
MARPLE NEWTOWN HIGH SCHOOL

2013-2014



Course Selection Guide

MISSION STATEMENT

To provide state of the art educational opportunities for all students in a safe, healthy and effective learning environment through a collaborative commitment involving students, families, staff, and community.



EQUAL RIGHTS AND OPPORTUNITIES POLICY

With the aim of assuring equal rights and opportunities within our school community, and to comply with the federal laws (including Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, Title VI of the Civil Rights Act of 1964 and OCR Guidelines IV-0, State laws and State Department of Education regulations concerning same, the Marple Newtown School District declares itself to be an equal rights and opportunities employer. As such, it does not discriminate against individuals or groups because of race, color, national origin, religion, age, sex, marital status, or non-relevant handicaps. Marple Newtown School District's commitment to non-discrimination extends to students, employees and the community.

Marple Newtown High School

COURSE SELECTION GUIDE 2013-2014

Table of Contents

Letter from the Principal.....	3
Administration	3
District Supervisors.....	3
Guidance Counselors	3
The Curriculum.....	4
Curriculum Levels	4
Additional Course Offerings.....	4
Graduation Requirements	5
Course Offerings.....	6-10

COURSE DESCRIPTIONS:

Health and Physical Education	11
English	15
Social Studies.....	21
Mathematics	26
Science	31
World Language.....	35
Applied Arts.....	39
Visual and Performing Arts	43
Career Education.....	50
Distance Learning/Dual Enrollment/Technical Schools.....	51
Additional Academic Information	53
Scheduling Worksheets.....	55
Electives Sheet	59

Dear Students,

High school marks the final stage of your required public education. Therefore, its purpose is twofold: to prepare you for post-graduation pursuits and to help you develop and refine critical thinking processes and skills. Both are integral to a successful future as a responsible and contributing member of society.

Education in twenty-first century America requires that students are provided with ample knowledge of the changing world and the skills to navigate a clear course into the future. Marple Newtown High School is committed to ensuring that every student has the opportunity to chart a path for personal success and achievement.

Towards that end, members of the entire Marple Newtown High School community have been involved in the creation of this guide. The courses described in the pages that follow take into consideration a variety of educational and career options towards meeting graduation requirements. We encourage you to peruse these pages carefully and make choices that reflect your needs, abilities, and interests. Our Guidance Counselors will assist and guide you in the course selection process and it begins right now.

Dr. McFall, Principal

ADMINISTRATION

610-359-4215

Dr. Ray McFall	Principal	610-359-4218
Mr. John Beltrante	Assistant Principal	610-359-4293
Mr. Dennis Reardon	Assistant Principal/Athletic Director	610-359-4232
Dr. Tina Sweeley	Assistant Principal	610-359-4244

DISTRICT SUPERVISORS

Dr. Toni Himes	Language Arts	610-359-4278
Mrs. Suzanne Mecouch	Science, Health & PE, Family and Consumer Sciences	610-359-4236
Dr. Lara Munch	World Language	610-359-4320 x6574
Ms. Sandra Schaal	Social Studies, Art, Music	610-359-4234
Mr. Rich Slonaker	Math, Tech Ed, Bus Ed	610-359-2884

GUIDANCE COUNSELORS

610-359-4240

Secretaries: Mrs. Leslie Feerick, Mrs. Jeanne Slata

Mrs. Karen Brodsky	A - Dd	610-359-4225
Mrs. Kelly McCool	De - H	610-359-4241
Mr. Shane Elison	I - Mn	610-359-4229
Mrs. Jennifer Cipollone	Mo - Sg	610-359-4233
Ms. Tracy Jacobson	Sh - Z	610-359-4246

THE CURRICULUM

The curriculum of the Marple Newtown High School is broad and varied. Courses are offered at the College Preparatory and Advanced levels as noted below. In addition, Special Education courses are offered in Life Skills, direct instruction, and co-teaching environments. The program of studies provides opportunities for all learners to acquire the knowledge and skills necessary to become productive and responsible citizens.

The ability, achievement, and interest of the students all have a significant bearing on academic performance. In English, Mathematics, Social Studies, Science, and World Language, students will be recommended for the class in which the professional staff feels they can best succeed and maximize their potential.

All classes prepare students for success at MNHS, in college, and in the work force. Students with high scholastic attainment may enroll in honors or advanced placement classes. Honors classes will typically differ from College Preparatory classes in pace, breadth, and depth. The Advanced Placement Program presents actual college level coursework in the high school. The recommendation of a student for a given level will be made by teachers, who are in a position to evaluate the ability and performance. Students and parents review recommendations, and classes are selected through the counsel and assistance of the Guidance Department. The completed course request process and verification period represents firm course selections.

CURRICULUM LEVELS

College Preparatory:

- **Core** – in these courses, students learn, study, and evaluate the foundational principles, ideas, terms, and concepts of a particular subject. This core curriculum provides the foundation of learning, upon which all other courses build.
- **College Preparatory** – these courses are appropriate for students with average to above average skills and abilities who intend to further their education and who can accept the challenges of a rigorous curriculum.

Advanced:

- **Honors** – these courses are appropriate for students with above average skills and abilities who can accept a fast-paced and challenging course of study.
- **Advanced Placement** – these demanding courses present college level coursework and are most appropriate for students who can accept the demands of a comprehensive, fast-paced, and highly challenging program. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

()Weighted Course* – Weighted courses earn seven extra points toward the calculation of class rank. For example if a student earns an 84 in a weighted course, the grade of 84 will appear on the report card, but with the addition of seven additional points, a score of 91 will be used for the calculation of class rank.

ADDITIONAL COURSE OFFERINGS

As a result of increased technology and positive community relationships, additional courses which appear on the following pages may be offered to our students. Opportunities will be announced through our Guidance Department as well as the appropriate academic department(s). Prerequisites exist and enrollment is often limited. Such courses include, but are not limited to:

Dual Enrollment – Students are jointly enrolled at both MNHS and a local college and earn both high school and college credit for courses taken.

Distance Learning – Through interactive technology, students participate in classes at a remote location.

No changes to a student's course requests will be considered after

June 28, 2013

Once classes have begun, requests to change course level or to withdraw from a course will not be considered until the conclusion of the first marking period. In the case of a course level change, the first marking period grade will follow the student to the new class. Transcripts and report cards will reflect either WP - withdraw passing or WF - withdraw failing.

GRADUATION REQUIREMENTS

Courses		Credits
Health/Physical Education		2.5
Health	1.0	
Phys Ed	1.5	
English		4
Social Studies		4
Mathematics	3.0 min	
Science	3.0 min	
Math/Sci Combined		7
World Language		1
Electives		6.5
Applied Arts	1.0	
Arts	1.0	
Other Electives	4.5	
Senior Project		1
Total		26

Grade Promotion	Credits
9th	6.5
10th	13
11th	18.5

Keystone Exams

Students are required to attain proficiency, as defined by the Commonwealth of Pennsylvania on the Keystone exams. Current interpretation would be Proficient or higher on the Algebra I and Literature Keystone Exams. Students who do not eventually achieve a score of Proficient or higher will participate in a district based remediation program prior to graduation. Any policy developed by the Pennsylvania Department of Education regarding the Keystone exams and graduation requirements will supersede the district policy.

Course Offerings

Marple Newtown High School COURSE OFFERINGS 2013-2014

Courses are listed numerically, by department.

** = Weighted Courses*

HEALTH AND PHYSICAL EDUCATION

Course	Course Name	No. of Semesters	Grade	Credit
0450	Physical Education	1	9	0.5
0451	Health I	1	9	0.5
0650	Physical Education	1	10, 11, 12	0.5
0651	Health II	1	10, 11, 12	0.5
0870	Strength Training	1	10, 11, 12	0.5
0871	Life Guard/First Aid	1	10, 11, 12	0.5
0872	Advanced Team Sports	1	10, 11, 12	0.5
0873	Aquatics II	1	10, 11, 12	0.5
0892	Cardio Training	1	10, 11, 12	0.5
0893	Nets	1	10, 11, 12	0.5
0894	Athletic Leadership and Coaching	1	11, 12	0.5
0895	Recreational Physical Education	1	10, 11, 12	0.5

ENGLISH

Course	Course Name	No. of Semesters	Grade	Credit
1410	English 9: Literary Genre - Honors*	2	9	1.0
1420	English 9: Literary Genre	2	9	1.0
1430	English 9: Literary Genre	2	9	1.0
1510	English 10: World Literature I - Honors*	2	10	1.0
1515	Humanities - Honors	2	10	2.0
1520	English 10: World Literature I	2	10	1.0
1530	English 10: World Literature I	2	10	1.0
1610	English 11: American Literature - Honors	2	11	1.0
1614	English 11: English Language & Comp. - AP*	2	11	1.0
1615	American Studies - Honors	2	11	2.0
1620	English 11: American Literature	2	11	1.0
1630	English 11: American Literature	2	11	1.0
1710	English 12: World Literature II - Honors	2	12	1.0
1715	English 12: World Literature - AP*	2	12	1.0
1720	English 12: World Literature II	2	12	1.0
1730	English 12: World Literature II	2	12	1.0
1830	Reading Strategies	2	9	1.0
1841	Reading Support	2	10, 11, 12	1.0
1835	Keystone Exam Preparation	1	11, 12	0.5
1870	Poetry	1	9, 10, 11, 12	0.5
1871	Theater as Living Art	1	9, 10, 11, 12	0.5
1872	Cinema Development and Appreciation	1	9, 10, 11, 12	0.5
1873	Speech	1	9, 10, 11, 12	0.5
1874	Journalism I	1	9, 10, 11, 12	0.5
1875	Creative Writing	1	9, 10, 11, 12	0.5
1876	Journalism II	1	9, 10, 11, 12	0.5
1878	Women's Literature of the Americas	1	9, 10, 11, 12	0.5
1883	Reading Olympics	1	9, 10, 11, 12	0.5
1884	SAT Prep: Reading/Writing	1	10, 11, 12	0.5
1961	English Language Learners I	2	9, 10, 11, 12	1.0
1962	English Language Learners II	2	9, 10, 11, 12	1.0
1963	English Language Learners III	2	9, 10, 11, 12	1.0
1964	English Language Learners Support	2	9, 10, 11, 12	1.0

Course Offerings

Marple Newtown High School COURSE OFFERINGS 2013-2014

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SOCIAL STUDIES

Course	Course Name	No. of Semesters	Grade	Credit
1515	Humanities - Honors	2	10	2.0
1615	American Studies - Honors	2	11	2.0
2410	World Civilizations & Cultures I - Honors*	2	9	1.0
2420	World Civilizations & Cultures I	2	9	1.0
2430	World Civilizations & Cultures I	2	9	1.0
2515	World History - AP*	2	10	1.0
2510	Modern European History - AP*	2	10	1.0
2520	World Civilizations & Cultures II	2	10	1.0
2530	World Civilizations & Cultures II	2	10	1.0
2610	United States History - AP*	2	11	1.0
2620	20 th Century America	2	11	1.0
2630	20 th Century America	2	11	1.0
2710	Macro Economics - AP*	2	12	1.0
2715	U.S. Government and Politics - AP*	2	12	1.0
2720	Political and Economic Issues	2	12	1.0
2730	Political and Economic Issues	2	12	1.0
2810	Psychology - AP*	2	10, 11, 12	1.0
2870	Sociology	1	10, 11, 12	0.5
2871	Psychology	1	10, 11, 12	0.5
2872	America's Civil Wars	1	9, 10, 11, 12	0.5
2873	World War II and The Vietnam War	1	9, 10, 11, 12	0.5
2874	International Relations	1	9, 10, 11, 12	0.5
2875	The Civil Rights Movement	1	9, 10, 11, 12	0.5
2877	The Presidents as People	1	9, 10, 11, 12	0.5
2878	Leadership and Character	1	9, 10, 11, 12	0.5

MATHEMATICS

Course	Course Name	No. of Semesters	Grade	Credit
3410	Algebra I - Honors*	2	9, 10, 11, 12	1.0
3420	Algebra I	2	9, 10, 11, 12	1.0
3510	Geometry - Honors*	2	9, 10, 11, 12	1.0
3520	Geometry	2	9, 10, 11, 12	1.0
3610	Algebra II - Trigonometry - Honors*	2	9, 10, 11, 12	1.0
3620	Algebra II - Trigonometry	2	9, 10, 11, 12	1.0
3630	Algebra II	2	9, 10, 11, 12	1.0
3710	Pre-Calculus - Honors*	2	9, 10, 11, 12	1.0
3711	Discrete Math - Honors*	2	9, 10, 11, 12	1.0
3712	Statistics - AP*	2	9, 10, 11, 12	1.0
3713	Calculus AB - AP*	2	9, 10, 11, 12	1.0
3714	Calculus BC - AP*	2	9, 10, 11, 12	1.0
3715	Computer Science A - AP*	2	9, 10, 11, 12	1.0
3716	Intro to Computer Science I	1	9, 10, 11, 12	0.5
3717	Intro to Computer Science II	1	9, 10, 11, 12	0.5
3720	Pre-Calculus	2	9, 10, 11, 12	1.0
3721	Trigonometry	1	9, 10, 11, 12	0.5
3722	Introduction to Statistics	1	9, 10, 11, 12	0.5

