

Mahanoy Area School District

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The mission of the Mahanoy Area School District in cooperation with parents and community members, is to provide diverse practical educational opportunities, to enhance each student's self-esteem, to develop individual talents and interests which will encourage students to achieve their full potential, and to become productive citizens in an ever-changing global society.

Principal's Message

Selecting a sound academic program in high school for a student's career choice is becoming increasingly complicated. Mahanoy Area High School offers a modern, comprehensive curriculum designed to prepare each student for his or her current needs, higher education, or entry into a technical school or professional trade. I cannot overemphasize the need for careful and intelligent planning among the student, parent, recommending teachers and counselors, if sound programs are to be well adapted to individual requirements.

As you examine the number of course selections in this booklet, please keep in mind not only your short-term needs, but also your long-term goals.

Our program offers challenging standard academic courses, advanced placement courses and career programs. Designed to enable the student to acquire the skills and competencies to directly enter the work force after high school or to continue into post secondary education programs, our courses can be integrated to meet the needs of today's students.

Although the goal of the Mahanoy Area School District is to challenge each student to achieve his or her greatest scholastic potential, do not expect your teacher or counselor to recommend courses that are beyond your level of capability. Carefully consider your present and past proficiency in all subjects when selecting courses for next year. Understanding that when you select courses for which you are capable, you will be expected to perform to your potential. Failure to perform to your potential is not a valid reason to drop any course during the upcoming school year.

Choose courses which challenge you appropriately, set realistic goals and take advantage of the diversified offerings available here. Only by reaching for your limit can you grow into the successful person that I know you can become.

Charlotte M. Golden
Principal
Mahanoy Area High School

Scheduling Guidelines

The graduation requirements for Mahanoy Area High school are in compliance with Pennsylvania State Board of Education regulations and include credits earned in grade 9 through 12.

I. Graduation Requirements include minimums in the following areas:

English	4.00 credits
Social Studies	3.00 credits
Mathematics	3.00 credits
Science	3.00 credits
Fitness/Health	1.00 credits
Technology/Business	.50 credits
Arts/Humanities	1.50 credits
Electives	<u>7.00 credits</u>
	23.00 credits

II. Promotion and Graduation Requirements:

To Grade 10	5.00 credits
To Grade 11	11.00 credits
To Grade 12	17.00 credits
For Graduation	23.00 credits

III. Schedule Changes:

Schedule changes will be permitted as follows:

1. With written parental/guardian permission to April 28, 2006
2. After May 1, 2006 only the following changes will be given consideration:
 - A. Request by student's teacher for change in the level of difficulty of a course.
 - B. Scheduling error-Example: Student completed English course in summer school but student schedule not adjusted.
 - C. Changes recommended by IEP Team or School Psychologists.
 - D. Administrative directed changes due to unusual circumstances.

Special Note: No schedule changes will be made at the end of the first marking period for students who failed any course.

Program of Studies

Our curriculum is designed to offer course choices that permit students to obtain the most comprehensive program available. It is to the student's advantage to schedule a variety of courses in order to be prepared to enter a four-year college, a technical trade/technological school, or a community college.

In order to better serve the students of Mahanoy Area High School, all students are encouraged to select courses that match their abilities and aptitudes. Note: Every student in grade 9 through grade 11 must maintain a full schedule. Students in grade 12 that have met the minimum graduation requirements have school-to-work and dual enrollment to college options.

SAMPLE SCHEDULE (Traditional)

9TH GRADE

English	1.00 credits
World Language	1.00 credits
Social Studies	1.00 credits
Science	1.00 credits
Mathematics	1.00 credits
Fitness/Health	.50 credits
Technology/Business	.50 credits
Art/ Humanities	.50 credits
Elective	.50 credits

10TH GRADE

English	1.00 credits
World Language	1.00 credits
Social Studies	1.00 credits
Science	1.00 credits
Mathematics	1.00 credits
Fitness/Health	.50 credits
Art/Humanities	1.00 credits
Electives	1.50 credits

11TH GRADE

English	1.00 credits
Social Studies	1.00 credits
Science	1.00 credits
Mathematics	1.00 credits
Electives	3.00 credits

12TH GRADE

English	1.00 credits
Science	1.00 credits
Mathematics	1.00 credits
Electives	4.00 credits

Electives should be chosen based on post secondary education plans, career goals and student interest.

Elective Suggestion Based on Education and Career Goals

Fine Arts, Humanities, & Communication	
Post-Secondary/Career Options	Elective Course Suggestions
Actor	Keyboarding/Word Processing
Copywriter	Desktop Publishing
Architect	Web Design
Teacher	Multimedia
Columnist/Journalist	Creative Writing
Computer Animator	SAT Writing/Reading Prep
Artist	Computer Aided Design
Editor	Sociology
Film Maker/ Director	Geography
Graphic Artist/Designer	Political/Social/Economic Issues
Musician	Social Issues & Attitudes
Newscaster/Analyst	Art I, II
Novelist	Clay
Playwright	Music Appreciation
Public Relations	Library Research
Reporter	Public Speaking
Scriptwriter	Publications Management
Sculptor	Marching & Concert Band
Sportscaster	2D Art Design
Teacher	3D Art Design
Technical Writer	LCCC Art 101
Counselor	Spanish
Web Designer	French

