

# **MONTROSE AREA SCHOOL DISTRICT**

**2005-2006 SCHOOL YEAR**

**MONTROSE AREA JUNIOR/SENIOR HIGH SCHOOL ADMINISTRATION**

**DOUGLAS WILCOX, PRINCIPAL  
MICHAEL BEAMISH, ASSISTANT PRINCIPAL**

## **MESSAGE TO STUDENTS AND PARENTS:**

Selection of courses is probably one of the most important decisions that students and parents undertake. This course selection guide represents the course offerings of the Montrose Area Junior/Senior High School. It is important that you and your parents review the materials in this booklet. Since it is not possible in these few pages to answer all the concerns you may have when planning a secondary program, students and parents are urged to utilize the Guidance Department to obtain additional information and the answers to various questions.

Scheduling decisions should be made carefully after an examination of past achievement, ability levels, special interests and any other information, which will assist in making wise decisions. Students naturally turn to parents, teachers, and counselors to obtain direction and guidance in making these difficult decisions. Part of the value of course selection is in learning to make decisions based on careful planning. Courses should be scheduled as part of a continuing program rather than as individual courses taken in isolation. CAUTION! Selections should be given careful consideration. They will be binding for the entire school year.

There is a program of studies available at the Montrose Area Jr./Sr. High School designed to serve each student. The opportunity for a progressive educational program is available to help each student prepare for the future.

We hope that each of you will find this booklet helpful in making these decisions about your future and encourage you to utilize your Guidance Counselor as you make these decisions.

Douglas Wilcox  
High School Principal

Montrose Area School District operate as an equal opportunity institution and will not discriminate on the basis of race, national origin, religion, gender, marital or family status, age, or disabling condition in its activities, programs, or employment practices as required in Title IX of the Educational Amendments of 1972, Section 504 of the Rehabilitation Act of 1993, and the Americans with Disabilities Act (ADA of 1990). For information about your rights or grievance procedures contact Mrs. Carla Winters, Title IX Coordinator or Dr. Donald Golden, Section 504 Coordinator at 80 High School Road, Montrose, PA 18801 or (570) 278-3731.

## **GUIDANCE SERVICES**

The Guidance Department at Montrose Area Junior/Senior High School endeavors to serve you by assisting in the development of your educational and vocational planning. You should know yourself if you are to plan wisely. This "self-understanding" is a process, which continues into adulthood.

Through critical self-analysis, test interpretations, interest inventories, participation in extra-curricular activities, vocational and educational information and counseling, the process of self-understanding evolves.

Specific courses are required for graduation. Students are required to take a full load of courses (7 plus physical education). There are a wide variety of subjects from which choices may be made. It is important that each student have a purpose in mind as they plan their high school schedule. The scheduling process used at Montrose Area Jr./Sr. High School is designed to aid in that planning.

You and your parents are encouraged to meet with the counselors to discuss future plans. Call the Guidance Office at (570) 278-6253 to make an appointment.

Guidance Counselors are assigned to students as follows:

Mary Beth Ohmnacht	Grades 11 & 12	570-278-6231
Angela Nebzydoski	Grades 9 & 10	570-278-6233
Katherine Oehler	Grades 7 & 8	570-278-6235

## **PROGRAM PLAN**

Students are expected to plan a program of courses to go from grade 9 to graduation. Counselors will schedule conferences with students to help them develop this plan. Guidelines to be used in selecting courses are:

1. Select as challenging a program of studies as can be handled successfully.
2. Select courses which will be suitable to your needs and abilities.
3. A required student load is seven majors plus minors and lab period.
4. Study halls must be at a minimum.

## **THE THREE CURRICULUM TRACKS**

1. College Preparatory - Preparation for education after graduation
2. Vocational Education - Co-op, Vo-Tech, School-to-Work
3. General Education - Preparation to work in industry and society.

## **COURSE DROP / ADD POLICY**

Selecting, pursuing, and dropping courses are serious matters, which affect both a student's education and the total school due to variations in enrollment.

1. The procedure to drop a course is as follows: Initially, a student must gain permission for a drop of class from the classroom teacher. **All drops are to be initiated by the classroom teacher.** The teacher will then take that concern to the guidance counselor for their approval, who in turn will contact the principal. No changes will take place without prior approval from the classroom teacher, guidance counselor, and principal.

2. **No students may enter a new course after the second week of the course unless approval is obtained from the guidance counselor, principal, and classroom teacher.** This does not apply to transfer students new to Montrose High School.

**ALL COURSE CHANGES MUST BE INITIATED THROUGH THE CLASSROOM TEACHER, GUIDANCE COUNSELOR, AND PRINCIPAL. NO CHANGES MAY BE MADE WITHOUT AUTHORIZATION.**

## **GRADE RECOMMENDATIONS**

It is recommended that a grade of at least 71 be achieved in all academic courses before proceeding to the next sequential level of study. It is the counselor's responsibility to make students aware of this recommendation.

**A 68 is the lowest passing grade.** Although a grade of 68 - 70 will allow credit toward the fulfillment of graduation requirements, it will result in the strong recommendation that the student discontinue study if in a sequential subject or repeat the course.

## **ADVANCED PLACEMENT COURSES**

The minimum grade requirement for enrollment in an Advanced Placement course is 91 in previous College Preparatory curriculum, i.e., to be enrolled in Advanced Placement European History you must receive at least a 91 in 9th and 10th grade C. P. History. Teacher recommendation will also be required for enrollment in the A. P. curriculum. **Advanced Placement classes will be limited to an enrollment of 15. Students enrolled in an Advanced Placement curriculum are also required to take at least one of the Advanced Placement National Exams.** For example, if you are enrolled in 3 A. P. courses you must take at least one of the exams for the courses in which you are enrolled, if you are in 1 A. P. course you must take that National Exam. The cost for each A. P. Exam was \$82.00 in 2005. **Advanced Placement courses will receive an additional weight of 6% on the student's Grade Point Average.**

## **HONORS COURSES**

Honors courses have been introduced in Math and English. Student placement in honors courses will be made by teacher recommendation. Honors courses will receive an additional weight of 3% on the student's Grade Point Average.

## PRE-SCHEDULING

Senior high students (grades 9 through 12) MUST fill their schedule with a MINIMUM of seven (7) full course periods per week plus physical education. **This is especially important considering the 25-credit requirement for graduation.**

There are 9 periods in the school day with 1 being used for lunch – leaving 8 periods for scheduling classes. Course offering may change based on the completion of the final budget process.

CAUTION - THESE SELECTIONS SHOULD BE GIVEN CAREFUL CONSIDERATION. THEY WILL BE BINDING FOR THE ENTIRE SCHOOL YEAR. **ONCE THE SCHEDULE IS COMPLETED, CHANGES ARE DIFFICULT TO ACHIEVE AND RESULT IN UNDERENROLLMENT OR OVERENROLLMENT CLASSES.** GREAT CARE MUST BE TAKEN IN PRE-SCHEDULING. THOSE COURSES WITH FEWER THAN 10 STUDENT REQUESTS MAY NOT BE OFFERED EVERY YEAR.

### REQUIREMENTS FOR GRADUATION HIGH SCHOOL CREDIT - GRADES 9 - 12

A minimum of 25 credits is required for graduation and they must be earned from the 9th grade through graduation.

<u>Subject Area</u>	<u>Units of Credit</u>
English	4
Mathematics	3
Science	3*
Social Studies	4
Physical Education	1
Health	.5
Computer	.5
Family & Consumer Science	.5
Driver Education	.2
Elective Credits	<u>8.5</u>
<b>Total credits required for graduation</b>	<b>25</b>

\* All students in grades 9-12 must successfully complete requirements in Earth Science, Biology, Chemistry, and Physics. Advanced Physical Science will meet the Chemistry and Physics requirements for those students who opt to not take separate courses in Chemistry and Physics.

**A graduation project will be required for all graduating seniors.**

Montrose Area Jr./Sr. High School operates on a 180-day calendar of 30 cycles, with each cycle 6 days long.

Course credit is computed on the following basis:

One year Course which meets 180 days for 40 minutes/day equals a total of 118 hours = 1 credit.