Course Offerings

Marple Newtown High School COURSE OFFERINGS 2013-2014

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MATHEMATICS (continued)

Course	Course Name	No. of Semesters	Grade	Credit
3723	Statistics	2	9, 10, 11, 12	1.0
3724	SAT Prep: Math	1	10, 11, 12	0.5
3725	Financial Literacy	1	9, 10, 11, 12	0.5
3726	Logic	1	9, 10, 11, 12	0.5
3830	Algebra I Support	1 or 2	9, 10, 11, 12	0.5 or 1.0
3841	Geometry Support	1 or 2	9, 10, 11, 12	0.5 or 1.0
3835	Algebra I Keystone Support	1 or 2	9, 10, 11, 12	0.5 or 1.0

SCIENCE

Course	Course Name	No. of Semesters	Grade	Credit
4410	Integrated Science - Honors*	2	9	1.0
4420	Integrated Science	2	9	1.0
4430	Integrated Science	2	9	1.0
4510	Biology - Honors*	2	9, 10	1.0
4515	Biology - AP*	2	11, 12	1.5
4520	Biology	2	10	1.0
4530	Biology	2	10	1.0
4610	Chemistry - Honors*	2	10, 11	1.0
4615	Chemistry - AP*	2	12	1.5
4616	Environmental Science - AP*	2	12	1.5
4620	Chemistry	2	11	1.0
4630	Chemistry	2	11	1.0
4710	Physics - Honors*	2	11, 12	1.0
4715	Physics - AP*	2	12	1.5
4720	Physics	2	12	1.0
4730	Physics	2	12	1.0
4831	Environmental Science	1	11, 12	0.5
4832	Forensic Science	1	11, 12	0.5

WORLD LANGUAGE

Course	Course Name	No. of Semesters	Grade	Credit
5320	Spanish I	2	9, 10, 11, 12	1.0
5321	French I	2	9, 10, 11, 12	1.0
5420	Spanish II	2	9, 10, 11, 12	1.0
5421	French II	2	9, 10, 11, 12	1.0
5520	Spanish III	2	9, 10, 11, 12	1.0
5521	French III	2	9, 10, 11, 12	1.0
5610	Spanish IV - Honors*	2	9, 10, 11, 12	1.0
5611	French IV - Honors*	2	9, 10, 11, 12	1.0
5620	Spanish IV	2	9, 10, 11, 12	1.0
5621	French IV	2	9, 10, 11, 12	1.0
5710	Spanish V - Honors*	2	10, 11, 12	1.0
5711	French V - Honors*	2	10, 11, 12	1.0
5713	Spanish Language and Culture - AP*	2	11, 12	1.0
5715	Advanced Spanish Studies - Honors*	2	11, 12	1.0
5716	French Language and Cultures - AP*	2	11, 12	1.0

Course Offerings

Marple Newtown High School COURSE OFFERINGS 2013-2014

Courses are listed numerically, by department.

** = Weighted Courses*

APPLIED ARTS

COMMUNICATIONS AND TECHNOLOGY

Course	Course Name	No. of Semesters	Grade	Credit
6460	Computer Applications	1	9, 10, 11, 12	0.5
6860	Elements of Engineering I	1	9, 10, 11, 12	0.5
6861	Elements of Engineering II	1	9, 10, 11, 12	0.5
6865	Video Production and Broadcasting	1	9, 10, 11, 12	0.5
6870	Graphic Design I	1	9, 10, 11, 12	0.5
6871	Graphic Design II	1	9, 10, 11, 12	0.5
6872	Drafting/CAD I	1	9, 10, 11, 12	0.5
6873	Drafting/CAD II	1	9, 10, 11, 12	0.5
6970	Business Law I	1	9, 10, 11, 12	0.5
6971	Business Law II	1	9, 10, 11, 12	0.5
6972	Accounting I	1	9, 10, 11, 12	0.5
6973	Sports and Entertainment Marketing	1	9, 10, 11, 12	0.5

FAMILY AND CONSUMER SCIENCES

Course	Course Name	No. of Semesters	Grade	Credit
6770	Child Development	1	9, 10, 11, 12	0.5
6771	Preschool Lab	1	10, 11, 12	0.5
6780	Culinary Arts I	1	9, 10, 11, 12	0.5
6781	Culinary Arts II	1	10, 11, 12	0.5
6782	Culinary Arts III	1	11, 12	0.5

VISUAL AND PERFORMING ARTS

PHOTOGRAPHY

Course	Course Name	No. of Semesters	Grade	Credit
6890	Photography I	1	9, 10, 11, 12	0.5
6891	Photography II	1	9, 10, 11, 12	0.5
6892	Photography III	1	10, 11, 12	0.5
6893	Digital Imaging I	1	9, 10, 11, 12	0.5
6894	Digital Imaging II	1	9, 10, 11, 12	0.5
7910	Studio Art - AP* Drawing/Photo/Digital/3D	2	11, 12	1.0

ART

Course	Course Name	No. of Semesters	Grade	Credit
7910	Studio Art - AP* Drawing	2	11, 12	1.0
7911	Studio Art - AP* 3D	2	11, 12	1.0
7912	Studio Art - AP* Photo	2	11, 12	1.0
7913	Studio Art - AP* Digital	2	11, 12	1.0
7970	Painting and Drawing	1	9, 10, 11, 12	0.5
7971	Visual Art	1	9, 10, 11, 12	0.5
7972	Decorative and Functional Art	1	9, 10, 11, 12	0.5
7973	Three Dimensional Design	1	9, 10, 11, 12	0.5
7975	Illustration and Cartooning	1	9, 10, 11, 12	0.5
7980	Studio Art I	2	9, 10, 11, 12	1.0
7981	Studio Art II	2	10, 11, 12	1.0
7991	Ceramics I	1	9, 10, 11, 12	0.5
7992	Ceramics II	1	10, 11, 12	0.5

Course Offerings

Marple Newtown High School COURSE OFFERINGS 2013-2014

Courses are listed numerically, by department.

** = Weighted Courses*

VISUAL AND PERFORMING ARTS (*continued*)

MUSIC

Course	Course Name	No. of Semesters	Grade	Credit
7560	Introduction to Piano	1	9, 10, 11, 12	0.5
7561	Introduction to Guitar	1	9, 10, 11, 12	0.5
7810	Music Theory - AP*	2	10, 11, 12	1.0
7870	Music Theory	1	9, 10, 11, 12	0.5
7873	Music Business	1	9, 10, 11, 12	0.5
7874	American Music Theater	1	9, 10, 11, 12	0.5
7880	Band	2	9, 10, 11, 12	1.0
7882	Orchestra	2	9, 10, 11, 12	1.0
7883	Choir	2	9, 10, 11, 12	1.0
7884	Small Ensemble - Jazz Lab Band	1	9, 10, 11, 12	0.5
7885	Small Ensemble - Percussion	1	9, 10, 11, 12	0.5
7886	Small Ensemble - Beginning Instrumental	1	9, 10, 11, 12	0.5
7887	Small Ensemble - ACapella Singers	1	9, 10, 11, 12	0.5

CAREER EDUCATION

Course	Course Name	No. of Semesters	Grade	Credit
9600	Junior Initiative	1	11	0.5
9700	Senior Project	1	12	1.0
9760	Work Experience	1	11, 12	n/a
9761	Service Learning	1	12	0.5
9880	Technical Program	2	10, 11, 12	3.5

HEALTH AND PHYSICAL EDUCATION

Health and Physical Education are integral parts of the total educational process at Marple Newtown High School. Through selected experiences and activities, Physical Education contributes to the growth and development of all students in the physical, intellectual, social, and emotional dimension of each individual. Health Education provides instruction in the concept of wellness and offers students several opportunities to develop lifelong health-enhancing behaviors by promoting health literacy, critical thinking, and responsible decision-making throughout the curriculum. The Health and Physical education program prepares students to become contributing and productive members of our rapidly changing, democratic society.

HEALTH AND PHYSICAL EDUCATION DEPARTMENT RECOMMENDED SEQUENCE OF COURSES

REQUIRED COURSES ()**

Grade 9	Grade 10
Physical Education (0450)** Health I (0451)**	Physical Education (0650) Strength Training (0870) Lifeguarding/First Aid (0871) Advanced Team Sports (0872) Aquatics II (0873) Cardio Training (0892) Nets (0893) Recreational Physical Education (0895)
Grade 11	Grade 12
Physical Education (0650) Health II (0651)** Strength Training (0870) Lifeguarding/First Aid (0871) Advanced Team Sports (0872) Aquatics II (0873) Cardio Training (0892) Nets (0893) Athletic Leadership and Coaching (0894) Recreational Physical Education (0895)	Physical Education (0650) Strength Training (0870) Lifeguarding/First Aid (0871) Advanced Team Sports (0872) Aquatics II (0873) Cardio Training (0892) Nets (0893) Athletic Leadership and Coaching (0894) Recreational Physical Education (0895)

CORE HEALTH AND PHYSICAL EDUCATION COURSES

PHYSICAL EDUCATION

0450

Semester/0.5 credit

Grade 9

The ninth grade Skill Instruction Program includes the teaching of fundamental skills used in team sports and individual sports activities. Students are drilled in the fundamental skills, rules, and basic strategies of these athletic activities. In addition, each student must participate in a required aquatics module included within this course. The aquatics requirement for graduation combines an assessed proficiency in aquatic skills along with a demonstration of safety awareness and behaviors near and in the water. The aquatics module is coeducational. The course is taught by a certified instructor.

HEALTH I

0451

Semester/0.5 credit

Grade 9

The quality of a human's life is determined by the combination of personal choices, genetics, and the environment. The ninth grade Health Education course studies content in the areas of safety, nutrition, disease and disorders, personal health, growth and development, human interactions, and drugs and alcohol. Community resources provide current information and awareness on the topics of HIV/AIDS and sexual assault/harassment. Content is presented using a variety of strategies to provide students with information and skills as well as many opportunities for practical application of knowledge on a personal level.

PHYSICAL EDUCATION

0650

Semester/0.5 credit

Grade 10, 11, 12

This course includes participation in team activities, individual sports activities, various leisure-time activities, recreational lifetime, and carry over activities. The primary emphasis for the students is participation in these activities. Skills and fundamentals will also be reviewed.

Note: Students are not limited to this course. Any Physical Education elective course offered may satisfy this course requirement.

HEALTH II

0651

Semester/0.5 credit

Grade 10, 11, 12

The quality of a human's life is determined by the combination of personal choices, genetics, and the environment. The eleventh grade Health Education program studies content from an adult's perspective in the areas of safety, nutrition, disease and disorders, personal health, growth and development, human interactions, and drugs and alcohol. Community resources provide updated information and awareness on the topics of HIV/AIDS, sexual assault/harassment/violence, and sexual abstinence.

HEALTH AND PHYSICAL EDUCATION ELECTIVES

The Health and Physical Education Department offers a variety of electives designed to encourage students to explore areas of concentration in physical education. These courses may be used to fulfill the Physical Education graduation requirements. Elective courses are available for students in grades 10, 11, and 12.

STRENGTH TRAINING

0870 Semester/0.5 credit Grade 10, 11, 12

This course consists of weight training and flexibility training. The use of free weights, selectorized machines, and hammer machines will be included for training. The weight training module will be divided into two segments: Core and auxiliary lifts. Core lifts are exercises that target more than one muscle group, such as a squat, clean, bench press, and deadlift. Auxiliary lifts target only one muscle group.

LIFE GUARDING/FIRST AID

0871 Semester/0.5 credit Grade 10, 11, 12

This course offers American Red Cross certification in the areas of First Aid, Cardiopulmonary Resuscitation for the Professional Rescuer, and Lifeguarding. Students receive theory and practical application of principles regarding safety and the prevention of accidents. In addition, students learn standard first aid skills, including CPR. The program also focuses on the knowledge and application of skills required by individuals to develop effective lifeguard systems around swimming pools. Students who choose this course must be able to swim to a depth of 12 feet to retrieve a 10 pound brick. **Students must also be able to complete 20 lengths of the pool in less than 12 minutes. This course is for above average swimmers.** Students who successfully complete this course will receive certification for lifeguarding and First Aid (valid 3 years), and CPR for the Professional Rescuer (valid 1 year).

