, social development and abnormal psychology. Emphasis will also be on understanding socialization, gender roles, race and ethnic relations, collective behavior and social movements. Students enrolled in this class will also earn three college credits.

Pre-requisite: None  
Grades: 11-12  
Meeting: 36 weeks - 5 days per week [PS PSY 100: 18 weeks – 3 days per week]  
Credit: 1 Unit, Penn State – 3 credits

## AP United States Government and Politics

This college-level course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. The topics explored in depth in the course will include the *Constitutional Underpinnings of United States Government; Political Beliefs and Behaviors; Political Parties, Interest Groups; and Mass Media; Three Branches of Government; and Civil Rights and Civil Liberties.*

Pre-requisite: A grade of B or better in previous social studies class  
Grades: 12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## SCIENCE

### Biology I

Biology as a science and its relationship to other sciences is introduced in this course. Students are exposed to major biological concepts with an emphasis on developing scientific thinking skills. The five Kingdoms, organismal biology, and cellular/molecular biology are examined through limited laboratory experiences.

Pre-requisite: Required in Grade 9  
Grade: 9 (can elect to double with Environmental Science in grade 9)  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

### Environmental Science

This course will provide students with scientific principles, concepts, and methodologies required to comprehend the interrelationships of the natural world. Students will sharpen critical thinking, decision making, and problem solving skills. Topics include: Watersheds and Wetlands, Renewable and Non-Renewable Resources, Environmental Health, Agriculture, IPM, Ecosystems and their Interactions, Threatened, Endangered, and Extinct Species, Humans and the Environment, and Environmental Laws.

Pre-requisite: Required  
Grade: 10 (can elect to double with Biology in grade 9)  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

### Biology II (Lab)

This course is designed to give more laboratory experience to the student by working individually or in groups on various types of biological problems. It consists of studies in plant and animal physiology, microbiology, and cellular/molecular biology. A background in chemistry is necessary for the cell/ molecular biology section of this course.

Pre-requisite: Completed Biology and Chemistry with a passing grade, and instructor's approval  
Grades: 11-12  
Meeting: 36 weeks - 7 classes per week  
Credit: 1 Unit

## General Chemistry

General chemistry is designed to cover the basic fundamentals of chemistry. Since for most students this is their first laboratory class, there are certain skills that must be covered to create a safe laboratory environment. Course of study will essentially cover the following topics: laboratory safety, laboratory techniques, laboratory write-ups, scientific measurements, properties and states of matter, elements, compounds, and formula writing, writing and balancing chemical equations, atomic structure, stoichiometry, acid-base chemistry and the gas laws.

Pre-requisite: A grade of D or better in Biology  
Grades: 10 & 11  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Chemistry I

This course is a faster paced, more in-depth course than General Chemistry. Students who are considering a career in any area of science, engineering or the medical field should consider taking this course. This course will cover the following topics: laboratory safety, laboratory techniques, laboratory write-ups, scientific measurement, properties and states of matter, elements, compounds, formula writing, chemical equations, atomic structure, stoichiometry, gas laws, chemical bonding, chemical periodicity, acid-base chemistry and water properties.

Pre-requisite: A grade of C or better in Biology and completed Algebra I with a passing grade  
Grades: 10 & 11  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Chemistry II (Lab)

Chemistry II is designed to provide a continuation of the study of chemistry. This course is highly lab-oriented with a major emphasis on independent study and lab projects. Areas of study shall include: review of laboratory safety and techniques, review of Chemistry I, a more in-depth look at chemical bonding, atomic structure and acid-base chemistry, equilibrium systems, redox chemistry, organic chemistry, nuclear chemistry.

Pre-requisite: Completed Chemistry I with a passing grade, and teacher recommendation  
Grades: 11 & 12  
Meeting: 36 weeks - 7 classes per week  
Credit: 1 Unit

## Physics

The emphasis of the course is the study of the principles of the fundamental laws upon which all science is based. Math skills are used to help explain these principles. Basic experimental examples are used throughout the year. The cultural value of the history of physics is made appropriate to the main goal.

Pre-requisite: A grade of C or better in both Algebra II and Plane Geometry  
Grades: 11 & 12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## AP Environmental Science

This course will provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Students will learn to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them.