Example: English meets 6 days per cycle = 180 day = 126 hours = 1 credit

Physical Education meets 2 days per cycle = 180 days = 42 hours = .3 credit

One semester courses meet for 90 days = 60 hours = .5 credit

## REQUIRED COURSES

Three planned courses are required to be taught to all students EVERY YEAR.

1. English
2. Physical Education
3. Social Studies

The following planned courses are required to be taught to all students during the secondary grades (7 through 12).

- |                               |   |
|-------------------------------|---|
| a. Mathematics                | 5 courses                                   |
| b. Science                    | 5 courses                                   |
| c. Art                        | *2 courses                                  |
| d. Music                      | *2 courses                                  |
| e. Family & Consumer Sciences | *2 courses                                  |
| f. Technology Education       | *1 course                                   |
| g. Reading                    | *1 course                                   |
| h. Health                     | *2 courses                                  |
| i. Environmental Education    | *1 course                                   |
| j. Library Skills             | *1 course at each level (Jr. High/Sr. High) |
| k. Driver Education           | *1 course                                   |
| l. Computer                   | *1 course                                   |

(Environmental Ed. & Library Skills may be taught within other courses)

\* May be offered as fractional planned courses, which may be a minimum of 30 hours each.

## DEFINITIONS

**ARTS** - Arts including Visual Arts, Music, Dance, Theater, Film, Practical Arts, and Crafts.

**HUMANITIES** - Subjects that include Literature, Languages, History, Philosophy, additional courses in English and Social Studies.

**APPROVED VOCATIONAL EDUCATION COURSES** - Courses of vocational education at an approved vocational school, approved cooperative education program, approved work-study program.

**APPROVED COURSES** - which have been adopted by the Board of School Directors of the Montrose Area School District as courses, which may be used to meet graduation requirements if taken in grades nine through twelve. Courses may be used only once for credit.

## APPROVED PLANNED COURSES

<b>ENGLISH</b>	4 Credits	A.P. English 11, 12 C.P. English 11, 12 English 9,10,11,12 Honors English 9, 10
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<b>SOCIAL STUDIES</b>	4 Credits	U.S. History II (C.P., Regular) U.S. History III (C.P., Regular) Modern World History (C.P., Regular) A.P. Government A.P. European History American Govt./Economics (C.P., Regular)
<b>MATHEMATICS</b>	3 Credits	Algebra I, Algebra I A Geometry (Honors) Algebra II (Honors) Algebra I B Algebra 2 Algebra 3 and Basic Trig Informal Geometry Trig/Adv. Math Calculus A.P. Calculus Discrete Math/Statistics Applied Math I & II
<b>SCIENCE</b>	*3 Credits	Earth Science Biology (C.P., Regular) A.P. Biology Chemistry, A.P. Chemistry, Physics, Advanced Physical Science

**\*Reminder: All students in grades 9-12 must successfully complete requirements in Earth Science, Biology, Chemistry, and Physics. Advanced Physical Science will meet the Chemistry and Physics requirements for those students who opt to not take separate courses in Chemistry and Physics.**

**PHYSICAL EDUCATION**                      1 Credit  
Adaptive Physical Education 7, 8, 9, 10, 11, 12  
Physical Education 9, 10-required curriculum.  
Physical Education 11, 12-required elective choices.

Field Hockey/Wrestling/Badminton  
Weight Training/Aerobics/Tennis  
Lacrosse/Fencing/Modern Dance  
Cross Country/Square Dancing/Ultimate Frisbee  
Flag Football/Bowling/Softball  
Archery/Volleyball/Golf  
Soccer/Basketball/Hardball  
Speedball/Gymnastics/Track and Field  
Fitness Walking/Step Aerobics/Line Dancing  
Self-defense/New Games/Small Games  
Orienteering/Floor Hockey  
CPR (Seniors only)

<b>HEALTH</b>	.5 Credit	Health 10, Advanced First Aid
<b>DRIVER ED</b>	.2 Credit	Driver Ed. Classroom instruction
<b>COMPUTER</b>	.5 Credit	Intro to Microcomputer Applications

**ELECTIVES** 8.5 Credits

**ARTS**

Foundations of Art: 1, 2, & 3	Advanced Studio Problems
Wood Tech: Intro., Advanced	Intro to Microcomputer Applications
Mechanical Drawing: Intro., Advanced	Architectural Drawing
Foods: Intro., Advanced	Women's' Issues
Life Skills	Child Development: Intro., Advanced
Co-op Vocational Education	Vocational Technical School Program
Metal Tech: Intro., Advanced	Music Literature
Music Theory	Symphonic Band
Concert Choir	Intro to Music Technology
Concert Choir/Symphonic Band	Graphic Arts
Family & Consumer Science	

**HUMANITIES**

Psychology  
Journalism

**COMPUTER SCIENCE**

Computer Science I  
Computer Science II  
Intro to Computer Programming & Web Page Design

**FOREIGN LANGUAGES**

Spanish I, II, III, IV    French I, II, III, IV  
German I, II, III

**BUSINESS**

Intro to Business	Word Processing I
Accounting I, II	Adv. Word Processing
Business Law (Grade 12)	Data Processing I, II
Microcomputer Application	Yearbook Journalism
Computer Repair	

**MATHEMATICS**

Algebra I	Algebra 3 & Basic Trig
Algebra I A	Applied Math I AND II
Algebra I B	Informal Geometry

Geometry (Honors)  
Algebra II (Honors)  
Algebra 2

Trig/Adv. Math  
Calculus  
A.P. Calculus  
Discrete Math/Statistics

## **SOCIAL STUDIES**

A.P. European History  
Psychology

A.P. Government

## **SCIENCE**

A.P. Biology  
Chemistry  
A.P. Chemistry

Physics  
Advanced Physical Science

## **COURSE DESCRIPTIONS**

### **ENGLISH**

**ENGLISH - 010 - GRADE 7** - This first course in secondary English places emphasis on comprehension skills, reading for evident and implied meanings, drawing inferences, making deductions, and logical reasoning. Other points of development include basic techniques in grammar, usage, and mechanics of English. Ample practice is provided for clarity of expression in both writing and speaking. An introduction to literary forms in both fiction and nonfiction areas is part of the program.

**READING - 013 - GRADE 7** - Reading for enjoyment is stressed in the 7th grade reading curriculum. Reading strategies, study strategies, and some library skills are taught.

**ENGLISH - 016 - GRADE 8** - The English course in the eighth grade level is composed of a review of seventh grade grammar, the teaching of additional facets of rhetoric, usage, sentence structure, and spelling and vocabulary. Practical application of the student's knowledge of grammar is utilized in written compositions, which include informational, narrative, and persuasive. Speaking in front of a group is an important part of the program. Fiction, nonfiction, poetry and some plays are used.

**ENGLISH -100 - GRADE 9** - This course involves a study of grammar to help the student write more mature sentence structures correctly i.e. the study of phrases, clauses, and usage. The literature unit is divided into the study of the short story, poetry, and drama. The reading and interpretation of literature is handled in a more mature fashion than that of the lower grades. The writing unit deals with varied sentence structures, good paragraph development and the development of a thesis.

**ENGLISH - 103 - GRADE 10** - The tenth year English curriculum enlists the four communication skills of reading, writing, speaking, and listening. A vocabulary program enhances the students' reading, writing, and spoken vocabularies. Students will be introduced to MLA style for presenting research. The study of composition is emphasized through the teaching of writing as a step-by-step process. The approach to

literature is thematic, drawing from a variety of genres, and includes major works such as To Kill a Mockingbird and Julius Caesar.

**ENGLISH C.P. - 106 - GRADE 11** - A survey of American literature forms the basis of this year's work. Detailed attention is focused on comprehension, interpretation, evaluation, and appreciation of what is read. Vocabulary studies, literary techniques and movements, and development of critical facilities all open the way to mastery of college preparatory work. Composition skills and a general review of mechanics are given attention.

**ENGLISH - 107 - GRADE 11** - A survey of American literature forms the basis of this year's work. Emphasis is placed on definition and recognition of literary terms, incidental vocabulary, spelling, oral reading, and literary movements.

**ENGLISH C.P. - 109 - GRADE 12** - A survey of English literature and additional reading is required. Emphasis is placed on composition skills, including sentence structure, paragraphing, word choice, mechanics, and vocabulary development.