Note: Course cost for American Red Cross administrative fee is approximately \$70.00.

ADVANCED TEAM SPORTS

0872 Semester/0.5 credit Grade 11, 12

This course is designed for advanced physical education athletes/students. This course provides an opportunity for students to perform in a variety of competitive sports. It is appropriate for students who are team sports oriented, including but not limited to: football, soccer, frisbee, basketball, hockey, handball, lacrosse, softball, volleyball, and tennis. Various other vigorous team activities may be supplemented depending on space availability. Elements of weight training may also be included. This is a coed class that is offered to 11th and 12th grade students.

AQUATICS II

0873 Semester/0.5 credit Grade 10, 11, 12

This course is for advanced swimmers. This course consists of cardiovascular and flexibility training in the pool, including lap swimming, water polo, and various water games. The use of the gymnasiums, weight room, track, fields, pool, and classrooms will be utilized for training.

CARDIO TRAINING (Walking/Aerobics)

0892

Semester/0.5 credit

Grade 10, 11, 12

This course will consist of cardiovascular and flexibility training for students. The skills of walking, jogging, and running will be developed during the outdoor days of class. During indoors classes, walking, jogging, running, aerobics, circuit training, and cardiovascular activities will also be developed. The gym, fitness center, track, fields, and classrooms will be utilized for training.

NETS

0893

Semester/0.5 credit

Grade 10, 11, 12

This course will consist primarily of net type games in physical education and sports. The net games and sports will include tennis, badminton, pickle ball, volleyball, and various lead up games.

ATHLETIC LEADERSHIP AND COACHING

0894

Semester/0.5 credit

Grade 11, 12

The objective of this course is to develop leadership skills needed by students/athletes and aspiring coaches. It will challenge students to develop a philosophy, explore styles, and enhance communication and motivational skills needed to be successful in athletics. Course learning outcomes include developing personal, interpersonal, and team building skills for students to become team leaders and coaches.

RECREATIONAL PHYSICAL EDUCATION

0895

Semester/0.5 credit

Grade 10, 11, 12

This course will offer recreational physical activity and games. These modules will be combined with walking and low impact activities. Recreational games will include: horseshoes, bocci, Frisbee golf, lawn games, shuffle board, badminton, and bowling.

ENGLISH

The mission of the Marple Newtown High School English Department incorporates a program of study that enables all learners to acquire the knowledge and skills to become productive, responsible, literate citizens who have developed an understanding and appreciation of the role of English in a rapidly growing technological society. The program of study includes English in grades 9 through 12 of varying levels that incorporates Advanced and College Preparatory courses along with interdisciplinary courses and electives. All students at Marple Newtown High School are expected to successfully complete English each year in grades 9 through 12, accumulating a minimum of 4.0 credits required for graduation.

ENGLISH DEPARTMENT RECOMMENDED SEQUENCE OF COURSES

<u>Grade 9</u>	<u>Grade 10</u>	<u>Grade 11</u>	<u>Grade 12</u>
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ADVANCED PLACEMENT/HONORS

English 9: Literary Genre Honors (1410)	English 10: World Literature I Honors (1510) Humanities Honors (1515)	English 11: AP Eng. Land. & Comp (1614) American Literature Honors (1610) American Studies Honors (1615)	English 12: AP World Literature II (1715) World Lit II - Honors (1710)
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COLLEGE PREPARATORY

English 9: Literary Genre (1420)	English 10: World Literature I (1520)	English 11: American Literature (1620)	English 12: World Lit II (1720)
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ELECTIVES

Elective courses are open to students in grades 9, 10, 11, and 12 with the exception of SAT Prep Reading/Writing. This elective will only be open to grades 10, 11, and 12.

Poetry (1870)
Theater as Living Art (1871)
Cinema Development and Appreciation (1872)
Speech (1873)
Journalism I (1874)
Journalism II (1876)
Creative Writing (1875)
Women's Literature of the Americas (1878)
Reading Olympics (1883)
SAT Prep: Reading/Writing (1884)

CORE ENGLISH COURSES

ENGLISH 9: LITERARY GENRE

1410*, 1420, 1430

Year/1.0 credit

Grade 9

This comprehensive program strengthens reading, writing, listening, and speaking skills. Students read selected works in various genre including novels, plays, short stories, and poetry. Vocabulary and SAT test taking strategies are emphasized.

ENGLISH 10: WORLD LITERATURE I

1510*, 1520, 1530

Year/1.0 credit

Grade 10

Students study world literature, including selections from Old English, Middle English, Shakespeare, Modern, and 21st Century. Listening, speaking, vocabulary skills, SAT test-taking skills, and research are emphasized. Writing focuses on the skills needed to write clearly and logically. Students will be introduced to the fundamentals of research resulting in a required oral presentation.

HUMANITIES - HONORS

1515

Year/2.0 credits

Grade 10

As an alternative to World Civilization and Cultures II and World Literature I, Humanities is a fast-paced, interdisciplinary course. This class meets for two periods each day and is taught collaboratively by a member of the English Department and a member of the Social Studies Department. The course is designed to foster an in-depth understanding of world history and corresponding authors and their literary works utilizing performance-based assessments, and the experience of field trips. Students will be introduced to the fundamentals of research resulting in a required oral presentation.

Note: This course satisfies both the English 10 and the World Cultures and Civilization II graduation requirements.

ENGLISH 11: ENGLISH LANGUAGE AND COMPOSITION - AP *

1614*

Year/1.0 credit

Grade 11

The Advanced Placement English Language and Composition course is designed to provide students with reading and writing activities to help them gain rhetorical and textual power, making them more alert to an author's purpose, the needs of an audience, the demands of the subject, and the resources of language, including but not limited to diction, syntax, and tone. Because of the demanding curriculum, students must bring to the course sufficient command of mechanical conventions and an ability to read and discuss prose. The three main components of the course are reading, writing, and research. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

Note: This course satisfies the English 11 graduation requirement.

ENGLISH 11: AMERICAN LITERATURE

1610, 1620, 1630

Year/1.0 credit

Grade 11

Through the reading and analysis of a variety of American literary works, students will learn the evolution of American literature from its inception to present day. Composition, research, writing skills, vocabulary development, and SAT preparation are emphasized. The fundamentals of research are taught, including the development of a thesis. Successful completion of a major research paper is a requirement.

AMERICAN STUDIES - HONORS

1615

Year/2.0 credits

Grade 11

This course is offered as an alternative to the required 20th Century American History and American Literature. A variety of instructional methods and rigorous interdisciplinary activities will be used to help each student develop a better understanding of our rich cultural heritage from Puritan society to modern times, while also developing reading and writing skills and gaining knowledge of the American experience. This class will meet for two periods each day and will be taught collaboratively by a member of the English Department and a member of the Social Studies Department. Successful completion of a major research paper is a requirement.

Note: This course satisfies both the English 11 and United States History graduation requirements.

ENGLISH 12: WORLD LITERATURE II

1710, 1720, 1730

Year/1.0 credit

Grade 12

In this course, readings are representative of world literature and are arranged thematically. Various literary devices will be discussed, as they appear in a variety of works. Further development of reading skills, related vocabulary, and composition skills will be ongoing.

ENGLISH 12: WORLD LITERATURE - AP*

1715*

Year/1.0 credit

Grade 12

Students develop procedures for independent analysis of literary genre (novel, drama, short story, poetry, and prose). Readings are representative of world literature and are arranged thematically. Refinement of reading, composition, oral expression, and listening skills are accomplished by having each student complete a series of written analysis and initiatives. There is emphasis on expository writing as well as an opportunity for creative writing. Because of the demanding curriculum, students must bring to the course sufficient command of mechanical conventions and an ability to read and discuss prose. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

READING STRATEGIES

1830

Semester/0.5 credit or Year 1.0 credit

Grade 9

Prerequisite: Students must meet Reading placement criteria.

This course is designed for freshmen who need to improve overall reading skills. Phonics, comprehension, and fluency will be emphasized as needed. Study skills, textbook reading strategies, fiction and nonfiction reading, and writing will be taught. Groups are small so that individual attention and immediate feedback can be provided.

READING SUPPORT

1841

Semester/0.5 credit or Year/1.0 credit

Grade 10, 11, 12

Prerequisite: Students are placed in reading support based on previously earned assessment data and teacher recommendation.

Upper class students in need of additional reading instruction may be placed into Reading Support. Reading Support is designed for students who need to improve overall reading skills. The purpose of this course is to address areas of need for individual students, and the goal is for students to demonstrate an increase in understanding and performance.

KEYSTONE EXAM PREPARATION

1835

Semester/0.5 credit

Grade 11, 12

Prerequisite: Students are placed in Keystone Exam Preparation based on performance on the state assessment.

This course is designed for the students who did not score Proficient on the Keystone Literature Exam. The focus will be on intensive review of literary devices, elements, and vocabulary as well as test preparation strategies. Students may be re-enrolled in the course until proficiency is reached.

ENGLISH LANGUAGE LEARNERS I

1961

Year/1.0 credit

Grade 9, 10, 11, 12

English as a Second Language is a required course for non-native speakers of English who need to develop proficiency in English. Emphasis is placed on reading, writing, speaking and listening skills. Students must meet ELL entrance criteria to enroll in this course.

ENGLISH LANGUAGE LEARNERS II

1962

Year/1.0 credit

Grade 9, 10, 11, 12

ENGLISH LANGUAGE LEARNERS III

1963

Year/1.0 credit

Grade 9, 10, 11, 12

ENGLISH LANGUAGE LEARNERS SUPPORT

1964

Year/1.0 credit

Grade 9, 10, 11, 12

ENGLISH ELECTIVES

The English Department offers a wide variety of electives designed to encourage students to explore areas of interest in communication and literature. These courses do not meet the basic credit requirements for English, but do satisfy elective credit. Elective courses are open to students in grades 9, 10, 11, and 12 with the exception of SAT Prep Reading/Writing. This elective will only be open to grades 10, 11, and 12.

POETRY

1870

Semester/0.5 credit

Grade 9, 10, 11, 12

Drawing on sources ranging from the classic and formal to the contemporary, students will practice poetic techniques and will critically analyze a variety of poems.

THEATER AS LIVING ART

1871

Semester/0.5 credit

Grade 9, 10, 11, 12

Students selecting this course will learn that “The play’s the thing.” By studying, writing, designing, and performing classic and contemporary plays, as well as original dramas of their own, students will become proficient in the dramatic arts.

CINEMA DEVELOPMENT AND APPRECIATION

1872

Semester/0.5 credit

Grade 9, 10, 11, 12

Film is a major form of art/communication in the 21st Century, and this course enables students to study the development of cinema from its beginnings, as well as giving them the information and skills needed to watch, evaluate, and write about any movie of artistic merit. In addition to viewing film highlights and entire movies, students demonstrate their understanding of cinema through written movie critiques, tests, and independent projects.

SPEECH

1873

Semester/0.5 credit

Grade 9, 10, 11, 12

Students gain experience in common speaking forms, including persuasive, demonstrative and informative speeches, interview techniques, debate, commercial presentation, and oral interpretation.

JOURNALISM I

1874

Semester/0.5 credit

Grade 9, 10, 11, 12

JOURNALISM II

1876

Semester/0.5 credit

Grade 9, 10, 11, 12

Students receive training and practical experience in the various forms of journalistic writing. They will improve their journalistic writing through interpretive reporting, editorializing, planning, and writing. Students have the option of helping to produce a newspaper or working individually to improve their writing and reporting skills.

CREATIVE WRITING

1875

Semester/0.5 credit

Grade 9, 10, 11, 12

Creative Writing is designed for students who wish to experiment in self-expression through writing. Writing emphasis is placed on imitating models, pre-writing techniques, examining various publishing venues and exploring different forms. Students will study classic, modern and contemporary writers, and their different styles. Students will write daily, keep a journal, participate in workshops, readings, and use the many styles of writing studied. Students will finally create their own writing portfolios and submit work to be published in the Marple Newtown Literary Magazine.

WOMEN'S LITERATURE OF THE AMERICAS

1878

Semester/0.5 credit

Grade 9, 10, 11, 12

Focusing attention on the wealth of literature published by women of North, South, and Latin America, this course seeks to provide an opportunity for enriched study of the recurring themes present in 20th Century women's literature. These include, but are not limited to, storytelling and folklore, roles within the family, concepts of beauty, and reactions to war. Students should recognize that, while male and female students of all abilities and backgrounds are welcome, this is a reading and discussion-intensive course, with both written and oral requirements.

READING OLYMPICS

1883

Semester/0.5 credit

Grade 9, 10, 11, 12

This course is for the student who loves to read! We will be preparing for the annual Reading Olympics competition held each spring in Delaware County. Even if you don't want to compete, you can take the course and enjoy reading and taking part in literature circle discussions. New titles are provided by the Delaware County Intermediate Unit each April and include both

contemporary bestsellers such as *The Hunger Games* and classics such as *Our Town*. The titles offered vary in topic, reading level, and length. However, all titles are chosen to appeal to high school students.