Business, Marketing & Technology	
Post-Secondary/Career Options	Elective Course Suggestions
Accountant	General Business
Administrative Assistant	Salesmanship
Athletic Manager	Consumer Education
Banker	Accounting I
Business/Investment Broker	Accounting II
Caterer	Business Law
Computer Operator	Office Practice
Computer Systems Manager	Intro to Finance
Credit Analyst	Principles of Small Business Management
Database Administrator	Web Design
Executive Secretary	Multimedia
Financial Manager/Services	Personal Finance
Retail Manager	Sports/Entertainment Marketing
Hotel Management	Probability and Statistics
Human Resources	Business Math

Loan Officer Market Research Analyst Office Manager Public Health Administration Real Estate Broker Sales Representative Stock Broker Tax Preparer Wholesale & Retail Buyer	Business English Economics Sociology Political/Social/Economic Issues Publications Management Public Speaking Spanish French
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Health, Science, Human Services	
Post-Secondary/Career Options	Elective Course Suggestions
Air Traffic Controller	Intro to Calculus
Alcohol/Drug Abuse Counselor	Algebra III
Anesthesiologist	Trigonometry
Athletic Trainer	Probability & Statistics
Biologist/Scientist	SAT Math Prep
Chemist	SAT Writing/Reading Prep
Child Psychologist	TI-83 Plus Graphic Calculator
Chiropractor	AP Calculus
Dentist/Hygienist	Earth & Space Science
Dietitians/Nutritionist	Environmental Science
Early Childhood Education	Chemistry
Government Official	AP Chemistry
FBI Agent	AP Physics
Lawyer/Paralegal	Physics
Nurse	Organic Chemistry
Occupational Therapist	Applied Science
Pharmacist	AP Biology
Physician/Surgeon	Biology II
Crime Scene Investigator	Contemporary Issues in Science
Psychologists	Psychology
Social Worker	Social Issues & Attitudes
Veterinarian	Library Research
Transplant Coordinator	Parenting
Social Services Specialist	Marriage & Family Living
Medical Lab Technician	Anatomy/Physiology
Surgical Technician	Current Trends in Health
X-ray Technician	Anatomy II
Phlebotomist	Life Guarding

Science, Engineering and Industrial Technology	
Post-Secondary/Career Options	Elective Course Suggestions
Aerospace Engineer	AP Calculus
Architect	Algebra III
Astronaut	Intro to Calculus
Biomedical Engineer	Trigonometry
Chemical Engineer	Physics
Civil Engineer	AP Physics
Chemist	SAT Math Prep
Computer Engineer	SAT Reading/ Writing Prep
Electrical Engineer	Probability and Statistics
Engineering Technician	Environmental Science
Environmental Engineer	Biology II
Geneticist	AP Biology
Hybrid Fuels Engineer	Chemistry
Industrial Engineer	AP Chemistry
Landscape Architect	Computer Aided Design
Manufacturing Plant Manager	Ecology
Marine Engineer	Anatomy/Physiology
Mathematical Scientist	Anatomy II
Mechanical Engineer	TI-83 Plus Graphic Calculator
Mineral/Mining Engineer	
Nuclear Scientist	
Physicist	
DNA Technician	
Research/Development Scientist	
Science Laboratory Manger	

DUAL ENROLLMENT

Dual enrollment allows students to take college courses while attending their home high school. Through a partnership between Mahanoy Area High School and Lehigh Carbon Community College (LCCC), students can earn both transferable college credits and high school credits for courses taken in the dual enrollment program.

Students participating in the dual enrollment program receive these course credits at a fraction of the cost they would pay to state universities or private colleges if they enrolled in those courses on campus. Courses are taught at our high school by our faculty.

Courses that are available for dual enrollment are Composition & Research, Analysis of Literature, Psychology, Sociology and Art.

SCHOOL-TO-WORK

The School-to Work Program allows 12th Grade students, who have enough credits to graduate, early dismissal/late arrival as long as the student is employed on a regular basis. Work skills and ethics are reinforced through weekly seminars and onsite job monitoring.

Schuylkill Technology Centers

Vocational/Technological Program

The Schuylkill Technology Centers at their Frackville and Mar Lin Campuses offer students a unique opportunity to learn through live experiences in a real work environment. In addition, students train on state of the art equipment to help prepare them for various technical careers.

Traditionally, students attend the Schuylkill Technology Centers during grades 10-12. They spend half a year at one of the technology centers and spend half a year at the home school.

The Senior Elective Program is a new opportunity which allows seniors to spend a half day at the technology center taking technical electives. The other half of the day is spent at the home school where the seniors fulfill their academic requirements for graduation.

Listed below are the courses offered at the Schuylkill Technical Centers:

Advanced Computer Networking	Machine Trade
Agricultural Ed/Horticulture	Marketing
Auto Body Repair	Masonry
Auto Mechanics	Nursing Careers
Carpentry	Occupational Child Care
Computer Aided Drafting and Design	Plumbing
Cosmetology	Residential/Industrial Electricity
Electro Mechanical	Small Engine
Electronics	Welding
Food Preparation	

Business, Marketing & Technology

COURSE TITLE: GENERAL BUSINESS .25 credit

COURSE DESCRIPTION: General Business will introduce students to the world of business and help prepare them for economic roles as consumer, worker, and citizen. The course will also serve as a background for future business courses.