Pre-requisite: A grade of B or better in the previous science class, Biology required, Chemistry recommended  
Grades: 11-12  
Meeting: 36 weeks – 7 classes per week  
Credit: 1 Unit

## HEALTH AND PHYSICAL EDUCATION

### 10th Grade Health

The senior high program offers units in the following areas of development and enrichment: (1) CPR Training, (2) First Aid Training, (3) Dangerous Habits, (4) Physical Fitness/Nutrition, (5) Drugs, and (6) Childbirth/Sexuality.

Pre-requisite: Required  
Grades: 10  
Meeting: 1 semester - 5 days per week  
Credit: .5 Unit

### Physical Education

The Physical Education Program is developed around the concept of basic physical fitness for all individuals, a feeling of being accepted as a team member, and lifetime carry-over sports. The concepts of fun and participation in all areas are regarded as essential parts of the Physical Education Program. Co-educational units are offered where appropriate, especially on the junior high level. A writing or math assignment is required as part of the physical education grade every nine weeks.

Pre-requisite: Required  
Grades: 9-11  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit

## ART

### Drawing 1

Drawing 1 is a beginning drawing class based on art history and will be a drawing only class. Students will work in a variety of mediums and develop drawing skills that will make them better artists.

Pre-requisite: None  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit

### Painting 1

Painting 1 is a beginning painting class. Students will work in a variety of mediums to develop their painting skills. This is a painting only class.

Pre-requisite: None  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit

### Sculpture 1

Sculpture 1 is a beginning sculpture class. Students will explore three-dimensional mediums to create one of a kind sculpture. A variety of mediums will be explored.

Pre-requisite: None  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit

### Mixed Mediums 1

This class will explore all aspects of art mediums. This class is for the student who wishes to explore all facets of the art world from drawing and painting to sculpture and crafts.

Pre-requisite: None  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit

### Drawing 2

Intermediate to advanced drawing. Students will continue to refine their drawing skills. Mediums include charcoal, graphite, pastels and colored pencils.

Pre-requisite: Drawing 1  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit

### Painting 2

Intermediate to advanced painting. Students will continue to develop their painting skills. Mediums include acrylic, watercolor and oil.

Pre-requisite: Painting 1  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit

### Sculpture 2

Intermediate to advanced. Students will continue to create three-dimensional forms. Advanced techniques will be explored.

Pre-requisite: Sculpture 1  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit

### Mixed Mediums 2

This class will continue to explore all aspects of art media. This class is for students who wish to explore all facets of the art world from drawing and painting to sculpture and crafts.

Pre-requisite: Mixed Mediums 1  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit

## **BUSINESS AND OFFICE TECHNOLOGY**

### Accounting I

This course is designed for students with a variety of career goals: accounting knowledge and skills needed for beginning accounting careers, for careers in related business fields, or to serve as a foundation on which to continue the study of accounting at the college level. Accounting will count as one math credit for those students electing at least one other course in the Business and Office Technology Department.00

Pre-requisite: None  
Grades: 10-12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Accounting II

This course is designed for students to build upon and enrich the basic principles learned in Accounting I and apply them to various accounting systems and methods. The student gains an insight into the operation and function of the partnership and corporate types of business enterprise.

Pre-requisite: A grade of B or better in Accounting I or teacher's approval  
Grades: 11 & 12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Spreadsheet - Semester

This one semester course will enable students to analyze data and create reports in a table format for use in business and financial applications using the Microsoft Excel spreadsheet application in the Office suite.

Pre-requisite: None  
Grades: 9 - 12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Units

## Power Point - Semester

This one semester course will enable students to design and use a presentation to supplement a speech of lecture using Microsoft Power Point in the Office suite. Power Point is a presentation graphics program that lets you create online slide shows. In addition, students will study the Microsoft Access application to create and maintain computer database management systems.

Pre-requisite: None  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Units

## Exploratory Computers

This is a required course for all freshmen which will include a nine week rotation of the following: Word, Publisher, Power Point, and Excel.

Pre-requisite: Required  
Grades: 9  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Web Page Design I

This course will provide instruction in HTML as well as provide instruction in Java Script.

Pre-requisite: None  
Grades: 10-11-12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Web Page Design II

This course will allow students to update and maintain the Western Beaver Website as well as provide an introduction to Visual Basic Programming and XML programming.