SAT PREP: READING/WRITING

1884

Semester/0.5 credit

Grade 10, 11, 12

This course is designed primarily for students who are college bound and need assistance in taking the SAT. Students can expect a study of high frequency words and reading comprehension techniques to aid in taking the Reading portion of the test. For the Writing section, students will work with identifying sentence errors and improving sentences and paragraphs. The goal of this course is to help students achieve higher scores on both the PSAT and SAT.

SOCIAL STUDIES

Our mission in the Social Studies Department is to enable all students to learn the skills, acquire the knowledge, and develop the attitudes necessary to reach their full potential as citizens prepared to meet the challenges of a rapidly changing global society.

All students at Marple Newtown High School are expected to take and pass Social Studies each year accumulating a minimum of four credits required for graduation. Social Studies also offers elective courses, which can be used to complete credit requirements for graduation or present challenging in-depth studies in a variety of areas. The following courses fulfill the Social Studies requirements for graduation.

SOCIAL STUDIES DEPARTMENT RECOMMENDED SEQUENCE OF COURSES

Grade 9 **Grade 10** **Grade 11** **Grade 12**

ADVANCED PLACEMENT/ HONORS

World Civilizations & Cultures Honors (2410)	AP European History (2510) AP World History (2515) Humanities Honors (1515)	AP United States (2610) American Studies Honors (1615)	AP Government (2715) AP Economics (2710)
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COLLEGE PREPARATORY

World Civilizations & Cultures (2420, 2430)	World Civilization & Cultures II (2520, 2530)	20 th Century America (2620, 2630)	Political and Economic Issues (2720, 2730)
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ELECTIVES

Electives are offered for one semester and satisfy elective credits. They do not fulfill Social Studies graduation requirements.

Grades 9, 10, 11, 12

American Civil War, World War II and the Vietnam War, International Relations, The Civil Rights Movement, Leadership and Character

Grades 10, 11, 12

Sociology, Psychology, AP Psychology

THE FOLLOWING COURSES SATISFY GRADUATION REQUIREMENTS

World Civilizations and Cultures I and II and Honors
20th Century America.
Political and Economic Issues
Humanities and American Studies

Advanced Placement classes including:
European History, World History, American History, Government and Economics.

CORE SOCIAL STUDIES COURSES

HUMANITIES - HONORS

1515

Year/2.0 credits

Grade 10

As an alternative to World Civilization and Cultures II and World Literature II, Humanities is a fast-paced, interdisciplinary course. This class meets for two periods each day and is taught collaboratively by a member of the English Department and a member of the Social Studies Department. The course is designed to foster an in-depth understanding of world history and correlating authors and their literary works utilizing performance-based assessments, and the experience of field trips. Students will be introduced to the fundamentals of research resulting in a required oral presentation. Note: This course satisfies both the English 10 and the World Cultures and Civilization II graduation requirements.

AMERICAN STUDIES - HONORS

1615

Year/2.0 credits

Grade 11

This course is offered as an alternative to the required 20th Century American History and American Literature. A variety of instructional methods and rigorous interdisciplinary activities will be used to help each student develop a better understanding of our rich cultural heritage from Puritan society to modern times, while also developing reading and writing skills and gaining knowledge of the American experience. This class will meet for two periods each day and will be taught collaboratively by a member of the English Department and a member of the Social Studies Department. Successful completion of a major research paper is a requirement.

Note: This course satisfies both the English 11 and United States History graduation requirements.

WORLD CIVILIZATIONS & CULTURES I

2410*, 2420, 2430

Year/1.0 credit

Grade 9

World Civilizations and Cultures I is designed to give students a greater understanding of global events and trends through the study of the interaction of world societies through the ages. Students will learn how human views of the world have changed over time and analyze the changing relationships between and among world civilizations. Beginning with an examination of the earliest civilizations, students will continue a chronological study of world history through the Middle Ages. The development of writing skills, analysis of primary sources, making comparisons, and effective teamwork will be emphasized.

Note: Performance assessments for the Honors program are centered on the yearly National History Day theme.

WORLD HISTORY - AP*

2515*

Year/1.0 credit

Grade 10

The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts in different types of human societies. The course highlights the nature of changes in global frameworks and their causes and consequences, as well as comparisons among major societies. AP World History offers an approach that lets students “do history” by guiding them through the steps a historian would take in analyzing historical events and evidence worldwide. The course offers balanced global coverage, with Africa, the Americas, Asia, Europe, and Oceania all represented. All students enrolled in AP courses are strongly encouraged to take the College Board’s Advanced Placement Exam.

MODERN EUROPE - AP*

2510*

Year/1.0 credit

Grade 10

Advanced Placement Modern Europe presents a detailed study of the history of Europe from 1450 to present. Students will analyze the social, intellectual, and political transition of Europe to the present while tracing significant themes of modern European history. Work in this course requires a major research project and the historical analyses of supplementary readings. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

WORLD CIVILIZATIONS & CULTURES II

2520, 2530

Year/1.0 credit

Grade 10

In year two of World Civilizations & Cultures, students will continue to develop their understanding of the world and the societies which populate it. Building on the study done in World Civilizations & Cultures I, students will continue the chronological study of world history from 1450 to the present. The development of writing skills, analysis of primary sources, making comparisons, and effective teamwork will be emphasized.

UNITED STATES HISTORY - AP*

2610*

Year/1.0 credit

Grade 11

In this chronological survey of US history, students discover how America developed from the earliest years of European settlement to the present using the tools of historians. Exposure to a rich variety of primary and secondary sources, interactive lessons, and a wide range of writing and technology are part of the AP US History experience. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

20TH CENTURY AMERICA

2620, 2630

Year/1.0 credit

Grade 11

This survey of 20th century American history begins with the foreign policy events at the dawn of the 20th century and continues through to the early years of the 21st century. Students will view history through political, social, and economic lenses and examine a variety of primary and secondary sources to provide a balanced perspective of 20th century American history.

MACRO ECONOMICS - AP*

2710*

Year/1.0 credit

Grade 12

Building on a foundation of basic economic concepts, students focus on the macroeconomic domain. Special emphasis is placed on major economic theories, the role of government as it attempts to stabilize our economy, and the analysis of charts, graphs, and tables. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

U.S. GOVERNMENT & POLITICS - AP*

2715*

Year/1.0 credit

Grade 12

This year-long Advanced Placement course is an in-depth examination of the American political system along with a comparative study of selected world governments. Major themes include: our constitutional foundations, political beliefs and behaviors, political parties and interest groups, institutions and policy processes of national government, and civil rights and civil liberties. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

POLITICAL AND ECONOMIC ISSUES

2720, 2730

Year/1.0 credit

Grade 12

Both Government and Economics are part of this 12th grade Social Studies requirement. The economic focus is on the many forces which interact in our effort to satisfy unlimited wants with limited economic resources. Students are required to complete a political and economic issues project. In the study of government, emphasis is placed on the way our political system works with an examination of the three branches of the federal government as well as state and local governments and the rights and responsibilities of citizenship.

SOCIAL STUDIES ELECTIVES

These courses are not required but may be selected in order to fulfill elective course requirements necessary for graduation. Many of these courses give students background in areas in which they may have a career interest and will provide the student with critical thinking skills that will be necessary in their future. Unless otherwise noted, elective courses are open to students in grades 10, 11 and 12.

PSYCHOLOGY - AP*

2810*

Year/1.0 credit

Grade 11, 12

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam. Students in 11th and 12th grade may take this elective.

Note: As an elective, this course cannot be taken in place of any Social Studies course required for graduation.

SOCIOLOGY

2870

Semester/0.5 credit

Grade 10, 11, 12

Sociology is the study of human beings and their relationships to others in society. Students examine human cultural heritage and its impact on individual personality and life style. Among the topics covered are social institutions, socialization, social stratification and social change. Issues such as marriage and the family, crime and punishment, the population explosion, minority groups, and rural and urban living are part of the focus of the course.

PSYCHOLOGY

2871

Semester/0.5 credit

Grade 10, 11, 12

The goal of this course is to help students develop a better understanding of human behavior. The theories and methods of psychologists are emphasized. Topics include: psychology as a science, how we learn and become who we are, the role of the brain, sensation and perception, and personality theories. Conducting experiments is an important component of the course.

AMERICA'S CIVIL WARS

2872

Semester/0.5 credit

Grade 9, 10, 11, 12

This course is offered to help students better understand the Revolutionary War and the Civil War. Topics covered will include the background and causes of each war. In studying the

Revolutionary War, focus on the causes of the war will lead to the study of the Revolution in the North, then the Middle States, and finally the South. The Civil War will be studied from the point of view of both the North and the South. Battles of the Eastern Campaign and the Western Campaign will be analyzed. The course will conclude with the surrender at Appomattox Court House.

WORLD WAR II and THE VIETNAM WAR

2873

Semester/0.5 credit

Grade 9, 10, 11, 12

This course will cover America's involvement in World War II starting from the bombing of Pearl Harbor. The war will be studied from the viewpoint of the European theater, and the South Pacific theater. As students examine major battles, they will focus on the personalities of General Dwight D. Eisenhower and General Douglas MacArthur. The Vietnam War will be studied from the fall of Dienbienphu to the fall of Saigon. Attention will be given to "The Domino Theory" and how the war affected America at home.

INTERNATIONAL RELATIONS

2874

Semester/0.5 credit

Grade 9, 10, 11, 12

The topics of study for this course are taken from international problems that currently face the United States, our diplomats, and policy makers. Each topic is examined in terms of its historical background, the national interests of the various countries involved, and subsequent actions taken by those countries in light of their interests. A major goal is to understand the national interests of other countries so that the impact of the United States policy decisions on other peoples of the world can better be evaluated.

THE CIVIL RIGHTS MOVEMENT

2875

Semester/0.5 credit

Grade 9, 10, 11, 12

In this elective course, students will examine the struggle waged by Black Americans and their white allies against white supremacy and racial discrimination in the 1950's and 1960's. A wide variety of technology and authentic resources will bring the dynamics, achievements, and limitations of the civil rights movement to life.

THE PRESIDENTS AS PEOPLE

2877

Semester/0.5 credit

Grade 9, 10, 11, 12

Who were the fascinating individuals who helped shape America's past? Forty-three of these individuals have been President of the United States. Who were the people who occupied what has been called, "The most powerful office in the world?" Using biographical information, primary sources, visuals, and a variety of on-line resources, students will learn about the people who held this office, and the history of the country as it pertained to each president studied.

LEADERSHIP AND CHARACTER

2878

Semester/0.5 credit

Grade 9, 10, 11, 12

Leadership and Character is designed to give students the opportunity to analyze their responsibilities and commitments in the context of leadership as described in this course. Students will explore the concept of leadership and develop the skills necessary to become successful students and members of society. The course includes the study of leadership through psychology, sociology, and biography, as well as the application of leadership theories, concepts, and skills to develop students' own leadership potential. Students will complete personal and leadership self-assessments, explore values, and apply leadership skills through course activities.

MATHEMATICS

At Marple Newtown High School all students are expected to successfully complete courses in Algebra I, Geometry, and Algebra II. As these courses serve as a foundation for future mathematical inquiry and understanding, successful completion of one or more of these courses serves as a prerequisite to enrollment in math elective courses.

All courses expect students to have a graphing calculator for daily classroom use. A TI-84 Plus is recommended.

MATH DEPARTMENT RECOMMENDED SEQUENCE OF COURSES

Algebra I course → Geometry course → Algebra II course

Please see the list of electives that can be taken concurrently with an above course.

Please see the list of electives that can be taken following the above sequence.

CORE MATHEMATICS COURSES

ALGEBRA I

3410*, 3420

Year/1.0 credit

Grades 9, 10, 11, 12

Each Algebra I course will cover the specified eligible content for Algebra I as outlined by the Pennsylvania Department of Education. The following six anchors will be addressed: Operations with Real Numbers and Expressions, Linear Equations, Linear Inequalities, Functions, Coordinate Geometry, and Data Analysis

GEOMETRY

3510*, 3520

Year/1.0 credit

Grades 9, 10, 11, 12

Prerequisite: Successful completion of Algebra I.

Each Geometry course will cover the specified eligible content for Geometry as outlined by the Pennsylvania Department of Education. The following six anchors will be addressed: Properties of Circles, Spheres and Cylinders, Properties of Polygons and Polyhedra Congruence, Similarity and Proofs, Coordinate Geometry and Right Triangles, Measurements of Two-Dimensional Shapes and Figures, and Measurements of Three-Dimensional Shapes and Figures

ALGEBRA II - TRIGONOMETRY

3610*, 3620

Year/1.0 credit

Grades 9, 10, 11, 12

Prerequisites: Successful completion of Algebra I and Geometry.