COURSE TITLE: KEYBOARDING/WORD PROCESSING .25 credit

COURSE DESCRIPTION: Students will learn to use the Keyboard using the touch typing method. Emphasis on Keyboarding technique will be stressed to improve speed & accuracy. Micro-type Pro Software will be used to teach. A word processing package will be used to introduce students to the common business documents and styles such as memos, letters, reports and tables. Grammar and language skills will be reinforced through keyboarding activities. Students will be expected to proofread, correct, and type from rough draft copy.

COURSE TITLE: SALESMANSHIP .5 credit

COURSE DESCRIPTION: Students will learn the skills, procedures, and terminology needed to prepare sales presentations, enter an entry-level sales position, and be able to understand the sales environment and career advancement process in both retail and wholesale environments.

COURSE TITLE: CONSUMER EDUCATION .5 credit

COURSE DESCRIPTION: This course will “prepare teenagers for the real world.” Explore the job market and available positions in the office environment, skills needed, how to apply, and prepare for a job interview. Students will learn how to calculate their earnings, figure deductions and net pay. Student will prepare budgets for various financial situations. The budgets will be based on research projects such as planning food/grocery budgets, finding living quarters, finding a job, transportation, and any other necessities/luxuries needed/wanted etc. Students will manage a checking account and know how to reconcile bank accounts. Students will explore the various options associated with investments, insurance, and retirement.

COURSE TITLE: ACCOUNTING I 1 credit

COURSE DESCRIPTION: This course allows the students to apply and develop an appreciation and an understanding for a systematic process for recording, classifying and sorting business data. The course will introduce the student to various business papers in connection with transactions requiring accounting entries. The student will have an opportunity to familiarize themselves with banking procedures and check writing. They will be applying accounting principles for personal use record-keeping and become acquainted with the opportunity offered by accounting as a life work.

COURSE TITLE: ACCOUNTING II

1 credit

COURSE DESCRIPTION: This course is a sequel to Accounting I. The student will apply and continue to develop an appreciation and an understanding for a systematic process for recording, classifying and sorting business data. The course will continue instructions to the student using business papers in connection with transactions requiring accounting-entries. The student will develop an overall understanding for a sole-proprietorship, partnership, and corporation, and will be able to utilize skills in completing projects.

COURSE TITLE: BUSINESS LAW

.5 credit

COURSE DESCRIPTION: Students will learn fundamentals on business law, introducing personal law, criminal law and tort law. Students will also learn legal ethics, employment, credit, banking, bankruptcy, contracts and partnerships.

COURSE TITLE: INTRO. TO FINANCE

.5 credit

COURSE DESCRIPTION: This course allows the students to apply and develop an appreciation and an understanding of the Finance World. The course will introduce the student to various business papers and information. The students will have an opportunity to familiarize themselves with job applications, working papers, payroll register, and income tax returns. They will have a job simulation application on check register, check writing and bank reconciliations. The student will use this knowledge to develop a keen awareness of the financial world and to develop a standard of living to reflect this decision.

COURSE TITLE: MICROSOFT OFFICE APPLICATIONS

.5 credit

COURSE DESCRIPTION: Microsoft Office Application. Students are instructed on Word, Excel, Power Point, and Access.

COURSE TITLE: BUSINESS ENGLISH

.5 credit

COURSE DESCRIPTION: This course provides students with opportunities to practice their writing, grammar, and punctuation skills through business correspondence (letters, memos, business reports, etc.). Oral presentations will reinforce presentation and oral communication skills.

COURSE TITLE: DESKTOP PUBLISHING

.5 credit

COURSE DESCRIPTION: This elective course provides students with opportunities to develop skills in electronic procedures for producing and editing publications. Students will create, format, illustrate, design, edit/revise and print publications. Students will also

learn to scan pictures, produce newsletters, flyers, brochures, business cards, menus, and signs. Utilize the Internet to import graphics.

COURSE TITLE: SMALL BUSINESS MANAGEMENT .5 credit

COURSE DESCRIPTION: This elective course provides students with the entrepreneurial skills to develop business skills through solving problems relative to business situations and to experience the thrill of making decisions critical to maintaining a prosperous business. Learning in the classroom will be enhanced by speakers from the local business world, analyzing case studies, independent and collaborative projects (creating and selling a product to make the largest profit) and online activities simulating the real business experience.

COURSE TITLE: WEB PAGE DESIGN .5 credit

COURSE DESCRIPTION: This elective course provides students with opportunities to learn important topics of HTML, by combining technical skills with design skills to create web pages with graphics, links, and controlling page layout frames. Class experiences include learning the basics of Internet, class discussions, hands-on exercises, and beginning web page creation.

COURSE TITLE: MULTIMEDIA .5 credit

COURSE DESCRIPTION: This elective course provides students with opportunities to learn the key aspects of Multimedia design. Students will learn different processes for multimedia production (Video capture and computer animation), the use of different mediums to portray ideas of the students (e.g., clay and digital media). To enhance the class experience students will participate in class discussions, complete hands-on exercises and the creation of a final multimedia project.