Pre-requisite: A Final Grade of B in Web Page I  
Grades: 11-12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## FOREIGN LANGUAGES

### French I

The French I course is designed to teach the basic concepts of French by means of vocabulary building and fundamental grammar points. All four language skills--listening, speaking, reading, and writing--are stressed. Meaning and communication are emphasized from the beginning and grammar points are related to their use in communication. Cultural insights provide information into different ways of thought and life in French-speaking areas of the world. Realistic activities make learning enjoyable.

Pre-requisite: None  
Grades: 9-12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

### French II

The emphasis of the French II course is also on meaning and communication. Students continue to demonstrate their skills in conversation and written expression. Grammar points relate to their use in communication. A wide variety of activities facilitate mastery of each concept. All four language skills are used. Students also gain cultural awareness of the French people of the world.

Pre-requisite: A grade of C or better in French I  
Grades: 10-12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

### French III

This course provides the means for further development of communication and writing skills. New vocabulary related to topics is presented in a variety of reading passages and conversations. Continued study of grammar-related topics will increase the student's ability to express himself/herself in many different areas. Realistic settings for activities make learning relevant.

Pre-requisite: A grade of C or better in French II  
Grades: 11 & 12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

### French IV

This course continues the on-going process of building all language skills. At this level, students should be able to use their acquired knowledge from the three previous years in developing additional proficiency in the language skill areas.

Pre-requisite: A grade of C or better in French III  
Grades: 12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

### Spanish I

The curriculum in Spanish I is designed around the five areas addressed by the National Foreign Language Standards: Communication (speaking, listening, reading, writing, and using gestures), Cultures (gaining knowledge and understanding of other cultures), Connection (making connections with other disciplines and using Spanish to acquire new information), Comparisons (developing insight into the nature of Language and Culture), and Communities (whenever possible, participating in multilingual communities at home in our community and around the world). There is a heavy focus on understanding the grammar and structure of the Spanish language. There is also a large emphasis on pronunciation and speaking. Students who enroll in the course are expected to actively participate in speaking activities, role-playing and many other communicative activities. Students who enroll in Spanish should have a good grasp of English grammar. The Spanish I curriculum focuses on the Present Indicative tense. It is recommended that only students who have earned a C or above in English enroll in this course.

Pre-requisite: None  
Grades: 9-12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Spanish II

The curriculum in Spanish II builds on what was learned in Spanish I. The curriculum is also designed around the five National Foreign Language Standards. More vocabulary will be introduced and used in combination with the Present Indicative tense. The students will learn to use the Preterit tense (The past tense.) Students will also learn how to give directions and informal commands. Time will be spent developing speaking skills, writing skills, reading comprehension, vocabulary development, and listening skills. Students will strengthen their ability to know how, when and why to say what, to whom.

Pre-requisite: A grade of C or better in Spanish I  
Grades: 10-12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Spanish III & IV

The curriculum in Spanish III and IV builds on what has been learned in previous years of study. The students will read short stories and a short novel in Spanish, write short stories in Spanish, engage in long dialogues and interviews, discuss cultural topics in Spanish and English, increase their vocabulary through reading and vocabulary building activities. The course pushes the students to develop the ability to learn independently and to use Spanish creatively. Students will use all grammatical forms used in Spanish I and II and will begin to use the Imperfect Indicative (a past tense that expresses habitual or continuous action). The students will also use the subjunctive mood, the imperative, and the future tense.

Pre-requisite: A grade of C or better in Spanish II  
Grades: 11 & 12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## FAMILY AND CONSUMER SCIENCE

### Contemporary Foods - semester

This course is designed to allow students to explore contemporary food issues through classroom activities, theory, and labs. Some topics covered will be: microwave techniques, convenience foods, specialty appliances, and nutritious snacks, eating out and dining etiquette. Hands-on experience will be emphasized, but students will also be evaluated on their class participation and written work.

Pre-requisite: None  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Units

### Foods for a Healthy Life - semester

This course is designed to provide students with necessary skills to plan and prepare meals throughout the life span. Some topics covered will be: nutritious meals, heart-healthy foods, feeding young children, special diets (low fat, low salt, low cholesterol), nutrition for fitness and weight control. Family nutritional needs will be the main focus. Students will learn budgeting and time management skills. Hands-on experience will be emphasized, but students will also be evaluated on their class participation and written work.

Pre-requisite: None  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Units

## Textile Arts - Semester

This course is designed as a basic textile and sewing course and will combine the study of sewing machine procedures with practical sewing skills. Each student will be required to purchase and complete his/her own project.