Each Algebra II course will cover the specified eligible content for Algebra II as outlined by the Pennsylvania Department of Education. The following six anchors will be addressed: Operations with Complex Numbers, Non-Linear Expressions, Non-Linear Equations, Patterns, Relations, and Functions, Applications of Functions, and Data Analysis. There will be a unit on trigonometry in these two courses, using both a right triangle and a unit circle basis.

ALGEBRA II

3630

Year/1.0 credit

Grades 9, 10, 11, 12

This course will cover the specified eligible content for Algebra II as outlined by the Pennsylvania Department of Education. The following six anchors will be addressed: Operations with Complex Numbers, Non-Linear Expressions, Non-Linear Equations, Patterns, Relations, and Functions, Applications of Functions, and Data Analysis

MATHEMATICS ELECTIVE COURSES

All math courses and electives, with the exception of Algebra I Support, Geometry Support, and Algebra I Keystone Support, can be used to meet the graduation requirements related to mathematics. Students completing Algebra I Support, Geometry Support, and Algebra I Keystone Support will receive credits that will apply towards elective requirements only.

PRE-CALCULUS

3710*, 3720

Year/1.0 credit

Grades 9, 10, 11, 12

Prerequisite: Successful completion of Algebra II-Trigonometry.

Each pre-calculus course introduces students to the vocabulary of functions. Students learn how to compare and contrast functions as they learn about concepts including: domain, range, symmetry, continuity, end behavior, extrema, and periodicity. Twelve basic functions are used to develop the fundamental analysis skills that are needed in calculus.

DISCRETE MATH - HONORS*

3711*

Year/1.0 credit

Grades 9, 10, 11, 12

Prerequisite: Successful completion of a Pre-Calculus course.

The topics in the Discrete Math course cover content areas not normally covered in any other mathematics course. **Part I** is the *Mathematics of Social Choice*: voting, weighted voting and power, fair division, and apportionment methods. **Part II** is *Management Science*: Graph theory, shortest network problems and scheduling, using directed graphs, and critical paths. **Part III** topics are related to *Growth and Symmetry*: Fibonacci numbers, the Golden Ratio, Population Growth, Symmetry and transformational geometry, and Fractal Geometry. **Part IV** is an *Introduction to Calculus* that includes graphs of polynomial and rational functions, limits, the derivative, and techniques of differentiation.

INTRODUCTION TO COMPUTER SCIENCE I

3716

Semester/0.5 credit

Grades 9, 10, 11, 12

Prerequisites: Successful completion of both Algebra I and Geometry.

This course provides students with an opportunity to develop their basic programming skills using the Java programming language. It has an emphasis on Object-Oriented Programming (OOP). The course introduces students to commonly used algorithms such as loop and conditional blocks. Students will learn how to create and use elementary Graphic User Interfaces (GUIs) for input and output as well as common text-based console windows. Classes and subclasses will be explored and created making use of such topics as polymorphism and inheritance.

Note: Students may enroll concurrently in Geometry and Introduction to Computer Science with Computer Science teacher recommendation.

INTRODUCTION TO COMPUTER SCIENCE II

3717

Semester/0.5 credit

Grades 9, 10, 11, 12

Prerequisite: Successful completion of Introduction to Computer Science I.

This course is an extension of Intro to Computer Science I and provides students with an opportunity to further develop their basic programming skills using the Java programming language. It has an emphasis on Object-Oriented Programming (OOP). Students are expected to gain proficiency in using Objects and their associated methods. The course teaches students to use and implement commonly used algorithms such as sorts, searches, loops, and conditional blocks. Students will further develop the use of Graphic User Interfaces (GUIs) for input and output as well as common text-based console windows. Classes, subclasses, and interfaces will be explored and created making use of such topics as polymorphism, inheritance, and encapsulation. Students will further develop Data Structures in this course to include ArrayLists, as well as 1 and 2 dimensional Arrays. Both iterative and recursive methods will be explored and discussed.

TRIGONOMETRY

3721

Semester/0.5 credit

Grades 9, 10, 11, 12

Prerequisite: Successful completion of Algebra II or Algebra II-Trigonometry.

This trigonometry course covers relationships of angles and sides in right triangles. The concept of the unit circle will also be used to cover the trigonometric ratios. The Law of Sines and the Law of Cosines will both be covered. The graphing calculator is used extensively throughout this course.

INTRODUCTION TO STATISTICS

3722

Semester/0.5 credit

Grades 9, 10, 11, 12

Prerequisite: Successful completion of Algebra II or Algebra II-Trigonometry.

This statistics course covers data collection, organization, and analysis.

STATISTICS

3723

Year/1.0 credit

Grades 9, 10, 11, 12

Prerequisite: Successful completion of Algebra II or Algebra II-Trigonometry. Introduction to Statistics is not a prerequisite to Statistics.

This statistics course covers data collections, organization, and analysis. In addition, topics such as experimental design, confidence intervals, and inference, which will lead to a broader understanding of statistics, will also be covered. These additional concepts are not part of the semester course.

SAT PREP: MATH

3724

Semester/0.5 credit

Grade 10, 11, 12

A semester course designed to help students improve their aptitude and achievement test scores by increasing math skills, improving accuracy and developing logical reasoning. Emphasis will be placed on math test-taking methods.

FINANCIAL LITERACY

3725

Semester/0.5 credit

Grades 9, 10, 11, 12

Prerequisite: Successful completion of Algebra II or Algebra II-Trigonometry.

The essentials of quantitative literacy needed to be an intelligent consumer will be covered. The principles of investing will be covered. Students will learn how to use the Finance application on the TI calculators. Life-long skills of money management will be presented.

LOGIC

3726

Semester/0.5 credit

Grades 9, 10, 11, 12

Prerequisite: Successful completion of Algebra II or Algebra II-Trigonometry.

The course will study the science of correct reasoning. Applied logical reasoning is a critical skill for our students. Students will learn to construct and recognize valid deductive arguments. Students will recognize common reasoning fallacies. Students will be introduced to formal and informal logic tools.

MATHEMATICS ADVANCED PLACEMENT COURSES

The Advanced Placement courses are offered to those students willing to accept the demands of college level work. Students should possess good written and oral communication skills, outstanding work habits and excellent attendance records. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

STATISTICS - AP*

3712*

Year/1.0 credit

Grades 9, 10, 11, 12

Prerequisite: Successful completion of Algebra II-Trigonometry.

This AP course is intended to introduce students to the major components of collecting, analyzing, and drawing conclusions from data. Students will be exposed to exploring data, planning a study, conducting an experiment, anticipating patterns, and statistical inference. Emphasis will also be placed on hypothesis testing and tests comparing two parameters. The topics covered are those outlined by the College Board. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

Note: This may be taken concurrently with Discrete Math, Pre-Calculus, Calculus or Computer Science.

CALCULUS AB - AP*

3713*

Year/1.0 credit

Grades 9, 10, 11, 12

Prerequisite: Successful completion of a Pre-Calculus course.

The topics are those outlined by the College Entrance Examination Board. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

CALCULUS BC - AP*

3714*

Year/1.0 credit

Grades 9, 10, 11, 12

Prerequisite: Successful completion of Honors Discrete Math is strongly suggested.

This course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. Calculus BC is an extension of Calculus AB rather than an enhancement; common topics require a similar depth of understanding. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

COMPUTER SCIENCE A - AP*

3715*

Year/1.0 credit

Grades 9, 10, 11, 12

Prerequisites: Successful completion of Introduction to Computer Science I and II.

This AP course is offered to those students with excellent problem solving ability and a keen interest in computer science as a career. The focus of this course is to provide students with a conceptual background in computer science. The major emphasis is on programming methodology, algorithm design, and object oriented programming in the Java language. This course prepares a student for advanced placement in a college computer science program by means of the Advanced Placement Exam. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

Note: This may be taken concurrently with Discrete Math, Pre-Calculus, Calculus, or Statistics.

MATHEMATICS SUPPORT COURSES

ALGEBRA I SUPPORT

3830

Semester/0.5 or Year/1.0 credit

Grades 9, 10, 11, 12

This course is designed for students concurrently enrolled in Algebra I who require additional support. Students will be placed in this course based on previously earned grades and/or assessment data. Students will be placed in this course for the entire year unless the student meets established exit criteria at the end of the first semester.

GEOMETRY SUPPORT

3841

Semester/0.5 or Year/1.0 credit

Grades 9, 10, 11, 12

This course is designed for students concurrently enrolled in Geometry who require additional support. Students will be placed in this course based on previously earned grades and/or assessment data. Students will be placed in this course for the entire year unless the student meets established exit criteria at the end of the first semester.

ALGEBRA I KEYSTONE SUPPORT

3835

Semester/0.5 or Year/1.0 credit

Grades 9, 10, 11, 12

This course is designed specifically for students who did not achieve the proficient level on the Algebra I Keystone Exam. Students will be reenrolled in this course until proficiency is achieved on the Algebra I Keystone Exam.

SCIENCE

The mission of the Marple Newtown School District Science Department is to provide all students with a program of study that will enable them to acquire the knowledge and skills to become scientifically literate citizens and to develop an understanding and appreciation of the role of science and technology in society. This program includes courses in Earth Science, Biology, Chemistry, Physics, and Environmental Science.

SCIENCE DEPARTMENT RECOMMENDED SEQUENCE OF COURSES

9th Grade

Integrated Science



10th Grade

Biology



11th Grade

Chemistry



Elective(s)

- Environmental
- Forensics

12th Grade

Physics



Elective(s)

- Environmental
- Forensics
- Biology - AP
- Chemistry - AP
- Physics - AP
- Environmental - AP

9th Grade

Honors Biology



10th Grade

Honors Chemistry



11th Grade

Honors Physics



Elective(s)

- Environmental
- Forensics

12th Grade

Elective(s)

- Environmental
- Forensics
- Biology - AP
- Chemistry - AP
- Physics - AP
- Environmental - AP

INTEGRATED SCIENCE

4410*, 4420, 4430

Year/1.0 credit

Grade 9

Integrated Science is an introductory high school science course designed for 9th graders bringing together elements of several science disciplines. The course will introduce the foundational, key concepts and skills in Physical Science, Earth Science and Ecology necessary for subsequent studies in Biology and Chemistry.

BIOLOGY - HONORS*

4510*

Year/1.0 credit

Grade 9, 10

Prerequisite: Successful completion of an Integrated Science course

BIOLOGY

4520, 4530

Year/1.0 credit

Grade 10

Prerequisite: Successful completion of an Integrated Science course

Biology is the study of life. This includes the study of animal and plant structure, function, and behavior, as well as the study of living things which cannot be classified as either plants or animals. Topics from genetics, ecology, physiology, evolution, and molecular biology are included.

CHEMISTRY - HONORS*

4610*

Year/1.0 credit

Grade 10, 11

CHEMISTRY

4620, 4630

Year/1.0 credit

Grade 11

Prerequisite: Successful completion of a biology course.

Recommended: A Geometry course (can be taken concurrently).

Chemistry is the science concerned with the composition, behavior, structure and properties of matter, as well as the changes matter undergoes during chemical reactions. Studied topics include atomic structure and bonding, chemical formulas, solutions and energy transformations.

PHYSICS - HONORS*

4710*

Year/1.0 credits

Grade 11, 12

Recommended: Algebra II - Trigonometry, (can be taken concurrently).

PHYSICS

4720, 4730

Year/1.0 credit

Grade 12

Prerequisite: Successful completion of a chemistry course.

Recommended: Algebra II (can be taken concurrently).

Physics is the study of matter, energy, and the interactions between them. Unifying fundamental concepts are developed, which tie together seemingly unrelated observations. Topics that are studied include motion, energy, sound, gravity, electricity, magnetism, optics, and electromagnetism.

SCIENCE ADVANCED PLACEMENT COURSES

Prerequisites: Successful completion of Integrated Science, Biology, and Chemistry courses.

All students enrolled in Advanced Placement courses are strongly encouraged to take the College Board's Advanced Placement Exam.

BIOLOGY - AP*

4515*

Year/1.5 credits

Grade 11, 12

A course covering advanced topics from Biology. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

CHEMISTRY - AP*

4615*

Year/1.5 credits

Grade 12

A course covering advanced topics from Chemistry. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

ENVIRONMENTAL SCIENCE - AP*

4616*

Year/1.5 credits

Grade 12

A course offering advanced topics from Earth Science, Biology, and Chemistry. Environmental Science is interdisciplinary within the realm of science and aims to provide students with the scientific principles, concepts, and methodologies required to understand the natural world and their place in it. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

PHYSICS - AP*

4715

Year/1.5 credits

Grade 12

Recommended: Calculus AB or Calculus BC (can be taken at the same time)

A course covering advanced topics from Physics. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

SCIENCE ELECTIVES

These electives can fulfill the 7th credit requirement for math/science

ENVIRONMENTAL SCIENCE

4831

Semester/0.5 credits

Grade 11, 12

Prerequisites: The successful completion of three 1 credit science courses OR the completion of two required 1 credit science courses and enrollment in the third 1 credit required science course.