COURSETITLE: OFFICE PROCEDURES .5 credit

COURSE DESCRIPTION: Students will research and create a personalized Business Portfolio (cover letter & resume) to be utilized in their job search/assignment. Students will learn the importance of interviewing in today's work environment and will participate in mock interviews. Other discussion topics will include dressing for success, human relations at work, and professional development.

ENGLISH

COURSE TITLE: 9TH GRADE ENGLISH

1 credit

COURSE DESCRIPTION: Writing: An emphasis on informative, persuasive, narrative, and vocabulary. Literature: Traditional and contemporary literary selections. Short story, Drama, Non-fiction, Poetry, Novel, Epic with many study aids, active reading guides, and a focus on language. Grammar & Usage – work to improve language and usage in speaking and writing.

COURSE TITLE: 10TH GRADE ENGLISH

1 credit

COURSE DESCRIPTION: This course will introduce these students to writing and research and literacy analysis of fiction. This course will develop reading comprehension, analysis, and interpretation skills. It will develop written and oral communication skills. Each student will be challenged to think, to discover facts, examine facts, and evaluate facts in order to form a conclusion based upon evidence of literature, oral statements, and writing.

COURSE TITLE: 11TH GRADE ENGLISH

1 credit

COURSE DESCRIPTION: This course will introduce students to fiction and nonfiction, drama, poetry, novels, speech, composition, and research. It will encourage students to apply knowledge gained through verbal, written, and oral expressions and problem-solving activities.

COURSE TITLE: 12TH GRADE ENGLISH

1 credit

COURSE DESCRIPTION: A survey course in writing and modern literature. The course is geared to improve writing skills and encourage critical thinking.

COURSE TITLE: ADVANCED PLACEMENT ENGLISH

1 credit

COURSE DESCRIPTION: An intense study of Advanced Placement skills and materials in order to prepare the students for the AP English exam (expository writing: narrative, procedure, definition, and comparison/contrast).

COURSE TITLE: LCCC -COMPOSITION & RESEARCH

1 credit

COURSE DESCRIPTION: This course is designed to have students write essays, develop research papers and to master library research skills. Students will strive for sound logic, effective use of details, appropriate diction, and correct use of grammar and mechanics. Students will study models of proper writing, which include student essays

as well as professionally written essays. This course can be taken for college credit and a pass/ fail grade on high school transcripts or for a high school grade and credit only.

COURSE TITLE: LCCC -ANALYSIS OF LITERATURE 1 credit

COURSE DESCRIPTION: This course is designed to provide students with the opportunity to write analytical essays about various literature sources (short stories, drama, novels and poetry). Students will demonstrate their understanding of logical thought processes, effective use of details, correct grammar/mechanics and appropriate use of vocabulary/diction. This course can be taken for college credit and a pass/ fail grade on high school transcripts or for a high school grade and credit only.

COURSE TITLE: LANGUAGE LAB .5 credit

COURSE DESCRIPTION: This elective course provides students with expended remediation in both reading and writing. Students will utilize “MY ACCESS” writing program and Prentice Hall’s Test Preparation Workbook. Students will gain further experience in writing and reading.

COURSE TITLE: CREATIVE WRITING .5 credit

COURSE DESCRIPTION: This elective course will expose the students to a variety of writing styles, including poetry, journaling, reaction/response, short stories, reviews, and prose. Students will practice and develop both self and peer editing skills. Students will implement the use of technology for writing and publishing. A student portfolio will be utilized to capture the student’s work and progress.

MATHEMATICS

COURSE TITLE: ALGEBRA I

1 credit

COURSE DESCRIPTION: Algebra I is a course dealing with the structure and properties of real numbers. Problem solving is introduced in the beginning and is integrated throughout the entire course. Reasoning skills, analyzing information, making conjectures, and working with polynomials and functions are essential parts of the course. Geometric models are used to illustrate abstract algebraic concepts.

COURSE TITLE: GEOMETRY

1 credit

COURSE DESCRIPTION: The term geometry means earth measure. It consists primarily of practical rules for measuring land and buildings. Originally, rules were found by observation and experimentation. This led to the development of a deductive system of mathematical ideas which has a wide range of applications. Studying geometry helps individuals to appreciate the power of logic as a tool to understand the world around them. Geometry gives visual meaning to mathematical concepts.

COURSE TITLE: ALGEBRA II

1 credit

COURSE DESCRIPTION: The second course in algebra is designed to develop a more comprehensive knowledge of this very important field of mathematics. The topics studied begin to make more connections with geometry, the sciences, and a wide variety of problem solving that applies to everyone's daily lives.

COURSE TITLE: MATHEMATICAL FUNCTIONS

.5 credit

COURSE DESCRIPTION: This course involves the student in a comprehensive study of polynomial, rational, and exponential functions. The course is designed to review and summarize important concepts and mathematical ideas by integrating algebraic, geometric, and trigonometric functions. This course is necessary to prepare students to study more advanced math courses such as calculus.