Pre-requisite: None  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Units

## MANUFACTURING AND CONSTRUCTION

### Construction I

This course is for students who have a special interest in woodworking. Students will begin with a brief review of reading and executing accurate measurements and technical drawings from 7th and 8th grade Technology Education. Safety and correct operating procedures for hand tools and machines will also be emphasized and reviewed at all times. Students will be exposed to proper use of hand, machine, and power tools necessary to shape and construct wood. In this course, a specific project chosen by the instructor will be required to demonstrate basic mastery of the tools and techniques necessary to manipulate the material into a finished product. Students will be evaluated on their attainment of skills for each machine or technique, demonstration of progress in their skills and workmanship, and evidence of time management in the completion of their projects.

Pre-requisite: None  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit

### Construction II

In this extension of the level one course, students will continue to develop the basic skills necessary to manipulate wood into a finished project. Proper use of hand, machine and power tools as well as safety is emphasized. Specific projects chosen by the instruction are required to demonstrate a mastery of the tools and techniques discussed. Students will be evaluated on their attainment of skills for each machine or technique, demonstration of progress in their skills and workmanship, and evidence of time management in the completion of their projects.

Pre-requisite: A grade of "D" or better in Construction I  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit

### Construction III

In this more advanced course, students will continue to build on their experiences and knowledge in woodworking. Proper use of new tools and machines as well as more advanced techniques will be introduced to add to the students' abilities to manipulate wood. One or more projects chosen by the instructor will be required to demonstrate mastery of these tools and techniques. Safety and proper operating procedures will continue to be stressed. Students will be evaluated on their attainment of skills for each machine or technique, demonstration of progress in their skills and workmanship, and evidence of time management in the completion of their projects.

Pre-requisite: A grade of "D" or better in Construction II  
Grades: 11-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit

### Construction IV

In this extension of the third level course, students will continue to expand their knowledge base of new tools and machinery as well as the ability to execute more advanced techniques. Proper use of hand, machine, and power tools as well as safety will continue to be emphasized. Specific projects chosen by the instructor are required to demonstrate a mastery of the tools and techniques discussed. Time permitting, independent projects of a small scale may be incorporated. Students will be evaluated on their attainment of skills for each machine or technique, demonstration of progress in their skills and workmanship, and evidence of time management in the completion of their projects.

Pre-requisite: A grade of "D" or better in Construction III  
Grades: 11-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit

### Manufacturing I

This course is for students who have a special interest in metalworking. Students will begin with a brief review of reading and executing accurate measurements and technical drawings from 7<sup>th</sup> and 8<sup>th</sup> grade Technology Education. General safety in the shop and tool and machine safety will be emphasized and reviewed at all times. During this one semester course, the student will complete two main metalworking projects. The first will be a sheet metal tool tray and the second will be an aluminum nameplate and hanger. Through these projects, the student will be exposed to the proper use of hand, machine, and power tools that are necessary to shape and form metal. The student will be assessed not only on participation, but on their ability to use the tools and techniques to manipulate the material into a finished project.

Pre-requisite: None  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit

### Manufacturing II

In this course, students will continue to build on their experiences and knowledge of metalworking. General safety in the shop and tool and machine safety will be emphasized and reviewed at all times. Proper use of additional tools and machines as well as more advanced techniques will be introduced to add to the students' abilities to work with metal. During this one semester course, the student will complete two main metalworking projects. The first will be a sheet metal project and the second will be an aluminum foundry project. The student will be assessed not only on participation, but on their ability to use the tools and techniques to manipulate the material into a finished project.

Pre-requisite: A grade of "D" or better in Manufacturing I  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit

### Manufacturing III

This advanced course is for students who show a serious interest in developing their skills in metalworking. General safety in the shop and tool and machine safety will be emphasized and reviewed at all times. Emphasis will also be placed on demonstrating the ability to produce quality work that shows further development of their skills. In this one semester course, the student will either be involved in a class project that necessitates teamwork to complete or will develop and execute a project independently. The development and progress of all projects will be monitored by the instructor. The number of projects will be discussed with the instructor and determined by the difficulty of the projects to be completed.

Pre-requisite: A grade of "D" or better in Manufacturing II  
Grades: 11-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit

## Manufacturing IV

This advanced course is for students who show a serious interest in developing their skills in metalworking. General safety in the shop and tool and machine safety will be emphasized and reviewed at all times. Emphasis will also be placed on demonstrating the ability to produce quality work that shows further development of their skills. In this one semester course, the student will either be involved in a class project that necessitates teamwork to complete or will develop and execute a project independently. The development and progress of all projects will be monitored by the instructor. The number of projects will be discussed with the instructor and determined by the difficulty of the projects to be completed.