Environmental Science is a course designed to provide students with the content and skills needed to identify and analyze environmental problems and to examine solutions to these problems. Course content will include food and water resources, energy efficiency and renewable energy alternatives, pollution, and waste management.

Note: This course cannot replace a required science course.

FORENSIC SCIENCE

4832

Semester/0.5 credits

Grade 11, 12

Prerequisites: The successful completion of three 1 credit science courses OR the completion of two required 1 credit science courses and enrollment in the third 1 credit required science course.

Forensic science is the application of basic biological, chemical, and physical science principles to the purpose of criminal justice. Major themes of study in this course include pathology, chemical analysis of substances, biological fluids, trace evidence, DNA, fingerprints, impression evidence, hand-writing analysis, and forensic psychiatry/psychology.

Note: This course cannot replace a required science course.

Spanish: ¡ Hola!

SPANISH I

5320

Year/1.0 credit

Grade 9, 10, 11, 12

Spanish I serves as an introduction to the Spanish language and the many cultures of Spanish speaking countries. Utilizing listening, speaking, reading, writing, and presentational skills, students will be demonstrating understanding of a variety of topics relevant to their daily lives. Multimedia materials are incorporated into the curriculum to enhance student learning.

SPANISH II

5420

Year/1.0 credit

Grade 9, 10, 11, 12

In Spanish II, students will continue their study of the Spanish language and cultures by expanding their vocabulary, grammar, and multicultural understanding. Students will be exposed to authentic text and multimedia materials that will further their communicative proficiency and appreciation.

SPANISH III

5520

Year/1.0 credit

Grade 9, 10, 11, 12

Spanish III provides students with opportunities to elaborate on the vocabulary, grammar, and cultural topics learned in prior courses. Emphasis is placed on improving student reading, writing, speaking, listening, and presentational skills. Authentic and multimedia materials continue to be incorporated to enhance student learning and experience.

SPANISH IV

5620

Year/1.0 credit

Grade 9, 10, 11, 12

In Spanish IV, students will continue to develop the active language skills through spoken and written activities at a more advanced level. Cultural appreciation is enhanced through supplemental listening and reading activities as well as multimedia materials. Written composition also receives increased emphasis.

SPANISH IV - HONORS*

5610*

Year/1.0 credit

Grade 9, 10, 11, 12

Spanish IV Honors allows students to continue their development of listening, speaking, reading, writing, and presentational skills within the context of a challenging and enriched curriculum. Both a comprehensive textbook program and a variety of supplementary and multimedia materials are utilized to heighten interest, enhance cultural understanding, and maximize achievement.

SPANISH V - HONORS*

5710*

Year/1.0 credit

Grade 9, 10, 11, 12

In Spanish V Honors students will continue to develop their knowledge of the Spanish language through listening, speaking, writing, and reading activities. Grammar will be an important aspect of this course, as previously learned concepts will be strengthened and new grammar forms will be introduced and developed. Using the various vocabulary units, students will learn to converse with more ease, as well as communicate with higher accuracy in well-developed written compositions and read short selections of Spanish literature.

ADVANCED SPANISH STUDIES - HONORS*

5715*

Year/1.0 credit

Grade 11, 12

This course is ideal for those students who choose to continue their studies of the Spanish language, but who are not planning for, or have already completed, the Advanced Placement examination. There is a great deal of focus on communication and pronunciation of the target language in this course. Advanced grammar and vocabulary is developed through various activities involving current events and cultural topics, literary readings, and conversational scenarios.

French: *Bonjour!*

FRENCH I

5321

Year/1.0 credit

Grade 9, 10, 11, 12

French I introduces students to the French language and the many francophone countries in the world. The course presents vocabulary on topics of personal interest and basic grammatical structures. Students learn to communicate opinions and feelings in French and exchange information in short oral or written sentences. Students begin to use French to discuss short reading selections and audiovisual texts from francophone cultures. The textbook program in French I and II offers listening practice via CD's and a DVD, as well as a variety of online resources.

FRENCH II

5421

Year/1.0 credit

Grade 9, 10, 11, 12

In French II students will continue to develop their communicative proficiency in various contexts such as ordering in a café, clothes shopping, chores at home, city life, and vacation travel. The course introduces additional grammatical structures, including the past tense, and continues to emphasize the development of reading and listening skills using both adapted and authentic reading selections and audiovisual texts from francophone cultures. The textbook program offers listening practice via CD's and a DVD, as well as a variety of online resources.

FRENCH III

5521

Year/1.0 credit

Grade 9, 10, 11, 12

French III reviews and expands vocabulary and grammatical structures and presents skills and strategies for more accurate communication. Students learn to communicate more details about themselves and their activities. The use of the past tense is emphasized. Cultural units on the regions of France and Québec are included in the course. The textbook program offers CD's, a video program and online resources. Authentic audio and written resources from the Internet are also included to provide additional listening and reading practice and updated cultural information.

FRENCH IV

5621

Year/1.0 credit

Grade 9, 10, 11, 12

In French IV students greatly expand their knowledge of vocabulary and grammatical structures and tenses. The textbook program offers CD's, a video program and online resources. The course uses the stories in *Petit Nicolas* by Sempé and Goscinny to build reading skills. During the year students improve their writing skills and enhance cultural understanding by exchanging e-mail letters with a class at the Lycée Guillaume le Conquérant, our partner high school in Lillebonne, France.

FRENCH IV - HONORS*

5611*

Year/1.0 credit

Grade 9, 10, 11, 12

In French IV Honors students greatly expand their knowledge of vocabulary and grammatical structures and tenses within the context of a challenging and enriched curriculum. The core textbook used in French IV is supplemented with readings and Internet-based listening and reading activities. The curriculum is enriched with group and individual cultural projects and oral presentations. During the year students improve their writing skills and enhance cultural understanding by exchanging e-mail letters with a class at the Lycée Guillaume le Conquérant, our partner high school in Lillebonne, France.

FRENCH V - HONORS*

5711*

Year/1.0 credit

Grade 10, 11, 12

In the French V Honors course helps students progress from Novice Learner to Intermediate Learner as defined in the Standards for Foreign Language Learning in the 21st Century. The course utilizes core textbook, literary selections of increasing length, authentic texts on contemporary issues, and authentic audio texts from the Internet. Historical and contemporary aspects of French culture are presented. Students have frequent opportunities for individual and group projects. During the year students improve their writing skills and enhance cultural understanding by exchanging e-mail letters with a class at the Lycée Guillaume le Conquérant, our partner high school in Lillebonne, France.

World Language Advanced Placement Courses

The Advanced Placement courses are reserved for those students willing to accept the demands of college level work. They must possess good written and oral communication skills, outstanding work habits, and excellent attendance records. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

SPANISH LANGUAGE AND CULTURE - AP*

5713*

Year/1.0 credit

Grade 11, 12

FRENCH LANGUAGE AND CULTURE - AP*

5716*

Year/1.0 credit

Grade 11, 12

AP Language and Culture courses strive to promote fluency and accuracy in language use. Students are engaged in the exploration of culture in both contemporary and historical contexts by reading, listening and responding to a variety of authentic texts from literature, magazines, news broadcasts, films, etc. The goal of the course is proficient written and spoken communication in the target language. All classes are conducted in French/Spanish.

APPLIED ARTS

The Applied Arts Department offers classes in computer applications, family and consumer sciences, and business and technology applications. A wide array of semester courses is available in a broad range of levels to suit each student's needs and interests. Emphasis is placed on hands-on, lab-based experiences, which give the student a sample of the vast opportunities available after high school in both traditional and non-traditional post-secondary settings.

Communications and Technology

COMPUTER APPLICATIONS

6460 Semester/0.5 credit Grade 9, 10, 11, 12

The Computer Applications course provides students with an opportunity to gain the necessary skills, attitudes, and knowledge for success in the business world. This course will give students the opportunity to continue with the concepts that were introduced in the middle school. A more in-depth experience will be provided in the most widely used commercial software application such as Microsoft office, Adobe Creative Suite Dreamweaver, Flash, Photoshop, Web 2.0 Tools and the integration from one application to another. Course content includes but is not limited to advanced application skills of word processing, spreadsheets, presentation software, desktop publishing, web page design, and Internet research.

ELEMENTS OF ENGINEERING I

6860 Semester/0.5 credit Grade 9, 10, 11, 12

Elements of Engineering I is a problem solving course built around the Technological Design Process. Students will solve hands-on problems related to design and the six areas of technology including manufacturing, transportation, energy and power, biotechnology, and communication. Students will use machinery, hand tools, and CNC machining to complete projects using various materials such as wood, polystyrene, plastic, etc. This class will include independent projects as well as group projects.

ELEMENTS OF ENGINEERING II

6861 Semester/0.5 credit Grade 9, 10, 11, 12

Prerequisite: Successful completion of Elements of Engineering I.

Elements of Engineering II is a project based course that elaborates on the content learned in the Elements of Engineering I course. The focus of this course is in robotics and computer based design. Students will work in groups to solve hands-on design challenges, as well as individual challenges.

VIDEO PRODUCTION AND BROADCASTING

6865

Semester/0.5 credit

Grade 9, 10, 11, 12

This course is designed to plan and produce digital media focusing on television broadcasting and journalism. Focus areas include story writing, scripting, video editing, and studio production. Students will gain understanding of how a news team works together to produce high quality broadcasts. Student roles will include director, anchor, light engineering, sound engineer, video coordinator, teleprompter operator, and camera operator. Depending on the day of the schedule cycle, this course will be responsible for broadcasting morning announcements to the school.

GRAPHIC DESIGN I

6870

Semester/0.5 credit

Grade 9, 10, 11, 12

This Graphic Design course introduces students to the fundamentals needed to be able to visually communicate through visual designs. This course will provide a hands-on approach while students learn to communicate visually through computer designing, which will be the main focus of this course. Areas of concentration will include computer design using Adobe software. Basic creativity from students will be utilized as students progress through a range of assigned projects.

GRAPHIC DESIGN II

6871

Semester/0.5 credit

Grade 9, 10, 11, 12

Prerequisite: Graphics Design I.

Graphic Design II is an in-depth course that concentrates on different areas of the printing industry. Areas to be covered will include: computer layout and design, vinyl cutting and sign making, and heat transfers. This course is designed to build student interest in Graphic Communication and to improve the student's knowledge in Graphic Design to better make a possible career choice in this field.

DRAFTING/CAD I

6872

Semester/0.5 credit

Grade 9, 10, 11, 12

Prerequisite: Algebra I.

This course is designed for a survey of drafting for students with a strong math background. The first part of the course will be spent using hand drawing equipment to draw isometric drawings. The second half of the course will be utilizing the computer learning the "AutoCAD" program. The students will be required to complete a series of drawings for course completion.

DRAFTING/CAD II

6873

Semester/0.5 credit

Grade 9, 10, 11, 12

Prerequisite: Successful completion of Drafting/CAD I.

This course is designed to further develop skills in the drafting area. The course covers how to design a house on the computer, and develop it into a working drawing for construction. The course then moves into building a model of the house, which the student designed. Completion of the model is required for the course.

BUSINESS LAW I

6970

Semester/0.5 credit

Grade 9, 10, 11, 12

Explore the foundations of business law, while introducing personal law topics that interest students. LAW FOR BUSINESS AND PERSONAL USE combines strong content with interactive technology and video to maintain student interest and support active learning. Coverage includes contracts, criminal law, consumer protection, wills and estates, and marriage and divorce.

NOTE: In order to take the CLEP Exam, students must take Business Law I & II.

BUSINESS LAW II

6971

Semester/0.5 credit

Grade 9, 10, 11, 12

Explore the foundations of business law, while introducing personal law topics that interest students. LAW FOR BUSINESS AND PERSONAL USE combines strong content with interactive technology and video to maintain student interest and support active learning. Coverage includes property law, agency, employment contracts, unions, commercial paper, and credit obligations.

NOTE: Upon completion of Business Law I & II, students are eligible to take the CLEP Exam and receive college credit for Business Law.

ACCOUNTING I

6972

Semester/0.5 credit

Grade 9, 10, 11, 12

Accounting I is designed for students who anticipate continued study of accounting or business at the post-secondary level. Glencoe Accounting, First-Year Course is a comprehensive, semester course designed to bring the real world of accounting into the classroom. Students will have the opportunity to use real-world accounting software, real-world financial documents, real-world financial statements, and real-world multimedia.