COURSE TITLE: INTRO TO CALCULUS

.5 credit

COURSE DESCRIPTION: This course is an introduction to a branch of mathematics which makes it possible to solve many applied and theoretical problems which may be difficult or impossible to solve by other means. Knowledge of this subject is essential in the physical, biological, social and management sciences. In calculus, functions are the major tools for describing the real world in mathematical terms.

COURSE TITLE: TRIGONOMETRY

.5 credit

COURSE DESCRIPTION: This course begins with a discussion of directed angles and the measurement of these angles using both degree and radian measure. All trigonometric functions are introduced and examined in detail. Trigonometric identities and the methods of proving identities are presented. Special formulas and laws of trigonometry are studied.

COURSE TITLE: PROBABILITY & STATISTICS

.5 credit

COURSE DESCRIPTION: This is a branch of mathematics closely associated with the social and physical sciences. The theory in this course which makes applications in all of the sciences includes techniques, a more formal study of axiomatic probability, and a basic study of physics. The essential feature of statistics is to keep in touch with real needs of the experimental theory both in the sociological and physical fields, and so the utmost use must be made of topical data.

COURSE TITLE: ALGEBRA III

.5 credit

COURSE DESCRIPTION: This course is designed to cover topics that are not covered in Algebra II merely because of time restrictions. This section of algebra becomes more intense and requires individuals to be prepared to study more advanced material dealing with real and complex number systems. Solving equations and problem solving is more intense.

COURSE TITLE: APPLIED MATHEMATICS

.5 credit

COURSE DESCRIPTION: This course combines important topics in an integrated program. It deals with basic skills, consumer, business, and technical applications. It helps students to become prepared to handle the everyday mathematical life skills they will be confronted with for the rest of their lives.

COURSE TITLE: SAT MATHEMATICS PREP

.25 credit

COURSE DESCRIPTION: This course is designed to allow students the opportunity to become adequately prepared to take the math section tests of the SAT. It is intended to make the students aware of what kind of problems in particular they need to concentrate on to enable them to get their best possible score.

COURSE TITLE: TI-83 PLUS GRAPHING CALCULATOR

.25 Credits

COURSE DESCRIPTION: Students will be introduced to the different functions of the TI-83 plus Calculator and how it can help in solving many different types of problems in preparation for the PSSA/SAT tests. Topics to be discussed will involve Basic Mathematics, Algebra, Geometry, Trigonometry, Calculus, and Probability/Statistics.

SCIENCE

COURSE TITLE: MODERN BIOLOGY

1 credit

COURSE DESCRIPTION: The course is designed so that the student will gain an understanding of the major areas of biology, including both cell biology and that of macro organisms.

COURSE TITLE: EARTH AND SPACE SCIENCE

.5 credit

COURSE DESCRIPTION: Students will gain a better understanding of the planet on which they live, and apply the knowledge to their daily lives. From inside the earth to its surface to the surface of planets and stars, geologic time, and massive changes the universe has gone through.

COURSE TITLE: ENVIRONMENTAL SCIENCE

.5 credit

COURSE DESCRIPTION: Provide students with a balanced approach to the diverse study of the environment. The emphasis is the study of science and the development of thinking and decision making skills. The goal is to provide students with the science background they need to analyze for themselves many of the issues concerning our environment.

COURSE TITLE: PHYSICAL SCIENCE

1 credit

COURSE DESCRIPTION: Physical Science is divided into a semester of Physics and a semester of Chemistry topics. The main goal of this course is to develop a basic foundation of skills that will be further developed in Chemistry and Physics. The selected topics provide the student with ample time and practice to develop those skills needed for future success in the sciences.

COURSE TITLE: CHEMISTRY

1 credit

COURSE DESCRIPTION: Chemistry deals with the materials of the universe and the changes and energy requirements associated with matter as it undergoes changes. (Chemistry is the science of matter, energy, and change). This course will lay a foundation as to the fundamental models of Chemistry.

COURSE TITLE: PHYSICS

1 credit

COURSE DESCRIPTION: Physics is the study of metric system; vector analysis, motion and force. All of these are used to understand energy and work.

COURSE TITLE: ORGANIC CHEMISTRY

1 credit

COURSE DESCRIPTION: Organic Chemistry is the chemistry of carbon. This course will cover the names and nomenclature, reactions and preparations of organic compounds, and the mechanisms by which these take place. (Reactions and Preparations) Organic Chemistry is of immense importance to technology. Organic Chemistry is fundamental to Biology and Medicine. Biology or the molecular level is Organic Chemistry. Our goal is to lay foundations for future success in the post science curriculum. Organic Chemistry is highly recommended for students who intend to pursue a career in nursing, medicine, or science related professions. This course meets five periods a week. Prerequisites for this course are eleventh grade inorganic chemistry.

COURSE TITLE: ADVANCED PLACEMENT BIOLOGY

1 credit

COURSE DESCRIPTION: An in depth study of the following biological topics:

Basic Inorganic Chemistry	Respiration
Organic Chemistry	Photosynthesis
Cell Biology	ATP Synthesis
Natural Selection & Evolution	Genetics
Classification of Organisms	Basic Body System 2
Animal Kingdom – Vertebrates & Invertebrates	Prokaryotes and Protists

COURSE TITLE: APPLIED SCIENCE

1 credits

COURSE DESCRIPTION: This course will address various scientific concepts to include biology, chemistry and physics. These concepts will be applied to real life situations and circumstances. An in-depth review and investigation on how and why living and non-living interact will be addressed. A thorough review of career options in each of the scientific fields will be researched. Job shadowing, field trips and laboratory experiments will be used to enhance the learning experience.