**ENGLISH - 110 - GRADE 12** - This course includes a study of literature. Additional reading is required as well. Compositions are assigned to encourage clear thinking and the development of individual style. A grammar review is also included.

**A. P. ENGLISH - 112 - GRADE 11 - 113 - GRADE 12** - A.P. English is for those students who are planning to take the A.P. Examination in their senior year. Close examination of representative classic novels, poems and plays is the basis of the course. Weekly writing assignments, vocabulary study, class participation, outside reading and extensive use of library skills is emphasized. Students may, at their own expense, take the A.P. Exam at the end of the year, which may result in three, or six college credits. This class will be offered in one or two levels depending on demand. Students may have to fulfill additional requirements to enroll in this course.

**JOURNALISM - (elective) - 115 - GRADES 9/10/11/12** – This course is for students who like to write and are interested in improving their writing skills. Specific areas to be emphasized include media law and ethics, researching, interviewing, news and feature writing, sports writing, photography, layout and design, and copyediting. Through the production of the school newspaper, the *Meteor Chronicle*, students will learn how to develop a story through research and interviews and how to meet deadlines and manage time. Students will learn the importance of individual responsibility as well as teamwork.

**ADVANCED JOURNALISM - 114 - GRADES 10/11/12** – For students who have successfully completed Journalism. This course is for students who are interested in improving their writing by building on the skills learned in Journalism 115. The same areas emphasized in the first-year course will be stressed in this course but on a more in-depth level. Students will continue to work on the *Meteor Chronicle*, but advanced students will also serve in editorial positions on the newspaper staff.

**ESL PROGRAM** – (must qualify for program) The English as a Second Language Program is to develop academic literacy and oral skills through a reading, writing, speaking and listening program. The students read, write and discuss the content of their regular education classes. The students are learning language through content. The goal of the program is to help the students develop critical thinking skills as well as written and oral communication skills.

SEE COURSE SEQUENCE CHART IN THE BACK OF THE COURSE SELECTION GUIDE.

## **BUSINESS**

**KEYBOARDING – 046 – GRADE 7** - This course meets for 45 days, emphasizing keyboarding skills.

**COMPUTER PRODUCTION – 019 – GRADE 8** – This course meets for 45 days, emphasizing the review of the 7<sup>th</sup> grade computer course. Students will develop projects utilizing Microsoft word.

**INTRO TO BUSINESS – 200 – GRADES 9/10/11/12** – Emphasis in this course is placed on the purpose of business in an economic system. Areas such as production, consumption, spending, credit, personal budgeting, banking and insurance are emphasized. An attempt is made to help students acquire an effective business vocabulary. Effort is also directed to helping freshman decide what business courses will most benefit them in the following three years of high school education. Therefore, incorporated into this course will be a short introduction to accounting and data processing.

**WORD PROCESSING I – 201 – GRADES 10/11/12** – This entry level course begins with an in-depth review of Microsoft Word basic formatting of word processing documents. The students will develop competency in completing reports, letters, memorandums, and tables that highlight features such as editing, rearranging of paragraphs, spell checking, outlining, footnoting, and redrafting through the use of the thesaurus. The mastery of specialized software in Microsoft Word enables the students to work effectively in a computerized word processing environment which impacts on correct document production for other school curricula, as well as this applications class.

**ADVANCED WORD PROCESSING - 202 - GRADES 10/11/12** - The second in the Word series, this course is designed for students who want to improve their word processing capabilities through more involved assignments. They will practice and produce final drafts of customized paragraphs with correct page formatting. Other emphases include the setting and tailoring of tabs; creating and editing tables; and the exploring of headers, footers, footnotes, page and section breaks, as well as the incorporating of grammar and thesaurus features, to facilitate thoughtful and accurate communication. Once again, other curricular demands will drive individual assignments to underscore the value of this applications class.

**ACCOUNTING I – 205 – GRADES 10/11/12** – This is an entry-level course for vocational record keeping. The course begins with the basics of accounting and covers the total financial period including all steps in the accounting cycle: opening, recording, entries, posting, and closing. Special work will be done on payroll systems, depreciation, and time permitting, partnership, and corporations. All work is completed exclusively on the computer.

**ACCOUNTING II – 206 – GRADES 11/12** – This course is for the student who desires advanced work in the field of accounting. The course will begin with a review of basic procedures of bookkeeping. The student will study the purpose as well as the

method of each structure including department accounting, bad debts, depreciation, prepaid and accrued income and expense, partnerships, control systems, taxes, notes and drafts, corporate accounting, and cost management. All work is completed exclusively on the computer.

**DATA PROCESSING I -207 – GRADES 10/11/12** – This is a first year course that introduces the student to the concepts of designing, building and working with data files. Students will learn the use of Filemaker Pro database. They will learn to solve business problems through the use of data base manager programs. They will learn to select records, sort files, do calculations and prepare data base reports. They will do this in a context of business problems such as accounts receivable/payable, inventories and payrolls. The use of Power Point in business situations will be covered. The use of Microsoft excel and its charting functions will also be covered.

**ADVANCED DATA PROCESSING – 208 – GRADES 11/12** – This course is for students who have completed Data Processing I. This class will cover advanced data structure, including query systems, sort and select functions, writing calculations and summations and detailed report preparations. Filemaker Pro is the program used in this class.

**INTRODUCTION TO MICROCOMPUTER APPLICATIONS - 413 - GRADES - 9/10/11/12** - This course teaches the student to use a personal computer and its software. Students will be required to demonstrate an ability to work fluently in a Microsoft Windows environment. Students will use Microsoft Word to create memos, letters and reports (MLA) and utilizing letterhead stationary. Microsoft Excel spreadsheets will be incorporated to teach simple calculations (add, subtract, multiply, divide and auto sum) and create basic graphs. Students will demonstrate an ability to build a database that includes both text and numeric fields. Within these databases, students will be required to use and understand characters, fields, records and files as well as generate reports that demonstrate knowledge of record selection and sorting. Filemaker Pro is the program used. PowerPoint will be used to create a presentation that includes slide design, insertion of graphics and sounds, and automatic slide transitions and timings. This course will meet everyday for half a year and will count as 0.5 credits. **All students must schedule this course during their 9<sup>th</sup> grade year.**

**BUSINESS LAW – 209 – GRADES - 11/12** – This course studies the historic development of the American legal system, including criminal and civil law. The presentation of this one-year course includes the areas of history, contracts, insurance, sales, employer-employee relationships, property, debtor-creditor, commercial papers, uniform commercial code, and the enactment in class of one Mock Trial. It is designed to help the student appreciate the workings of organized society and also be better prepared to participate as a member of society.

**YEARBOOK JOURNALISM - 116 - GRADES 9/10/11/12** – This course develops skills in financing, interviewing, reporting, writing, designing, computers, photography and meeting deadlines. The class will produce the ACTA. Students will earn a pass/fail grade. It will meet during the school day for a full period.

## FOREIGN LANGUAGES

To obtain the most benefit from the study of a foreign language, students should study at least 3 years of the language. Languages will not be offered when enrollments are below the level that can be successfully scheduled. Every effort will be made to offer sequences. **Students who are contemplating college study are strongly urged to take 4 years of a language.** Students must successfully complete each level of a language to proceed to the next.

**SPANISH I - 250 - GRADES 9/10/11/12** – Spanish I provides an introduction to the language and culture of the Spanish-speaking world. Speaking and listening skills are emphasized with a focus on communication in topics such as food, school, clothing, family, friends, sports and vacation. The Spanish program is based on the belief that the purpose of learning Spanish is to communicate with the people who speak it and to understand their cultures. Spanish I students become members of the Spanish Club which sponsors trips to New York City, to Spanish restaurants, to see Spanish plays, to Mexico and Spain. Included in the culture are activities related to Hispanic Heritage month, Christmas, and Foreign Language week, such as the Latino Talent Show.

**SPANISH II - 251 - GRADES 10/11/12** - Spanish II students continue to learn to communicate about their own lives and how to interact with Hispanic cultures. Topics include: school, daily routine, clothing, sports and hobbies, family, and food. Reading and writing in Spanish will be included with continuous emphasis on listening to and speaking the Spanish language. Students will enhance all these skills by viewing the video, “La Catrina”. Spanish Club sponsors trips to New York City, Mexico, and Spain.