Pre-requisite: A grade of "D" or better in Manufacturing III  
Grades: 11-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit

## Technical Drawing I

Young men and women enrolled in Technical Drawing I will be exposed to numerous exercises designed to strengthen their ability to visualize and think in three dimensions. A thorough coverage of sketching and instrument drawing techniques will be provided in order to produce concrete examples of the visualization process. Major topics will include: 1) multiview projections, 2) sectional views, 3) shop processes, 4) dimensioning, 5) threads and fasteners, 6) isometric projections, 7) oblique projection. These topics will also be explored using computer-aided drafting software. In all their endeavors, students in this course of study will be urged to attain accuracy, speed, legibility and neatness.

Pre-requisite: None  
Grades: 9-12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## Technical Drawing II & III

Technical Drawing II is designed for more serious students who have successfully completed the requirements of Technical Drawing I. Young men and women will be asked to build upon their initial drawing experience and explore more diverse and complicated drafting applications. Emphasis will be placed on self-motivation and time management. Unlike the structure of Technical Drawing I, these students will have to independently delve into varied resources in order to reveal solutions. Major topics will include 1) auxiliaries, 2) revolutions, 3) tolerancing, 4) perspectives, 5) intersections 6) gearing, 7) welding representation, 8) architectural drawing, and 9) premium use of the computer-aided drafting resources.

Pre-requisite: A grade of C or better in Technical Drawing I  
Grades: 10 & 12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

## MUSIC

### Band

The Band is a year long course, which includes concert band, pep/jazz band, and marching band. The band is a musical organization open to any student who possesses the talent to play or the ability to learn a band instrument. Music instruction will be provided as scheduling permits.

JUNIOR HIGH BAND is a scheduled class that consists of seventh and eighth grade musicians. The aim is to develop the students' musical and technical ability through a wide range of music styles. Students entering the Band program in seventh grade must be fully aware of the requirements and demands that a successful performing ensemble entails.

HIGH SCHOOL BAND is a scheduled class that consists of members in grades 9, 10, 11, & 12. This is a performance-oriented ensemble, which provides students with instruction in the creative and analytical elements of music. Participation in High School Band is granted one credit per year.

JUNIOR HIGH and HIGH SCHOOL BANDS combine for Winter and Spring concert performances and after school rehearsals. Band rehearsals meet daily, and practice at home is strongly recommended. In addition, there are scheduled "after-school" rehearsals and performances. Band members must own their primary instrument and be responsible for the maintenance of their own instrument, music and uniform. School instruments are issued on an as-needed and availability basis, and only after the student has demonstrated a track record of responsibility, dependability, and musicianship. Fund raising efforts are required of all students participating in any aspect of the Band Program.

PARTICIPATION IN MARCHING BAND is required for students in grades 9 - 12. Musicians in grades 7 & 8 who possess the ability and desire to participate must satisfactorily complete an audition in order to participate in Marching Band. The Marching Band will attend band camp in August and perform at Varsity Football games, parades, and other events.

In addition to Marching Band, students in grades 8-11 may audition for next year's Band Front. Band Front members participate in all Marching Band activities and will be awarded 1/4 credit (grades 9-12).

All members are required to attend all after school rehearsals and performances, as part of the grade. Members are encouraged to participate in Pep Band, which performs at several home basketball games, Jazz Band, Brass and Woodwind Ensembles, Indoor Guard, and other groups which exist at different times during the year, not as part of the Band credit. Extra rehearsals may be called at the discretion of the Band Director.

Pre-requisite: Ability to perform with a band instrument  
Grades: 7-12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit (Grades 9-12 only)

### Instrumental Methods

Students will be given the opportunity to have individualized instruction on their instrument. Students may also use this individual time to learn an additional instrument. This class will also include a study of musical elements.

Pre-requisite: Instructor's approval  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit (Grades 9-12 only)

### Music Theory & History

This course will provide a study of fundamental musical elements. Students will also study the history of music from medieval music to 21<sup>st</sup> Century music.

Pre-requisite: Instructor's approval  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit (Grades 9-12 only)

### Music Technology

Students will have the opportunity to study the construction of music through electronic means. Students will use technology to create music, learn music editing, and explore the various types of music technology available today.