COURSE TITLE: BIOLOGY II

1.0 Credit

COURSE DESCRIPTION: This elective course reviews the structures and functions common to all organisms; cell structure and function; the chemical aspects of biological systems, energy and materials balance in nature. The study of animals (both invertebrates and vertebrates) with a detailed emphasis in Human Biology.

COURSE TITLE: CONTEMPORARY ISSUES IN SCIENCE

.5 Credits

COURSE DESCRIPTION: Basic scientific principles are applied to the understanding of current social-scientific problems and how they relate to an individual's personal life. Topics included are weather, space technology, medical technology, new technologies and their impact in science and on society.

COURSE TITLE: ECOLOGY

.5 Credits

COURSE DESCRIPTION: A holistic approach to the study of the biological environment. Emphasis is focused on the natural environment of organisms, particularly as biotic assemblages of these organisms interact with their environments from the concrete levels of organization up to the regional and biome levels. Course content includes a review of Ecology as a Science; the nature of Ecosystems; Laws of Minimum/Tolerances/Medium; Temperature/Precipitation/Climate; Soils/Nutrients/Other Abiotic Factors; Plant/Tree Ecology; Wildlife/Marine/Aquatic Biology and Conservation Efforts.

SOCIAL STUDIES

COURSE TITLE: WORLD HISTORY

1 credit

COURSE DESCRIPTION: World history is a survey course in world history beginning with the decline of the Roman Empire and ending with the present. The main focus of the course deals with historical events centered in Europe but other parts of the world are constantly brought in as they relate as major events during the last fifteen hundred years.

COURSE TITLE: WORLD CULTURES

1 credit

COURSE DESCRIPTION: The Study of World Cultures provides a foundation for students to learn about Asian and African culture as they exist in isolation and in concert. This course teaches students about these different cultures' religions, politics, and social structures. The study of World Cultures also implements the ideas and philosophies of Sociology, the history of African and Asian religions, and literature pertaining to these cultures.

COURSE TITLE: SOCIOLOGY

1 credit

COURSE DESCRIPTION: This course exposes students to basic concepts in the field of Sociology. It is designed to provide students with a broad, interesting, and meaningful introduction to the basic principles of sociology. The second part of the course will focus on current social problems. Students will identify the problem, examine its causes, and seek solutions.

COURSE TITLE: U.S. HISTORY 1865-PRESENT

1 credit

COURSE DESCRIPTION: This is a general survey course which begins with Reconstruction and continues chronologically up to the present.

COURSE TITLE: GEOGRAPHY

.5 credit

COURSE DESCRIPTION: This is a political geography course covering the world's bodies of water and continents. National boundaries, capitals, mountains, lakes and rivers will be identified.

COURSE TITLE: AMERICAN GOVERNMENT

.5 credit

COURSE DESCRIPTION: This will be a survey course for all students. Each student will be encouraged to explore the "nuts & bolts" of the constitution, the makeup and operation of Congress, executive and judicial branches. Political parties and elections will also be covered. The student will be assigned outside readings, research papers, along with oral presentations. Media such as newspapers, weekly news periodicals, video and computers will enrich the students' learning environment.

COURSE TITLE: ECONOMICS

.5 credit

COURSE DESCRIPTION: A survey course for all students in our school. Students will be taught the impact economics has on their lives. Commonplace economics will be enriched with academic topics to stimulate the interest of the students. Outside readings, research papers, oral presentations, and current events will be assigned. Discussion will be encouraged at all times.

COURSE TITLE: PSYCHOLOGY

1 credit

COURSE DESCRIPTION: Introduction to the study of human behavior with emphasis on the specific approaches and empirical bases of motivation, emotion, learning, perception, intelligence, personality, individual differences, and the biological inheritance and social environment of human beings. To provide the student with the necessary background to allow him/her to enroll in advanced psychology and related courses. Secondary objectives include having the students improve their critical thinking skills, increase their personal insights into their own psychological development and be able to utilize this acquired knowledge in applied situations in their lives and in their interactions with other people.

COURSE TITLE: POLITICAL/SOCIAL/ECONOMIC ISSUES

.5 credit

COURSE DESCRIPTION: This elective course will provide students with opportunities to recognize, analyze, and evaluate the current activities and events of the United States and the world focusing on the political, social and economic sectors. Standards and objectives will be integrated through the reading of selected magazine/newspaper articles, videos of the world news, computer programs, role-playing activities, simulations and research projects (individual/group).

COURSE TITLE: SOCIAL ISSUES & ATTITUDES

.25 Credit

COURSE DESCRIPTION: This course will focus on issues in American society today that create an immediate or lasting effect on teenagers, such as substance abuse and recovery, gangs, violence, bullying, intolerance, etc. In addition to this macro issue in society, this course will address and examine individual issues affecting teenagers today, such as anger, resentment, motivation, and poor-self image and its impact on behavior.