Students also participate in activities related to Christmas, El Carnaval, Dia de los muerto, Foreign language week, and Cinco de mayo.

**SPANISH III - 252 - GRADES 11/12** - Spanish III students continue to increase their ability to communicate in Spanish in areas related to everyday activities. The emphasis continues to be on speaking with activities to help improve writing and reading skills. The cultural focus will be on the contemporary Spanish-speaking world. Students participate in projects such as writing a Christmas newspaper, internet use as it relates to Spanish culture, and teaching Spanish in an elementary school program. Spanish III students who are eligible will be inducted into the National Spanish Honor Society. Trips and holiday activities are an important part of the Spanish III curriculum.

**SPANISH IV - 253 - GRADE 12** - Spanish IV is the completion of the 4 year program offered in the Spanish curriculum. Students continue to improve, refine and enhance their ability to communicate in Spanish. More complex grammatical structures are introduced, some reading of simple Spanish literature is offered. Topics include community, art, food, Mayan civilization, myths, and legends, and multiculturalism. Spanish IV students provide the leadership for both Spanish Club and Spanish Honor Society. Activities include trips to Spain, Mexico, New York City, and to see Spanish plays. Students also participate in activities related to Spanish holidays, Hispanic Heritage month, and Foreign language week.

**FRENCH I - 258 - GRADES 9/10/11/12** - French I is an introduction to basic grammar and vocabulary with extensive practice in listening, comprehension, speaking, and simple reading and writing exercises. Contemporary aspects of French culture are introduced through dialogues and narratives. Included in the culture are studies of Paris, French foods, French speaking countries and French holidays, Christmas, Mardi Gras etc. Students are encouraged to

participate in activities of the French Club, such as seeing a French play and the Philadelphia museum trip.

**FRENCH II - 259 - GRADES 10/11/12** - French II is a continuation of French I. It includes basic grammar, vocabulary, practice in listening comprehension and speaking, and reading and writing exercises of increasing length and complexity. Current aspects of French life are presented through the basic conversation materials and the reading selections. Culture includes studies of regional French foods and the geography of France. Students are encouraged to participate in French Club activities such as the New York City trip and going to a French restaurant. Eligible students will become members of the National French Honor Society.

**FRENCH III - 260 - GRADES 11/12** - French III is an extension of French II. The grammar in this course is more advanced, the vocabulary is more extensive and there is a decrease in emphasis on listening and speaking, with a corresponding increase in emphasis on reading and writing. The reading and writing selections, which continue to stress contemporary aspects of French life, introduce up-to-date vocabulary and slang. Students are also able to participate in many useful projects such as teaching French in the elementary schools. Students are encouraged to continue participation in French Club activities such as a 4 day Quebec or Montreal trip and a NYC trip. Eligible students will become members of the National French Honor Society.

**FRENCH IV - 261 - GRADE 12** - French IV includes the completion of units from Level III, emphasizes reading and writing with assignments of greater length and complexity. Grammar explanations deal with refinements of what had been learned previously and with the finer points of grammar and the syntax. Students are able to participate in projects including teaching French in the elementary schools. They are also encouraged to continue participation in French Club activities. Eligible students will become members of the National French Honor Society.

**LATIN 1 -262- GRADES – 9/10/11/12** – This course introduces the student to the fundamentals of the Latin language. An emphasis is placed on the mastering of grammatical constructions in both English and Latin. Along with the study of the Latin language, the student will also study the Roman and Greek cultures, allowing the student to understand the impact of these cultures on our western history. By the end of Latin I, the student will come to appreciate our modern American ties to the ancient Romans. This course is offered every other year. It will be offered again the 2006/2007 school year.

**LATIN II - 263 - GRADES – 10/11/12** – This course begins the student's studies at the intermediate level. The student will begin to understand the more complex constructions of the Latin language. Corresponding to this study, the reading of Julius Caesar's Gallic Wars will provide a background to Latin grammar, Roman culture, and Roman history. By the end of Latin II, the student will have mastered the majority of Latin constructions and furthered his or her knowledge of the Roman culture. This course is offered every other year. It is offered the 2005/2006 school year.

## MATHEMATICS

**MATHEMATICS - 030** - This course presents mathematics as a cumulative, unified subject directly relevant to real world connections. It progressively develops all important mathematics

topics, including whole numbers, fractions, decimals, measurement, proportion, percents, number theory, statistics, probability, geometry, logical reasoning and pre-algebra.

**MATHEMATICS - 033** - A thorough development of mathematical concepts, skills and problem solving strategies is completed with this course. Integers, including negatives, fractions, decimals, proportions, percents, and probability are expected to be mastered. Equations and geometric concepts are further developed. Estimation and real world connections are emphasized as well as a continuing algebraic approach to problem solving skills.

**ALGEBRA I - 035** - (See course description under course 301) This course taken in 8th grade does not count toward the 25 graduation credits or the math requirements for graduation.

**ALGEBRA I A - 300** – This class is intended for the student needing Algebra at a slower pace. Applications, connections and integration of algebraic methods form the basis for this course. Equations are the key concept of the course; they are solved with algebraic methods, proportional reasoning and also graphed. Integrated topics from statistics, probability, geometry, and trigonometry are included throughout the course.

**ALGEBRA I - 301** - The course begins with a fast paced review of real numbers, algebraic notation, and simple linear equations. Algorithms for more complex linear equations, absolute value equations, and quadratics are soon added. These are followed by corresponding inequalities. The course then develops graphing techniques for those same equations and inequalities in two unknowns. The second half of the course covers functions, systems of equations, exponents, polynomials, factoring and rational expressions. Matrices are used throughout the year. Topics in statistics and probability are included throughout the year. Problem solving skills and real world connections are integral parts of the course.

**ALGEBRA I B - 302** – After completing the Informal Geometry course, students return to finish the remaining Algebra I topics. Following a review of the previous algebra course, systems of linear equations and inequalities will be solved. Numerous mathematical models are included in all units. Polynomials will be explored; methods of factoring and the use of quadratic and exponential functions are covered next. The remaining topics look at rational expressions, radicals, and their related equations.

**GEOMETRY - 303** - Proofs of theorems and applications of these theorems constitute the main topics covered in geometry. Traditional topics of congruency, similarity, polygons, coordinate geometry, right triangles and basic trigonometry concepts are introduced and developed. Areas and volumes are calculated. Constructions of segments, angles and polygons are included along with real world connections.

**ALGEBRA 2 - 304** - This course will follow geometry and is for the student needing second year algebra at a slower pace. Topics begin with a review of equations, inequalities and absolute value, and extend to relations and functions, systems of equations and matrices. The remaining units develop concepts dealing with polynomials, rational expression, and irrational and complex numbers. Development of problem solving skills and real world connections are an integral part of this course.

**ALGEBRA II - 305** - This course begins with a review of equations, inequalities, and absolute value, then extends to linear, polynomial and quadratic relations and functions. Units on matrices and their applications, complex numbers, logarithmic and exponential functions,

sequences and series, statistics and probability, and conics are also introduced and developed. The strengthening of problem solving skills and real world connections are emphasized.

**ALGEBRA 3 AND BASIC TRIG - 306** - This is the sequential course for Algebra 2 and begins with the quadratic, exponential and logarithmic functions. Following are units in probability and statistics, sequences and series, and conic sections. The trigonometric functions are defined, used in right triangles and graphed. Trigonometric identities and oblique triangle concepts are developed. Continuing development of problem solving skills and real world connections are emphasized throughout the course.

**INFORMAL GEOMETRY - 307** - This course follows Algebra I A. This is not considered a college prep course. The geometric concepts developed in this course include lines, quadrilaterals, similarity, circles, and right triangles. The basic trigonometric functions will be defined and developed for right triangles. Areas and volume of spatial figures will be calculated. Graphs in the coordinate plane complete the course. There is a strong emphasis in this course on developing problem solving skills and real world connections.

**TRIG/ADVANCED MATH - 308** - During the first semester, trigonometry is developed in both application and theoretical situations. The Advanced Math topics are a continuation of algebra topics, which include equation theory, matrices, sequences and series, probability, logs and exponents, limits and other pre-calculus topics. Graphing calculators are provided for use within the classroom.