Pre-requisite: Instructor's approval  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit (Grades 9-12 only)

### Percussion Ensemble

Students will have the opportunity to learn how to play traditional and non-traditional percussion instruments. There will be performance opportunities for this ensemble. This course will be open to any student enrolled in grades 9 through 12 regardless of prior percussion experience.

Pre-requisite: Instructor's approval  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit (Grades 9-12 only)

### Jazz Band

Students will explore, discuss, and perform various types of jazz music. Students must be able to play a jazz instrument (saxophone, trumpet, trombone, piano, bass, jazz guitar, or drum set) to participate in this class. This ensemble performs at concerts and various local events.

Pre-requisite: Instructor's approval  
Grades: 9-12  
Meeting: 18 weeks - 5 days per week  
Credit: .5 Unit (Grades 9-12 only)

### Chorus

This course is offered to boys and girls in grades 9-12. Proper use of the voice and understanding music notation are taught. Opportunities are provided to sing and interpret all types of musical literature. Opportunities to perform for the school and community are part of the learning experience. Attendance at concerts is required as part of the grade.

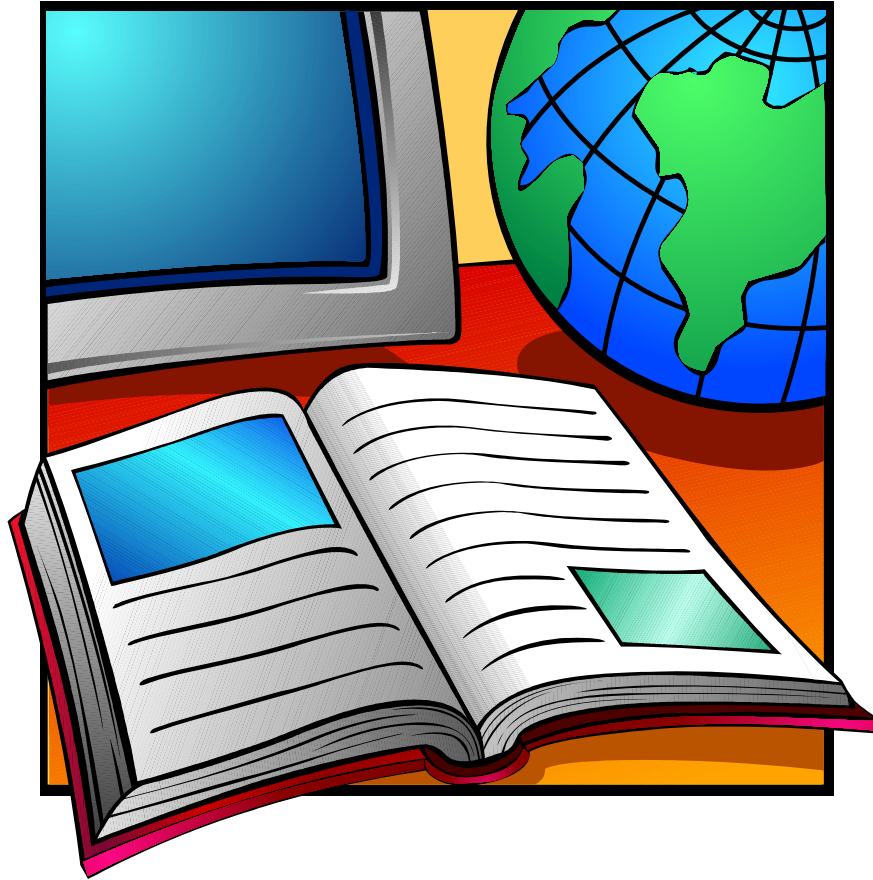
Pre-requisite: None  
Grades: 9-12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

### Fine/Performing Arts – Formerly Theatre Arts

This course enables students to develop an understanding and appreciation of the theater in general, with specific emphasis on the acting component. Students learn a knowledge base of the theater as an art, and use that knowledge in developing an interest and talent in acting to practice that art.

Pre-requisite: None  
Grades: 9-12  
Meeting: 36 weeks - 5 days per week  
Credit: 1 Unit

# **WESTERN BEAVER HIGH SCHOOL**



## **2009/2010 COURSE DESCRIPTION BOOKLET GRADES 8, 9, 10, & 11**