ARTS AND HUMANITIES

COURSE TITLE: ART I .5 credit

COURSE DESCRIPTION: This course will include drawing, painting, lettering, making things from clay, fundamentals of design, etc. Each student will have the responsibility to select, arrange, decorate, and create in various projects, and will be provided the opportunity to observe and discuss various art subjects.

COURSE TITLE: ART II .5 credit

COURSES DESCRIPTION: Students will explore sculpture, photography, printmaking, design problems, drawing, etc. Art I or teacher approval a prerequisite.

COURSE DESCRIPTION: 2D ART DESIGN .25 credit

COURSE DESCRIPTION: This course provides students with opportunities to study how the elements and principles of art influence perception and personal expression. Students will explore various techniques for using pencil, charcoal, pastel, marker, watercolor and acrylic paints. This course will give students experience in conceptualizing, visualizing and executing two-dimensional designs.

COURSE DESCRIPTION: 3D ART DESIGN .25 credit

COURSE DESCRIPTION: This course provides students with the opportunity to study how the elements and principles of art influence perception and personal expression. Students will explore various techniques in three-dimensional design to include clay, weaving, jewelry design, basketry, bookbinding and more. The course will afford students experiences in conceptualizing, visualizing and executing three-dimensional designs.

COURSE DESCRIPTION: LCCC ART 101 1 credit

DESCRIPTION: This course surveys painting, sculpture, architecture and other related art forms of Western culture with the consideration of the aesthetic, historical and technical significance of major artistic achievements.

COURSE DESCRIPTION: MARCHING AND CONCERT BAND .5 credit

COURSE DESCRIPTION: This course provides the opportunity for talented and experienced instrumentalists to participate in ensemble and large group instruction and performance. The first nine weeks members will participate in marching band. The second, third and fourth quarters will be devoted to the rehearsal and performance of various concert band repertoire, with exception of community functions where marching band is required (parades, ceremonies, etc.). Public performances are expected since this course is both a fine and performing art.

COURSE TITLE: MUSIC APPRECIATION .25 credit

COURSE DESCRIPTION: This course is designed to cover a broad spectrum of musical concepts. Students will learn about musical styles, time periods, and genres. From this knowledge students will be challenged to relate music from the past to the present. Students will also learn how to perform on a variety of musical instruments. This is a hands-on experience where students will not only perform, but also compose and read music. And finally, students will learn a rich vocabulary, which will be used to discuss and critique musical excerpts in class.

COURSE TITLE: MUSIC THEORY .5 credit

COURSE DESCRIPTION: This course is designed to cover a variety of musical concepts and skills, which will be useful in college as a music student or in practice as a professional musician. Students will learn to identify pitch and rhythms by ear, keyboard skills, music theory concepts, and orchestration. Students are expected to keep a notebook for the entire year. It is up to the student to organize his/her notebook so that information can be retrieved quickly.

COURSE TITLE: LIBRARY RESEARCH SKILLS .25 credit

COURSE DESCRIPTION: To provide guidance and personal knowledge in the effective and proficient use of the resources in our School Library Media Center. Completion of this course will provide the skills necessary to utilize school, public, and college libraries efficiently. Our students will be able to help other students within any type of library with complete confidence.

COURSE TITLE: PUBLICATION MANAGEMENT 1 credit

COURSE DESCRIPTION: The specifics of managing a publication are explored through the production of the Mahanoy Area yearbook and newspaper.

COURSE TITLE: PUBLIC SPEAKING .5 credit

COURSE DESCRIPTION: It is the intent of this course to teach public speaking skills that can help make a difference in the many speaking situations the students will face. The challenge will be made both interesting and intimidating by studying the many aspects of human nature and human communications.

WORLD LANGUAGES

COURSE TITLE: SPANISH I 1 credit

COURSE DESCRIPTION: Basic phrases for first year conversation; General information about the countries introduced in text; Grammar-nouns, articles, pronouns, adjectives, present and preterite tense; progressive.

COURSE TITLE: SPANISH II 1 credit

COURSE DESCRIPTION: A continuation of Spanish I including knowledge of various Spanish-speaking areas and a continuation of grammar to include: commands, irregular preterite, imperfect tense (regular and irregular), subjunctive mood, negatives, future tense, conditional tense. Conversation depends on subjects covered.

COURSE TITLE: SPANISH III 1 credit

COURSE DESCRIPTION: More in-depth cultural information. A review of grammar already covered, and the teaching of grammar not covered in Spanish I and II such as the perfect tenses and the tenses in the subjunctive mood. Also, there will be an introduction to actual works of literature.

COURSE TITLE: SPANISH IV 1 credit

COURSE DESCRIPTION: Most in-depth cultural information. A review of grammar already covered, and the teaching of grammar not covered in Spanish I II or III.

COURSE TITLE: FRENCH I 1 credit

COURSE DESCRIPTION: Emphasis is on building a basic vocabulary which includes common verbs, adjectives, greetings, numbers, colors, clothing, animals, body parts, foods, days, months, seasons, weather. Culture and Civilization lessons pertaining to France will also be included.