**CALCULUS - 309** - After a review of functions and the Cartesian plane, the limit concept is introduced and developed. Algebraic derivatives and their application follow, with graphing concepts emphasized. Integration and its application, along with logarithmic, exponential and trigonometric functions will complete the course.

**A.P. CALCULUS - 310** - A Calculus readiness test will be given prior to this course being scheduled. The syllabus for Calculus AB will be followed in this course. It allows for the necessary topics to be completed prior to the Advanced Placement exam in May. The pace for the course will be accelerated compared to Calculus. Preparation on test questions comparable to the actual Advanced Placement exam will be part of the course. A graphing calculator will be provided for student use throughout the course. Students enrolling in the course are advised to take the A.P. exam.

**DISCRETE MATH/STATISTICS - 311** - This is a year long senior math elective for students who have finished Algebra II. Students considering a career in mathematics/engineering/science should elect it only in addition to Trig and/or Calculus. The first half of the course in formal statistics will include measures of central tendency, frequency, variability and data analysis, including various plots and graphs. Numerous real world connections will be made within the statistical study. The second semester will be spent investigating traditional and modern topics in discrete mathematics, including set theory, mathematical logic, Boolean Algebra, and graphing theory. The year will conclude with the study of several short topics, which illustrate the power of discrete mathematics in the solution of various real world problems.

**APPLIED MATH I – 314** – This year long course will be offered to 9<sup>th</sup> grade students who display an interest in vocational preparation and education. Students who anticipate enrolling in the Susquehanna County Career and Technology Center or the School-to-

Work Program should enroll in this rather than Algebra IA. Curriculum will follow the CORD Vocational Math Curriculum. THIS COURSE OFFERED EVERY OTHER YEAR. Offered this 2005/2006 school year.

**APPLIED MATH II – 315** – This year long course will be offered to those students who successfully completed Applied Math I. Students who anticipate enrolling in the Susquehanna County Career & Technology Center or the School-to-Work Program should enroll in this course. Curriculum will follow the CORD Vocational Math Curriculum. THIS COURSE OFFERED EVERY OTHER YEAR. Will be offered in the 2006/2007 school year.

SEE COURSE SEQUENCE CHART IN THE BACK OF THE COURSE SELECTION GUIDE.

## SCIENCE

**All students in grades 9-12 must successfully complete requirements in Earth Science, Biology, Chemistry, and Physics. Advanced Physical Science will meet the Chemistry and Physics requirements for those students who opt to not take separate courses in Chemistry and Physics.**

**LIFE SCIENCE - 040 - GRADE 7** - This course provides the student with activities and experiences which not only satisfy a learning needed at this level but which also prepares the student for more advanced learning in the Biological Sciences offered later in the science program.

**PHYSICAL SCIENCE - 043 - GRADE 8** - The subject matter of this 8th grade course consists of physical science topics geared to the junior high school level. Student laboratory experience is provided.

**EARTH SCIENCE - 400 - GRADE 9** - The curriculum area covered will include: the earth and its development, records in rocks, earth environment and crust, polar, desert and ocean regions, hydrosphere and lithosphere, weather and atmosphere. The course will involve relations in practical area such as topography, conservation, gravitation and exploration of areas, which have a practical application to the student environment.

**BIOLOGY - 402 - GRADE 10** - Instruction in the basic study of life functions, cellular activities, human biology, ecology, and conservation of natural resources. Relative practical knowledge is made available to these students.

**COLLEGE PREPARATORY BIOLOGY - 403 - GRADE 10** - This course is designed to give college bound students a greater understanding of the biological world. Curriculum will be detailed and the student is responsible for daily review of classroom topics. Classroom work will be supplemented with reading, laboratories and outside work including an extensive leaf collection. Topics taught include ecology, macromolecules, energy for living things, genetics, and animal and plant biology.

**CHEMISTRY - 404 - GRADES 11/12** - The following areas are studied in depth: structures and bonding, energy, equilibrium and equilibrium constants, gases, acids, bases and salts, organic chemistry, formula and equation writing, and stoichiometry related to formulas and equations. Students perform laboratory exercises throughout the year to supplement practical and technical learning.

**ADVANCED PLACEMENT CHEMISTRY - 409 - GRADE 12** - This course provides the opportunity for secondary school students to experience, and perhaps receive college credits for college level chemistry. Students will be involved in lecture of college level chemistry topics and also in as much laboratory work as possible, as lab is an integral part of college chemistry. A.P. Chemistry will build on concepts taught in first year high school chemistry. The students will accumulate facts to enable them to comprehend the development of chemical principals, utilize these principals, and relate to all chemical matters. Course enrollment will be limited to students with a **91 GPA** or above in Chemistry. Students who seek enrollment will be required to do a pre-school assignment for the first day of class.

**PHYSICS - 405 - GRADES 11/12** - This course is a laboratory science with emphasis both on theory and application in mechanics, heat, light, sound, electricity and modern physics. Since Physics is a mathematical science, students are expected to have completed Algebra II prior to taking this course.

**A.P. BIOLOGY - 406 - GRADES 11/12** – This course is designed to be taken by students after the successful completion of a first course in high school biology and one in chemistry as well. A.P. Biology is designed to be the equivalent of an introductory biology course at the college level. Topics covered include chemistry of life, cells, cell energetics, heredity, genetics, evolutionary biology, diversity of organisms, structure and function of plants and animals, and ecology. This is a rigorous course that places greater expectations on the student and holds the student to a higher standard. A laboratory component of the course will emphasize concepts covered in lecture, readings, and discussion. Students will develop important skills such as detailed observation, data interpretation and operation of technical equipment. Exception will be given to juniors who have obtained an overall **average of 91 or higher** in C.P. Biology. At the culmination of the course, students will be prepared to sit for the A.P. Biology Examination.

**ADVANCED PHYSICAL SCIENCE – 408 - GRADES 11/12** - This course includes a half-year instruction in both Physics and Chemistry and is a required course for graduation for those students who elect to not take Physics and Chemistry. Chemistry topics include measurements, matter, atomic structure, states of matter, mixture, bonding, compounds, and reactions. Physics instruction includes the areas of measurements, motion, electricity and electric energy, magnetism, wave motion, electro magnetic radiation and optical instruments. **Again, this is a required course for those students not electing Chemistry and Physics.**

SEE COURSE SEQUENCE CHART IN THE BACK OF THE COURSE SELECTION GUIDE.

## COMPUTER SCIENCE

**COMPUTER SCIENCE I – 411 – GRADES 10/11/12** – This course will provide an overview of Computer Science ranging from the history of computers to emerging technologies. Specific topics include: computer hardware and peripherals, operating systems, networks, data and file structures, security, programming and the internet. Emphasis will also be placed on: current topics in computer science, an introduction to computer programming, and how computers impact business and every-day life. Students should have proficiency in Algebra and an aptitude for problem-solving.

**COMPUTER SCIENCE II – 412 – GRADES 11/12 – (Pre-requisite: Computer Science I)**  
This course is applicable to any student in grades 11 or 12 who have successfully completed Computer Science I. This course continues the survey of Computer Science beyond the first

level and intensifies the study of computer programming. Students will learn top-down program design and a step-wise approach to problem solving while programming with C++. Additionally, the course will survey JavaScript and HTML in the design and construction of web pages. Students are expected to work as a team in a business-like atmosphere.

### **INTRO TO COMPUTER PROGRAMMING AND WEB DESIGN – 414 – GRADES**

**10/11/12** – This course teaches the fundamental concepts of web design and development as well as web programming. The class will begin with an overview of the internet and how it works, then discuss the special considerations when designing for the web vs. print. Students will learn to program for the web using HTML and become familiar with peripherals such as the digital camera and scanner. HTML topics will include: formatting tags, working with color and inline images, tables, frames, and forms. Class exercises will include guided practice as well as student-driven web site development.

## **SOCIAL STUDIES**

**THE ANCIENT WORLD - 050 - GRADE 7** - This course is a study of the development of man and the growth of civilization up to the Age of Exploration. The ancient world of Greece and Rome are studied up to the discovery of the New World.

**U.S. HISTORY I - 053 - GRADE 8** - The objective of the eighth grade program is for the student to achieve an understanding of American heritage from the colonization to the early 19th century. Also, significant time is spent in the study of Pennsylvania's place in the growth of America and the origins of American government.