SPORTS AND ENTERTAINMENT MARKETING

6973

Semester/0.5 credit

Grade 9, 10, 11, 12

This course will take you on a step-by-step journey through the exciting world of sports and entertainment marketing. You will learn about the key functions of marketing and how those functions are applied to the sports industry. Guest speakers, case studies, field trips, and on-line activities will broaden the classroom learning experience.

Family and Consumer Science

CHILD DEVELOPMENT I

6770 Semester/0.5 credit Grade 9, 10, 11, 12

This course is designed to introduce students to the processes involved in the healthy development of children from the prenatal stage to pre-school age. Brain development, literacy skills, nutrition, safety, special needs, and effective parenting skills are among the topics that will be studied.

PRESCHOOL LAB

6771 Semester/0.5 credit Grade 10, 11, 12

Through discussion, observations, and working directly with the onsite MNSD preschool program, students will see first-hand how the young child develops physically, intellectually, emotionally, and socially. In addition to preparing students for careers related to children, this course will assist students in becoming more informed and effective parents in the future.

CULINARY ARTS I

6780 Semester/0.5 credit Grade 9, 10, 11, 12

In this course, students will study nutrition and wellness according to the USDA's Dietary Guidelines by examining their personal eating habits. Students will have first-hand experiences preparing a variety of foods essential for healthy eating and living. Food safety, sanitation, and basic food chemistry will be discussed. Proper use of basic culinary equipment will be practiced. Related careers in the hospitality industry will be presented. Note: The USDA Dietary Guidelines includes all food groups. Enrolled students are expected to participate fully in preparing and eating foods. Lab Fee: \$30.00

CULINARY ARTS II

6781 Semester/0.5 credit Grade 10, 11, 12

Prerequisite: Successful completion of Culinary Arts I.

This course, via the study of grains, a vital staple of healthy eating worldwide, builds on the skills acquired in Culinary Arts I. Students will understand interactions of ingredients and practice baking skills as they cook main dishes, cereals, desserts, and breads. At the same time, consumer issues, such as FDA enforced Food Labels, UPC codes, additives, organic foods, product placement, bait and switch tactics, and generic versus national food labels will be identified and discussed. Lab Fee: \$30.00.

CULINARY ARTS III

6782 Semester/0.5 credit Grade 11, 12

Prerequisite: Successful completion of Culinary Arts I & II.

This advanced course is best suited for serious "foodies" and students considering a career in culinary arts. Students will explore how culture, geography, and history impact food habits and cuisines around the world and create the fusion popular in today's recipes. This fast-paced course will examine the culinary brigade, careers in hospitality, the mother sauces, wet and dry cooking principles, restaurant techniques, equipment, and ingredients in our new state-of-the-industry kitchen where commercial tools and equipment will be employed. Enrollment limited to Juniors and Seniors. Lab Fee: \$30.00.

VISUAL AND PERFORMING ARTS

The Visual and Performing Arts department offers a quality, comprehensive program, which is an interdisciplinary complement to the high school curriculum. Recent American studies report the benefits of a strong arts education to include: the development of the imagination, the elevation of students' intrinsic motivation to learn, the improvement of children's spatial reasoning abilities, and the development of higher levels of self-esteem and increased academic achievement.

Photography

PHOTOGRAPHY I

6890

Semester/0.5 credit

Grades 9, 10, 11, 12

This is a basic course in black and white film processing and printing that introduces you to the magic of photography. Emphasis will be placed on the photographic image as a means of expression and the use of the camera to explore and discover the visual world. Students will shoot, process, and print their own pictures made with hand built cameras as well as film taken with 35mm cameras. Students will also be allowed to shoot digital photos, convert them into negatives, and print them in the darkroom. Students will benefit from having access to a 35mm or digital camera with a manual setting. School cameras are available for those who do not have access to one. No experience is necessary. Supplies run approximately \$85.00.

PHOTOGRAPHY II

6891

Semester/0.5 credit

Grades 9, 10, 11, 12

Prerequisite: Successful completion of Photography I.

This course is a continuation of Photography I. This course is designed to give the student continued study of black and white photographic processes and the exploration of camera techniques. Students will also be allowed to shoot digital photos, convert them into negatives, and print them in the darkroom. Emphasis will be placed on the printed image as well as solarization, hand coloring, and toning. Supplies run approximately \$85.00.

PHOTOGRAPHY III

6892

Semester/0.5 credit

Grades 10, 11, 12

Prerequisite: Successful completion of Photography II.

This course is designed to give the student continued study of black and white photographic processes, and the exploration of more advanced camera, non-silver, and creative darkroom techniques. Students will be introduced to digital photography and image manipulation. The student will be able to use acquired photographic knowledge and skills as a tool for more creative expression. Supplies run approximately \$85.00.

DIGITAL IMAGING I

6893

Semester/0.5 credit

Grades 9, 10, 11, 12

This course will let you experience the magic of photography without stepping into a traditional darkroom. It is designed to introduce students to digital image manipulation, the fundamentals of Adobe Photoshop and the digital darkroom. Students will use their creativity to produce images that will be inputted into the computer via digital cameras, film, and picture scanning. Students will learn to manipulate and edit images, understand the language of the digital darkroom, and create artistic imagery. Supplies run approximately \$30.00.

DIGITAL IMAGING II

6894

Semester/0.5 credit

Grades 9, 10, 11, 12

Prerequisite: Successful completion of Digital Imaging I.

This course will enhance students understanding of photography and the digital arts. Students will expand their knowledge of Photoshop and digital techniques. Students will explore visual communication through artistic expression. Supplies run approximately \$30.00

STUDIO ART - AP* - PHOTOGRAPHY

7912*

Year/1.0 credit

Grade 11, 12

Prerequisite: Successful completion of Studio Art I, or Photo I & II, or Digital Imaging I & II and successful portfolio review by the student's art instructor.

This course has been developed to challenge students who have successfully completed a minimum of one year of studio art or photography/digital imaging courses and expressed an interest in completing the AP Portfolio. Students will be challenged to develop their own personal work through mastery of concept, composition, and execution of their personal ideas and themes. Students must follow the AP Studio Art syllabus for either Drawing or Design and are strongly encouraged to submit their portfolio to the College Board for review.

STUDIO ART - AP* - DIGITAL

7913*

Year/1.0 credit

Grade 11, 12

Prerequisite: Successful completion of Studio Art I, or Photo I & II, or Digital Imaging I & II and successful portfolio review by the student's art instructor.

This course has been developed to challenge students who have successfully completed a minimum of one year of studio art or photography/digital imaging courses and expressed an interest in completing the AP Portfolio. Students will be challenged to develop their own personal work through mastery of concept, composition, and execution of their personal ideas and themes. Students must follow the AP Studio Art syllabus for either Drawing or Design and are strongly encouraged to submit their portfolio to the College Board for review.

Art

STUDIO ART - AP* - DRAWING

7910*

Year/1.0 credit

Grade 11, 12

Prerequisite: Successful completion of Studio Art I, or Photo I & II, or Digital Imaging I & II and successful portfolio review by the student's art instructor.

This course has been developed to challenge students who have successfully completed a minimum of one year of studio art or photography/digital imaging courses and expressed an interest in completing the AP Portfolio. Students will be challenged to develop their own personal work through mastery of concept, composition, and execution of their personal ideas and themes. Students must follow the AP Studio Art syllabus for either Drawing or Design and are strongly encouraged to submit their portfolio to the College Board for review.

STUDIO ART - AP* - 3-D DESIGN

7911*

Year/1.0 credit

Grade 11, 12

Prerequisite: Successful completion of Studio Art I, or Photo I & II, or Digital Imaging I & II and successful portfolio review by the student's art instructor.

This course has been developed to challenge students who have successfully completed a minimum of one year of studio art or ceramics I & II and expressed an interest in completing the AP 3-D Portfolio. Students will be challenged to develop their own personal body of work through mastery of materials, concept, and execution of their personal ideas and themes. Students must follow the AP Studio Art syllabus for 3-D Design and are strongly encouraged to submit their portfolio to the College Board for review upon completion of this course.

PAINTING AND DRAWING

7970

Semester/0.5 credit

Grade 9, 10, 11, 12

This course introduces the student to the disciplines of painting and drawing. Students will study the elements and principles of art through the concentrated survey of these two disciplines. The course includes a study of famous artists and their work, and will explore various techniques included in painting and drawing to enhance students' existing artistic abilities.

VISUAL ART

7971

Semester/0.5 credit

Grade 9, 10, 11, 12

The Visual Art course is designed to provide the student with a working knowledge of a variety of techniques, materials, tools, and concepts in the major fields of Art. In addition to art making skills, students will explore color theory, design concepts, and art elements and principles. Some of the mediums students will explore include: drawing, painting, printmaking, sculpture, book making, and more.

DECORATIVE AND FUNCTIONAL ART

7972

Semester/0.5 credit

Grade 9, 10, 11, 12

Working with a variety of materials, the students will construct functional and decorative objects of art. Students will gain insight and incentive in their art making as a result of examining the art and crafts of different cultures. Projects may include the making of African masks, Intuit finger puppets, Hopi Kachina dolls, Chinese batiks, American Indian pottery, and more.

THREE DIMENSIONAL DESIGN

7973

Semester/0.5 credit

Grade 9, 10, 11, 12

This class will learn about the history and techniques involved in creating various three dimensional works of art. Students will work in various art media such as clay, plaster, paper mache, and paper to create several three dimensional pieces. Students will work on individual projects as well as large scale group projects.

ILLUSTRATION AND CARTOONING

7975

Semester/0.5 credit

Grade 9, 10, 11, 12

This class will study the fundamentals of drawing and visual “story telling.” Students will learn how illustrations and cartoons are prepared and the techniques necessary to produce successful illustrations. The students will learn how to visually develop a story having characters with featured characters and complete illustrations needed for school publications and their art portfolio.

STUDIO ART I

7980

Year/1.0 credit

Grade 9, 10, 11, 12

Prerequisite: Teacher recommendation required.

This is a project centered course for students who are interested in art or wish to develop a portfolio for college. This course will present students with a series of projects through which they will achieve a greater understanding of various art concepts, techniques, and media. Students will work on drawing, painting, sculpture, ceramics, and printmaking. Students will be required to purchase a personal sketchbook and individual supplies.

STUDIO ART II

7981

Year/1.0 credit

Grade 10, 11, 12

Prerequisite: Successful completion of Studio Art I.

This course is the next step for Studio Art I students. The coursework is geared to further develop students’ artistic skills and to continue to build a portfolio of artwork for admission into an art school or college. Class projects will involve a variety of art media including, but not limited to: drawing, pen & ink, painting, printmaking, watercolor, and sculpture. Students will be required to keep a sketchbook for home assignments.

CERAMICS I

7991

Semester/0.5 credit

Grade 9, 10, 11, 12

This course will introduce the student to the world of ceramics. Students will work in clay and learn the various hand building techniques used in ceramic production. The students in this class will produce a wide variety of both decorative and functional pieces of ceramic art. Supply fee of \$30.00 covers required materials.

CERAMICS II

7992

Semester/0.5 credit

Grade 10, 11, 12

Prerequisite: Successful completion of Ceramics I

The Ceramics II course is the next step for any student that has successfully completed the Ceramics I course. The focus of this course is for students to continue to develop their knowledge and ability to conceptualize, design, and create a variety of projects in clay. This course will build upon the basic knowledge and understanding of hand building and pottery wheel techniques that were taught in the Ceramics I course. Students will also have the opportunity to learn how to use the pottery wheels to create vessels. Students will produce a variety of both decorative and functional pieces of Ceramic Art. Supply fee of \$30.00 covers required materials.

Music

INTRODUCTION TO PIANO

7560

Semester/0.5 credit

Grade 9, 10, 11, 12

Students will be introduced to elements of music and fundamental concepts of performance techniques on piano. Through group instruction and demonstration, students will learn the basic skills necessary for playing songs with this instrument. Students will develop an appreciation for various styles of music and gain a deeper understanding of the value of music and its role with social development. Technology will be incorporated to better enhance the student's understanding of the performing arts.

INTRODUCTION TO GUITAR

7561

Semester/0.5 credit

Grade 9, 10, 11, 12

Students will be introduced to elements of music and fundamental concepts of performance techniques on guitar. Through group instruction and demonstration, students will learn the basic skills necessary for playing songs with this instrument. Students will develop an appreciation for various styles of music and gain a deeper understanding of the value of music and its role with social development. Technology will be incorporated to better enhance the student's understanding of the performing arts.

MUSIC THEORY - AP*

7810*

Year/1.0 credit

Grade 10, 11, 12

Prerequisite: Successful completion of Music Theory I or by teacher approval.