COURSE TITLE: FRENCH II 1 credit

COURSE DESCRIPTION: Emphasis is on conversing via reading short stories, speaking in selected situations (at a garage, at the movies, etc.) and advancing in proficiency of use of regular and irregular verbs in the present, past, and future tenses.

COURSE TITLE: FRENCH III

1 credit

COURSE DESCRIPTION: More emphasis is on conversing via reading short stories, speaking in selected situations and advancing in proficiency of use of regular and irregular verbs in the present, past, and future tenses.

COURSE TITLE: FRENCH IV

1 credit

COURSE DESCRIPTION: Most emphasis is on conversing via reading short stories, speaking in selected situations (at a garage, at the movies, etc.) and advancing in proficiency of use of regular and irregular verbs in the present, past, and future tenses.

PHYSICAL EDUCATION/HEALTH

COURSE TITLE: PHYSICAL EDUCATION .25 Credit

COURSE DESCRIPTION: It is our hope and goal that students will learn the value and meaning of sound body and mind. This would include the teaching and doing of aerobics for cardiovascular benefits. Also important is a background for lifetime sports to be given to the students. Students will also demonstrate ability to work cooperatively in team sports.

COURSE TITLE: HEALTH .25 credit

COURSE DESCRIPTION: To provide the students with the well-being of their body, their mind and their relationships with other people.

COURSE TITLE: ANATOMY/PHYSIOLOGY 1 credit

COURSE DESCRIPTION: To identify the anatomical structures of the human body. To understand the working of the nine systems of the human body.

COURSE TITLE: CURRENT TRENDS IN HEALTH .5 credit

COURSE DESCRIPTION: This course will examine current trends in the personal health and health care fields. Students will utilize up to date information, methodologies and concepts to evaluate their health status, as well as providing current information in the health field. Mastery of this course will provide students with the concepts needed to maintain a healthy lifestyle.

COURSE TITLE: AQUATICS/INTRO TO LIFEGUARDING .5 credit

COURSE DESCRIPTION: This course will cover two basic types of aquatic fitness programs: fitness swimming and aquatic exercise. Aquatics will provide participants with aerobic training as well as cardiovascular, strength, and endurance training while providing an increase in flexibility. Fitness swimming will utilize workouts using swimming strokes to reach a specified level of intensity sustained for a set time thus providing an excellent way to improve overall physical fitness.

COURSE TITLE: ANATOMY II .5 credit

COURSE DESCRIPTION: This course will cover the physiology of the systems and provide an understanding of the function of the parts of the system to the human body. The course will also work on the identification of the movements of the human body. The course will analyze movements and interpret the parts and the systems used in them.

Industrial Technology

COURSE TITLE: COMPUTER AIDED DESIGN (CAD)

.5 credit

COURSE DESCRIPTION: This course is designed to expose students to beginning drafting concepts through the use of computer aided-drafting (CAD). This course is intended to expose students to current practices available in the fields of engineering, drafting, interior designing and pre-architectural fields. The primary emphasis of the course is learning fundamental drafting standards and conventions. Topics of instruction will include line and geometric shapes, sketching using basic CAD commands, and basic 3-D wire frames and architectural drawings.

COURSE TITLE: TECHNOLOGY EDUCATION

.5 credit

COURSE DESCRIPTION: Technology Education is a course that allows multiple topics to be covered at the same time. Students who will work in groups learn about Space & Rocketry, Animation, Desktop Publishing, Computer Aided Design, Fluid Power, Electronics, Flight Simulation, Robotics, and Aerodynamics. Students can learn at their own pace as they gain knowledge through Multimedia Computer Technology and receive hands on experience through workbook activities and group activities such as flying rockets, designing & testing their own car, flying on an airplane simulator, wiring circuits, etc.

FAMILY CONSUMER SCIENCE

COURSE TITLE: FAMILY AND CONSUMER SCIENCE

.5 credit

COURSE DESCRIPTION: This course combines classroom and laboratory activities and is designed to introduce the freshman student to the fascinating world of foods and nutrition. The Food Guide Pyramid, with in depth study of certain individual food groups, sound consumer practices, safety in food preparation and handling are emphasized. Social skills and etiquette centered around food are investigated. Proper nutrition to promote wellness throughout the life cycle and the Dietary Guidelines for Americans are studied. The nutritional, social, cultural and economic aspects of food are integrated throughout the semester course.

COURSE DESCRIPTION: PARENTING

.5 Credit

COURSE DESCRIPTION: This course provides students with opportunities to examine the benefits and consequences of family, work, or career decisions. Students will explore the daily activities that fulfill family functions in meeting responsibilities (e.g., economic, emotional support, childcare and guidance, housekeeping, maintaining kinship, and leisure lifestyles). They will identify developmental life stages (infancy, preschool, school-age, adolescence, adult and senior citizen). Students will also be required to compare and contrast child development guided practices in accordance with child development stages. Identify the role of caregiver in providing a learning environment. Review and identify characteristics of quality literature for children and other literacy enhancing activities.

COURSE TITLE: MARRIAGE & FAMILY LIVING

.5 credit

COURSE DESCRIPTION: The course will enable students to focus on the family as the foundation for a strong society. It incorporates current family issues, and involves students in content and activities that assist them in accepting responsibility, developing academic skills, thinking skills, and strengthening values.