**GEOGRAPHY AND ENVIRONMENTAL EDUCATION - 056 - GRADE 8** - The emphasis of this course is to develop the student's understanding of the relationship between physical geography and human geography. Included in this course of study will be the refinement of basic geographical skills. Specific areas to be included in this course will be Pennsylvania, United States, Mexico and Canada.

**U.S. HISTORY II - 500 - C.P., 501 - REGULAR - GRADE 9** - The objective of the 9th grade program is for the student to achieve an understanding of American heritage, from the early 19th century to 1912. Also, significant time is spent in the study of Pennsylvania's place in the development of America. The growth of American government is studied.

**U.S. HISTORY III - 503 C.P., 504 - REGULAR - GRADE 10** - This course stresses American History from the administration of Woodrow Wilson to the present. Minority histories will be incorporated into this course, as well as the place of Pennsylvania in the growth of the United States. The growth of American government is studied.

**MODERN WORLD HISTORY - 506 C.P., 507 - REGULAR - GRADE 11** - This course will be a survey history of the modern world, exclusive of the United States. The period of time covered will be from the renaissance through the present time. Events will be examined through a European prospective but will include global issues.

**AMERICAN GOVERNMENT/ECONOMICS - 509 - C.P.- 510 - REGULAR - GRADE 12** - This course in contemporary American Culture is a political, social, and economic approach to current American life and government. It studies American government and politics, as well as current affairs and a thorough examination of the American economy and its place in the world. Comparative economics, banking, stocks, and the effect of economics on daily lives is studied.

Techniques of researching and writing a term paper are presented including the proper use of library skills.

**PSYCHOLOGY - 515 - GRADE 12** – The Psychology instructor’s recommendation is required to take this course in 11<sup>th</sup> grade. As an elective, this course is designed to mirror the college level introduction to Psychology courses required in most fields of study. The course enhances the student’s understanding of human development and behavior. Historical analysis of the field of Psychology is balanced with discussion of current Psychological issues especially relevant to the high school student. Classic debates such as Nature/Nurture are intertwined with contemporary research and current perspectives in the field, as well as with each student’s personal thoughts and experiences. Specific topics include Research Methods, Neuroscience and Brain Development, Human Sexuality, Psychological Disorders and Parapsychology. The course DOES NOT reduce the social studies requirement.

**A.P. EUROPEAN HISTORY - 517 - GRADE 11** - An advanced course in European Cultures taught on a college freshman level to prepare students for the A.P. Test for college credit. There is a screening process and a summer project is required in preparation for this course. This may be taken in place of Modern World History.

**A.P. U.S. GOVERNMENT - 518 - GRADE 12** – This advanced course in U.S. Government prepares the student for the A.P. American Government test for college credit. This may be taken in place of C.P. U.S. Government. A summer project is required.

SEE COURSE SEQUENCE CHART IN THE BACK OF THE COURSE SELECTION GUIDE.

## **TECHNOLOGY EDUCATION**

**TECHNOLOGY ED. - 046 - GRADE 7** - This 45-day course involves problem solving and design techniques with an emphasis on simple and motorized machines. Students will be utilizing the Lego Simple Machines Set as a tool for learning.

**CREATIVE ARTS – 068-GRADE 8** – An elective survey course for students to become familiar with 2 areas of Tech Ed, study/social skills development and career development. Possible projects in the Tech Ed area may include CO2 dragsters, clocks, business card design, notepad design and production and T-shirt design using a heat transfer process.

**GRAPHIC COMMUNICATIONS I-607-GRADES 9/10/11/12-** This course provides a broad overview of the visual communications industry. It emphasizes design principles, history of visual communications technologies, and the production of typical products within the industry. Topics of study include printing/reproduction processes, digital photography, the advertising industry and computer-based communications systems. Related activities will include applying design principles to create graphic designs, advertising design and layout, bookbinding, product design and production, and screen printing. An average of C or above is required to advance to Graphic Communications II.

**GRAPHIC COMMUNICATIONS II – 608- GRADES 10/11/12 – PREREQUISITE GRAPHICS I** – This course will provide a series of practical experiences in the design and technical aspects of publishing and production. The class will be responsible for producing graphics projects on a regular basis. All students will be exposed to areas of research, layout, editing, design elements, advertisement/publicity development, digital photography, color registration and various printing processes including offset duplication and screen printing.

**PRACTICAL PRINTING - ### - GRADES 10/11/12 – PREREQUISITE GRAPHICS I**

This course emphasizes the technical and production aspects of the printing industry. Class time will revolve around an authentic industry atmosphere. Activities will consist of completing designs and production runs of specific “jobs” for the Montrose Area School District and occasionally the community.

**COMPUTER REPAIR – 211 – GRADES 10/11/12** - This course is designed as a preparation course for the A+ certification exam. The course has an emphasis on computer hardware. Students will learn how the computer functions. They will learn how to maintain and upgrade a computer, and how to troubleshoot computer problems. The course is taught in both virtual and hands-on setting. Operating systems and some software will also be covered.

**INTRODUCTION TO METAL TECHNOLOGY - 600 - GRADES 9/10/11/12** - Introduction to metal technology is a one year course with a goal of giving students a basic knowledge in metalworking. Students will work in both hot metal processes (welding, casting, forging, etc.) and machine processes (lathe and milling machine). Students will be learning by producing a variety of projects required by the instructor.

**ADVANCED METAL TECHNOLOGY - 601 - GRADES 10/11/12** – Advanced Metal Tech. is a one year course for students who would like to continue their education in metalworking. Students will be introduced to different welding processes and more advanced machining processes. Part of the year will be spent designing and completing a production project.

**ADVANCED METAL TECHNOLOGY II - 611 -GRADES 11/12-** Production Plant and Tool Room Maintenance- This is a metalworking course designed for students interested in equipment and plant maintenance. Students will be involved in maintaining equipment on a daily basis. This may involve manufacturing of equipment, repairs to equipment, replacement of parts on equipment, and manufacture of parts for repair. Intro to Metal and Adv. Metal are pre-requisites.

**MECHANICAL DRAWING - 602 - GRADES 9/10/11/12** - Technical drawing is a critical foundational component of any type of engineering. It is the paper plan that workers will forge in steel or build to great heights with cut stone, concrete and iron. Contents of the course include orthographic drawing, technical sketching and sectional views. An introduction to the CAD system is also covered.

**ADVANCED MECHANICAL DRAWING - 603 - GRADES 10/11/12** - Students must have successfully completed Mechanical Drawing I prior to taking this course. The goal of advanced mechanical drawing is for students to learn and become proficient making advanced technical drawings using the most popular and widely acclaimed drawing software used by architects, engineers and technicians throughout the world today: AutoCAD. While there are many software programs for drawing on the market, AutoCAD is considered to be the standard of industry. Any student considering a career in engineering or architecture should become acclimated with this software.

**ARCHITECTURAL DRAWING - 606 - GRADES 10/11/12** - Prior to taking this course, students must have successfully completed Mechanical Drawing I and II. Modern house construction has come a long way since the days when pioneers built their houses of stone, logs, and thatch using shovels, saws and axes. In this day and age it is a precision science and all starts with a detailed set of working drawings drawn or approved by a licensed architect. Architectural drawing deals with understanding architectural styles, designing a home, making

detailed working drawings (using AutoCAD) and understanding each aspect of home construction.

**INTRODUCTION TO WOOD TECHNOLOGY - 609 - GRADES 9/10/11/12** – Students should know how to measure in order to take this course. In this course students will learn how to properly use hand tools and machines to layout and process materials to specific dimensions. They will learn safety, lumber processing/grading, project planning, basic joinery, assembly, sanding and finishing techniques involved in woodworking. They will apply these skills in order to complete required assignments, projects, and tests which will be given throughout the year.

**ADVANCED WOOD TECHNOLOGY - 610 - GRADES 10/11/12** - Students must have successfully completed Introduction to Wood Technology prior to taking this course. In this course we will start off by reviewing safety, machine processes and joinery. Finally we will move on to advanced cabinet making, joinery and mill work (lathe & shaper). Required projects, assignments and tests will be given throughout.

## **FAMILY AND CONSUMER SCIENCES**

**HOME ECONOMICS - 046 - GRADE 7** - A 45 day introductory course covering beginning basic nutrition guidelines, self-concept, and relationships with family and friends.

**FAMILY AND CONSUMER SCIENCE- 413- GRADE 9** – This course includes the following: Financial and resource management, balancing family, work and community responsibility, food science and nutrition and child development. The course will be taught every day for half a year and is 0.5 of a credit. This is a required course for all 9<sup>th</sup> grade students.

**INTRODUCTORY FOODS AND NUTRITION - 651 - GRADES 10/11/12** - A course designed to cover basic food preparation, nutritional values of food and how they are used in the body, kitchen safety and managing food dollars. The course is designed to help students make wise choices about food and nutrition for the rest of their lives.

**CHILD DEVELOPMENT - 656 - GRADES 10/11/12** - Open to all students. A good course for those interested in careers in early childhood, elementary education, pediatrics, special education, and parenting. The social, intellectual, emotional, and physical development of a child from birth to six years is studied. Parenthood and pregnancy are also explored.

**LIFE SKILLS - 657 - GRADES 11/12** – This course is designed to prepare students for living on their own whether it be in college or the workplace. Practical topics include: checking accounts, credit cards, personal budgets, insurance, housing choices, job applications and interviews. Interpersonal topics include conflict resolution, time management, and life style changes and are integrated in the course; also, establishing and reaching goals. **THIS COURSE IS OFFERED EVERY OTHER YEAR. Will be offered again the 2006-2007 school year.**

**ADVANCED CHILD DEVELOPMENT – 655 – GRADES 11/12** – This is the sequential course for Child Development. It is designed for students who are considering a career working with children (elementary education, pediatric nursing, social work, day care, etc). **THIS COURSE IS OFFERED EVERY OTHER YEAR. Will be offered this 2005/2006 school year.**

**WOMEN'S ISSUES - 658 - GRADE 12** - This course is designed to address current topics of concern to women. Included are: the female reproductive system, dating and interpersonal

relationships, health issues (eating disorders, STD'S, cancers), depression and suicide, the management of stress, time and finances and many more.

**ADVANCED FOODS- 652- GRADES 11/12** - This course is a follow up to Introductory Foods and Nutrition. Students will explore international cuisine, careers in the field, nutritional science and advanced skills in food preparation.

## PHYSICAL EDUCATION

**PHYSICAL EDUCATION** - The objective of the 7-12 Physical Education Program are to develop, reinforce, and promote: teamwork and competition skills, physical fitness, aerobic fitness, coordination, agility, strength, swiftness and endurance. New skills will be developed and old skills reinforced. Knowledge of game rules and strategy will be emphasized. Students will demonstrate leadership skills and the ability to work cooperatively in team sports and group activities. Individual development in motor fitness skills, physical fitness, including aerobic fitness and skills in lifetime sports and outdoor activities will be promoted. Students will be expected to demonstrate their knowledge of benefits associated with physical fitness. The program introduces junior high students to the complete athletic program of the high school. Elective choices are made in grades 11 and 12 with emphasis on lifetime leisure activities and lifelong physical activity. **Students in grades 9-12 will participate in a weight-training program for 1 marking period/year. Students in grades 9-10 will also be required to participate in a unit in modern dance.**

COURSE #		GRADE		COURSE #	
070	BOYS	GRADE 7		071	GIRLS
072	BOYS	GRADE 8		073	GIRLS
700	BOYS	GRADE 9/10		701	GIRLS
702	BOYS	GRADE 11/12		703	GIRLS

**ADAPTIVE PHYSICAL EDUCATION - 704 - GRADES 7/8/9/10/11/12** - An individualized program of adaptive Physical Education is offered with proper referral from a medical doctor.

## HEALTH

**HEALTH - GRADE 8** - A 45-day course designed to present current and accurate information about drugs and drug dependency. Students are taught useful social skills like staying out of trouble with friends by making good, healthy choices, and demonstrating self-control. Communicable diseases are studied with emphasis on immunity and prevention. AIDS education includes the maintenance of safe behaviors and the exclusion of risky behaviors.

**HEALTH - 705 - GRADE 10** - This course is designed to enable students to develop knowledge of the plan of action for accidents and sudden illness and the ability to respond appropriately in emergency situations, to identify and demonstrate knowledge of risk factors associated with heart attacks and how to minimize those risk factors, to identify the advantages of avoiding tobacco, alcohol and all other substance abuse, to identify healthful dietary practices and strategies for weight maintenance and selection of healthy food choices, to identify and describe basic concepts of the immune system and demonstrate knowledge of and risk behaviors of HIV/AIDS. (3 days out of 6)

**FIRST AID – 706 – GRADES 11/12** – This course will be taught 3 days of the 6 day cycle for ½ a school year. Upon completion of the course, students will be certified in basic first aid and adult, infant, and child CPR. This is a half credit course. Class size is limited to 12 students.

## MUSIC

**MUSIC APPRECIATION - 080 - GRADE 7** - All 7th grade students must take this course to fulfill their music requirement. Students will be introduced to various musical instruments, rudimentary music theory and music history.

**CHORUS - 082 - GRADE 7** - Open to all 7th grade students who want to sing. The chorus prepares 2 programs for public performance each year along with intensive eye and ear musical training aimed at developing music reading ability. Participation in concerts is mandatory as is active rehearsal participation. Students are required to play for graduation.

**BAND - 083 - GRADE 7** - Open to all 7th grade students whom have had some experience on a band instrument. Instruction during the year is concerned primarily with instrumental skills and with preparation of concert music. Participation in concerts is mandatory as is active rehearsal participation. Program may contain one parade. Students must possess an instrument to enroll in this class. Students are required to play for graduation.

**BAND - 084 - GRADE 8** - Open to all 8th grade students who have had instruction on an instrument. At least two public concerts with required participation are given during the year. Instruction is concerned primarily with the growth of instrumental skills. Participation in concerts is mandatory as is active rehearsal participation. Program will contain one parade. Students must possess an instrument to enroll in this class. Students are required to play for graduation.

**CHORUS - 085 - GRADE 8** - Open to all 8th grade students who want to sing. This group prepares two programs each year. Along with special attention given to the changing boy's voice, the music-reading program started in 7th grade chorus continues. Participation in concerts is mandatory as is active rehearsal participation.

**CONCERT CHOIR - 800 - GRADES 9/10/11/12** - This is a select group of mixed voices. Vocal and sight-reading proficiency are necessary. The group sings high caliber choral music from all periods of music history. Several public performances are given each year both in school and in the community. Participation in concerts is mandatory as is active rehearsal participation.

**SYMPHONIC BAND - 802 - GRADES 9/10/11/12** - This is an elective course for students in grades 9 through 12. Admittance is based upon instrumental proficiency and the requirements of balanced instrumentation. This is the primary group to represent the instrumental music department at school and community functions. All performances are mandatory. Students will be required to take individual playing assessments. Students are required to play for graduation.

**MUSIC LITERATURE - 805 - GRADES 9/10/11/12** - An introduction to the music literature of the various periods of music history, mainly through the medium of the symphony orchestra, with emphasis placed upon formal structure. Also study the development of American music from 1900 to the present day. COURSE IS OFFERED EVERY OTHER YEAR. **Offered in the 2006/2007 school year.**

**MUSIC THEORY - 806 - GRADES 9/10/11/12** - An elective open to students with a background in music. Four areas are covered: (a.) Written Theory – includes scales, modes, intervals triads, harmonic progression, structural analysis, cadences, four-part

harmony, chord inversions, decorative pitches, dominant seventh chords, choral arranging and composition, seventh chords, secondary dominant chords, augmented chords, modulation, orchestration, and fugue analysis. (b.) Keyboard Harmony – scales, chords, playing all assignments harmonizing and accompanying simple melodies, chord progressions, transposition of familiar songs, employing techniques of modulation. (c.) Sight singing and Diction both cover rhythmic, melodic, and harmonic areas, from easy to moderately difficult, also complex rhythmic modulation and chromaticism. Student should have a minimum of one year experience in chorus or band. This course is subject to instructor admittance. COURSE IS OFFERED EVERY OTHER YEAR. Will be offered the **2005/06** school year.

**INTRO TO MUSIC TECHNOLOGY – 808 - GRADES 11/12** – This course is a survey of technology and its uses in music. Students’ experiences will include MIDI, sequencing, digital audio and other applications. Enrollment is limited to 15 students.

## **DRIVER EDUCATION**

**DRIVER EDUCATION - 707 - GRADE 10** - The class is scheduled for tenth grade students as well as upper classmen who have not previously passed the classroom work. Behind the wheel training may be taken after the student has attained the age of 16. The course takes the student through a carefully organized safety program. Upon completion of 30 hours of classroom instruction and 6 hours of behind-the-wheel training, a student may be eligible for reduced auto insurance rates from some companies. **All students are required to take this course.**

## **ART**

**ART - 019 - GRADE 8** - A 45-day course that explores various techniques involved in the production of art in a two or three-dimensional context.

**FOUNDATIONS OF ART 1 - 850 - GRADES 9/10/11/12** – This course will consist of work based on the Elements of Art: line, shape, value, texture and color and on the Principles of Design: repetition, contrast, unity, movement, rhythm and balance. A wide variety of materials will be used including both two and three dimensional mediums. This course also explores art history, aesthetics and criticism. Upon completion of this course, the student will have a general knowledge of art and be prepared to pursue advanced level art courses in the curriculum.

**FOUNDATIONS OF ART 2 - 851 - GRADES 10/11/12 – (Pre-requisite Art 1)** This course is designed to look at art and the production of art in a more in-depth way. Both two and three dimensional areas will be explored and a variety of materials will be used. Possible choices for coursework can include drawing, painting, printing, ceramics, sculpture and computer design.

**FOUNDATIONS OF ART 3 - 852 - GRADES 11/12 – (Pre-requisite Art 2)** In the third year of the art curriculum, students are given opportunities to develop their artwork on a more individual basis. More time is spent experimenting with advance techniques and materials before final projects are started. Students who plan on attending college for art will begin to prepare work for their portfolios.

**ADVANCED STUDIO PROBLEMS - 853 - GRADE 12 – (Pre-requisite Art 3)** This course is designed for seniors to explore advanced concepts in the visual art experience. Each student will be able to choose the materials and techniques used for their course work. Students who plan to attend college for art will finish preparing their portfolios.

## **VOCATIONAL TECHNICAL SCHOOL PROGRAMS SUSQUEHANNA COUNTY CAREER AND TECHNOLOGY CENTER**

The purpose of occupational education is to provide an opportunity for every individual to be trained in a service, skill, or occupation provided he/she has the interest and capability to learn and profit by such training to the extent that it aids him in earning a living.

**VO-TECH A.M. 899 - GRADES 11/12 - VO-TECH P.M. - 900 - GRADE 10** - The programs taught at the vocational/technical school are trade courses designed to prepare students for careers in skilled occupations. Strong emphasis is placed on teaching business practices, handling tools, and interpreting technical manuals. These courses require good aptitude for mechanics and manual dexterity plus average academic ability. After graduation from high school many continue their education in technical colleges. The following courses are available to students:

Health Assistant	
Automotive Technology	Cosmetology
Building Trades I	Building Trades II
Food Management, Production and Services	

## **COOPERATIVE VOCATIONAL EDUCATION PROGRAM**

**CO-OP EDUCATION - 901 - GRADES 11/12** - 1 Credit for the co-op class alone.  
Class meets each day of the week.

**CO-OP WORK - 902 - GRADES 11/12** – 2-4 Credits for supervised work experience related to the co-op class. This vocational program is primarily for the student who wants to enter employment directly out of high school. It should help the student to develop skills, abilities, understandings, attitudes, work habits, and information needed to enter and progress in productive employment. The students must be over 16, junior or senior, and recommended for the program by a guidance counselor. Students are only admitted after a conference with the co-op supervisor. Parents must be involved in this decision and all contracts between employers, students, and parents must be completed before a student goes to work. This program is for students who can profit from vocational instruction by being placed in jobs in local businesses and industries. It will involve a year in part-time training. On-the-job students will work in the afternoon for pay and learn the necessary skills for the occupation they have chosen. Students must maintain passing grades in all academic areas to continue participation in the program and must attend all classes. During the morning students receive instruction related to employment in addition to the courses needed for graduation. School Credit is granted for successful participants in this program. The program coordinator arranges for placement and must supervise the trainee on the job. He also teaches the job-related course. Many employers are interested in employing trainees after graduation. The following list shows the possible "On-The-Job Training" situations that exist in our community.

Auto Body Repair  
Retailing  
Hospital Occupations  
Office Occupations  
Hotel Occupations

Printing  
Restaurant Occupations  
Communications  
Agriculture Occupations  
Farm Equipment Sales

Auto Mechanics  
Woodworking Occupations  
Building Maintenance  
Auto Services  
Service

**SCHOOL TO WORK - 903 - GRADES 11/12** - Students are selected through a competitive process to work at various sites on a one day/week or a two-day/week schedule. Placement is made in the spring for work in the fall.

**PEER TUTORS - 999 - GRADES 9/10/11/12** - Students in grades 9-12 who work as a Peer Tutor under the direction of the Guidance Department will receive ½ credit per year for their community service.

### MATHEMATICS SEQUENCES

The following sequences are the normal patterns of courses. Sequence #1 is the most challenging and #4 is the least challenging. Students may move to the right if experiencing difficulty.

Grade	Sequence #1	Sequence #2	Sequence #3	Sequence #4
7	Math 7	Math 7	Math 7	Math 7
8	Algebra I	Math 8	Math 8	Math 8
9	Honors Geometry	Algebra I	Algebra I A	Applied Math I
10	(a) Honors Alg. II (b) Algebra II	Geometry **	(a) Informal Geometry (b) Algebra I *	Applied Math II
11	(a) Honors Trig. (b) Trig/Adv Math	Algebra II **	(a) Algebra I B (b) Geometry *	Informal Geometry
12	(a) A. P. Calculus (b) Calculus (b) Statistics	(a) Trig/Adv Math (b) Statistics (b) Alg. 3/Basic Trig.	(a) Algebra 2 (b) Algebra II (b) Algebra 2	(a) Algebra I A (b) Algebra I *

\* Only if exceptional work is shown in the previous course

\*\* In order to schedule both courses in the same year, a 92% average is needed in Algebra I, along with teacher approval.

### SCIENCE SEQUENCES

The following sequences are the normal patterns of courses. Sequence #1 is the most challenging and #3 is the least challenging.

Grade	Sequence #1	Sequence #2	Sequence #3
7	Life Science 7	Life Science 7	Life Science 7
8	Physical Science 8	Physical Science 8	Physical Science 8
9	Earth Science	Earth Science	Earth Science
10	C.P. Biology Biology	Biology	Biology
11	Chemistry	Chemistry	Adv. Physical Science
12	AP Biology Physics	Adv. Physical Science	

Other Science electives available for students in grades 11 and 12 include Advanced Placement Chemistry, and A.P. Biology.

## ENGLISH SEQUENCES

The following sequences are the normal patterns of courses. Sequence #1 is the most challenging and #3 is the least challenging.

Grade	Sequence #1	Sequence #2	Sequence #3
7	English 7	English 7	English 7
8	English 8	English 8	English 8
9	English 9 Honors 9	English 9	English 9
10	English 10 Honors 10	English 10	English 10
11	A. P. English 11	C.P. English 11	English 11
12	A. P. English 12	C.P. English 12	English 12

Journalism is also available to students in grades 9-12 as an elective courses offered by the English department.

## SOCIAL STUDIES SEQUENCES

The following sequences are the normal patterns of courses. Sequence #1 is the most challenging and #3 is the least challenging.

Grade	Sequence #1	Sequence #2	Sequence #3
7	Ancient World History	Ancient World History	Ancient World History
8	U. S. History 1 and Geography	U. S. History 1 and Geography	U.S. History 1 and Geography
9	C. P. United States History 2	C. P. United States History 2	United States History 2
10	C. P. United States History 3	C. P. United States History 3	United States History 3
11	Advanced Placement European History	C. P. Modern World History	Modern World History
12	Advanced Placement American Government	C. P. American Government/ Economics	American Government/Economics

Psychology is an elective offered to seniors by the Social Studies department.