AP Music Theory will develop the student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. Fundamental aural, analytical, and compositional skills will be thoroughly examined using both listening and written exercises. The course will also give students the opportunity to explore various composition technique including the harmonization of a melody by selecting appropriate chords, composing a musical bass line to provide two-voice counterpoint, and the realization of figured-bass notation. All students enrolled in AP courses are required to take the College Board's Advanced Placement Exam.

MUSIC THEORY I

7870

Semester/0.5 credit

Grade 9, 10, 11, 12

This course is designed for any student who plays an instrument or sings and wishes to enhance their musical skills. In Music Theory I, students will learn the art of sight singing, musical dictation, interval identification (aural and written), and basic chord structure. Students must first demonstrate the ability to read and understand basic music notation. Students taking Music Theory I will be able to sight sing passages with basic intervals, identify, understand and appreciate basic chord structures, and be prepared to take AP Theory.

MUSIC BUSINESS

7873

Semester/0.5 credit

Grade 9, 10, 11, 12

This course examines the key elements of the music and recording industry, including artist development, promotion, publicity, distribution, and performance. Additionally, it will look at areas such as copyright administration, performance rights organizations, the creative and technological aspects of the music business, and will include listening to and analyzing popular music. It will also explore the future of music and the music business, evaluate current and developing changes and trends, and will serve up the latest information about the music scene.

AMERICAN MUSIC THEATER

7874

Semester/0.5 credit

Grade 9, 10, 11, 12

The American Musical Theater course is a non-performance music class designed for any student who is interested in learning about the history and development of American Musical Theater. This course studies the elements, history, and importance of appreciation of musical theater and the impact it has on American society.

BAND

7880

Year/1.0 credit

Grade 9, 10, 11, 12

Band is a full year course. Students in the band will learn music theory and perform together as an ensemble. Students will be responsible for all scheduled after school and evening dress rehearsals and performances throughout the year. Performances include school concerts, local and regional parades, and scheduled community events. The band performs standard band music, as well as contemporary and popular music. Band members are eligible to audition for district, regional, and state band after their freshman year. Please visit www.tigermusic.org for more information regarding policies, requirements, and grading procedures.

ORCHESTRA

7882

Year/1.0 credit

Grade 9, 10, 11, 12

Orchestra is a full year course. The orchestra consists of string musicians. All musicians interested may participate in the orchestra, regardless of ability level. The orchestra performs at various concerts throughout the year and gives members the opportunity to excel at their instrument(s) as well as makes them eligible to audition for district, regional, and state orchestra after their freshman year. The music performed includes standard orchestral literature, and branches into genres such as Broadway show tunes, movie soundtracks, and contemporary pieces. Students will be responsible for scheduled after school rehearsals and performances throughout the year. Please visit www.tigermusic.org for more information regarding policies, requirements, and grading procedures.

CHOIR

7883

Year/1.0 credit

Grade 9, 10, 11, 12

Choir meets for a full year with the purpose of developing a good choral sound. The repertoire consists of outstanding compositions of the Baroque, Classical, Romantic and Contemporary periods, as well as pop selections. Members are eligible to audition for district, regional, and state choir after their freshman year. In addition to all scheduled classes, members of the choir are responsible for all scheduled before and afterschool dress rehearsals and performances throughout the year. Please visit www.tigermusic.org for more information regarding policies, requirements, and grading procedures.

SMALL ENSEMBLE - JAZZ LAB BAND

7884

Semester/0.5 credit

Grade 9, 10, 11, 12

Jazz Lab Band is an introduction to jazz performance for musicians who have limited background in jazz. This course treats jazz as a medium for creative self-expression. All students are expected to contribute to the group as improvising soloists. Students with the appropriate backgrounds may also contribute as composers or arrangers. Students work within a small jazz ensemble to select, prepare, and perform jazz pieces in a variety of styles. Students will gain experience in choosing works appropriate to the available instrumentation and the capabilities of the musicians, working out ensemble arrangements from lead sheets, and dealing with the social dynamics of a jazz group.

SMALL ENSEMBLE - PERCUSSION

7885

Semester/0.5 credit

Grade 9, 10, 11, 12

Percussion Ensemble offers students a well-rounded approach to learning percussion instruments in order to develop general musicianship. Students will develop their skills in all areas of percussion including mallets, pitched and non-pitched percussion, and auxiliary instruments. Students enrolled in this course are expected to be serious about all types of percussion music. Students will be expected to practice, as needed, outside of class in order to perform successfully and will need to commit extra time beyond the school day for public performance opportunities

SMALL ENSEMBLE - BEGINNING INSTRUMENTAL

7886

Semester/0.5 credit

Grade 9, 10, 11, 12

Instrumental Music is designed to provide all students with an opportunity to learn and improve technique skills on a musical instrument. Students will develop general musicianship and performance technique necessary for instrumental performance. Students will be expected to practice, as needed, outside of class in order to perform successfully. An instrument is required for this course; rental agreements will be provided if a school-owned instrument is not available.

SMALL ENSEMBLE - A CAPELLA SINGERS

7887

Semester/0.5 credit

Grade 9, 10, 11, 12

A Capella Choir is a performance-oriented class for students interested in singing without instruments. Advanced sight-reading and vocal techniques are stressed during rehearsal as well as correct performance of difficult literature. Participation in this choir involves multiple performances, auditions, and possible competitions throughout the year. Students will sing mostly popular music and will be encouraged to compose some of their own songs. Private voice instruction is suggested but not required.

CAREER EDUCATION

JUNIOR INITIATIVE

9600 **Fall Semester of Junior Year/0.5 credit** **Grade 11**
Business is the foundation of our economy. To be financially successful, students will need to understand how it works. In the United States today, there are thousands of different careers, and new ones emerge every day. The insights that students gain about the business world as a result of participating in this project may help students make some decisions about the direction they would like to take in their future career plans.

SENIOR PROJECT

9700 **Three Full Weeks/1.0 credit** **Grade 12**
A study project is required by the Pennsylvania Department of Education and is a mandated graduation requirement for the Marple Newtown School District. The purpose of the Senior Project is to provide the student with a practical learning situation and an invaluable opportunity to utilize the knowledge and skills acquired over the course of the education process in a “real world” application. The project relates to life outside the classroom in a genuine way and is a direct, practical application of the student’s abilities. It is an individual project in which the student chooses, plans, develops, and directs the project’s success by piloting the project and taking charge of the educational experience.

WORK EXPERIENCE

9760 **Semester/no credit** **Grade 10, 11, 12**
Career Exploration offers the student an opportunity to enjoy a community work experience in a carefully monitored situation with educational/professional supervision, observation, and guidance. The course extends the classroom into the community and focuses on “learning while doing”. Career Exploration also provides an opportunity for students to meet occupational demands through organized work experiences provided by the school and to get an advanced look at the “real working world”.

SERVICE LEARNING

9761 **Semester/0.5 credit** **Grade 12**
This course is designed to offer students the opportunity to provide service in our high school community. This course is embedded as part of an existing course of study offered at MNHS. Through participation in Service Learning, our students will be involved in a hands-on experience through one of our departments throughout the building. Some examples include lifeguarding, preschool helper, culinary arts prep, and a variety of assistant opportunities. Students interested in this course should make arrangements through their counselor.

TECHNICAL PROGRAM

9880 **Year/3.0 – 3.5 credits** **Grade 10, 11, 12**
The Technical School Program is offered to tenth, eleventh, and twelfth grade students at one of two Intermediate Unit run Technical Schools: Aston or Folcroft. The training available at these schools is extensive and demanding and provides a graduate with an excellent background for technical jobs, 2 - 4 year technical colleges, or 4 - year colleges.
Students interested in this program should see their guidance counselor during the course selection process in order to apply for the following school year.

DISTANCE LEARNING

On occasion, courses may be offered in the distance learning environment. Small classes of Marple Newtown students join with students at another institution through the means of digital technology. Any additional costs are the responsibility of the student, unless otherwise agreed upon by the school district.

DUAL ENROLLMENT

Through agreements with local colleges and universities, junior and senior students may select to take college courses and earn both college and high school credit. Interested students should consult with their guidance counselor for specific course offerings and all applicable policies and procedures. All costs are the responsibility of the student, unless otherwise agreed upon by the school district.

DELAWARE COUNTY TECHNICAL SCHOOLS

Career and Technical Education

The Marple Newtown School District participates in career and technical education at DCTS. Each course is an extension of the high school program and elective credits towards high school graduation will be awarded. The courses are scheduled on a half-day basis.

Mission Statement:

The Delaware County Technical Schools are *preparing today's students for tomorrow's opportunities* by meaningful career training and a foundation for lifelong learning with support from business, industry and the community. At DCTS, courses are available in one of four clusters:

1. Health and Human Services Cluster
2. Construction Cluster
3. Power and Transportation Cluster:
4. Technology Cluster:

The DCTS catalog offers a complete description of each program and is available from your counselor.

STUDENT REGISTRATION PROCEDURES and TIMELINES

1. Students who indicate a desire to attend the Delaware County Technical Schools will complete an application form, which is available from their school counselor and online at <http://www.delcotech.org/>.
2. School Counselor will supply supplemental information for each student enrolling at DCTS (report card, transcript; if applicable, IEP, ER, and/or other pertinent information). School counselors will mail student application forms containing the supplemental information.
3. A committee, led by the DCTS Building Administrator, will evaluate all applications in light of the available information provided by the home school. When necessary, conferences will be arranged with the home school counselors, career instructors, and/or parents of the applicants in order to resolve the status of the questionable application. If sufficient openings are not available in the student's preferences, the student will be informed of openings in other programs.
4. Delaware County Technical Schools will protect the security of all confidential student records received from member districts.

REGISTRATION DEADLINE IS FEBRUARY 1, 2013

DELAWARE COUNTY
DCTS AVAILABLE
 COURSES
 TECHNICAL HIGH SCHOOLS



CONSTRUCTION

BUILDING TRADES

From architectural plans to finished projects, learn all aspects of the construction field.

CARPENTRY

Take pride in craftsmanship building structures from foundation to finish.

ELECTRICAL CONSTRUCTION TECHNOLOGY

Install and maintain modern electrical systems, explore traditional and alternative energy sources.

HEATING, VENTILATION AND AIR CONDITIONING (HVAC)

Install and maintain complex climate control systems for residential and commercial buildings.

ENVIRONMENTAL LANDSCAPE AND EQUIPMENT OPERATIONS

Take this award-winning program outdoors to explore environmental design, including hardscapes, waterscapes and nursery plants.



HEALTH & HUMAN SERVICES

COSMETOLOGY

This three-year program prepares students for the PA State Board of Cosmetology license.

CULINARY ARTS AND FOOD SERVICE MANAGEMENT

Prepare for Culinary Arts and Management Careers in the food industry.

CULINARY ARTS AND HOSPITALITY

Turn creativity into a 4-star career in one of today's growing industries.

DENTAL TECHNOLOGY

Earn your Dental Assistant certification and become a vital member of the dental health team.

EARLY CHILDHOOD EDUCATION

Pennsylvania's growing need for preschool and kindergarten teachers makes ECE a rewarding educational choice.

EMERGENCY AND PROTECTIVE SERVICES

Experience this comprehensive public safety education program in the state's only certified high school EMT program.

HEALTH OCCUPATIONS

Combine the love of helping others with science and technology while earning CNA certification in a hands-on clinical setting.

MEDICAL CAREERS

Make the hospital your classroom, as you prepare for the demands America's fastest growing and highly competitive career field.



POWER & TRANSPORTATION

AUTOMOTIVE TECHNOLOGY

Gain a competitive edge working with state-of-the-art equipment and professionals in the automotive industry.

COLLISION REPAIR TECHNOLOGY

Use state-of-the-art equipment for welding, metal repair, detailing and more.

LOGISTICS AND INVENTORY MANAGEMENT

Learn distribution services vital to today's retail and e-commerce industries.

TECHNOLOGY

ADVERTISING, DESIGN AND COMMERCIAL ART

Combine creativity and technology in desktop publishing, design and production.

COMPUTER NETWORKING AND DIGITAL FORENSICS

Learn to configure systems and analyze digital information.

COMPOSITE FABRICATION AND SHEET METAL ASSEMBLY

Study materials and processes used to build helicopters.

APPLY ONLINE! delcotech.org

ADDITIONAL ACADEMIC INFORMATION

PROMOTION FROM MIDDLE SCHOOL

To be admitted to the Marple Newtown High School a student must pass Math, English, Social Studies, and Science in the eighth grade. Failed subjects in any of these areas must be made up in summer school or through a pre-approved alternative program.

MARPLE NEWTOWN HIGH SCHOOL RESTORATION POLICY

Students at Marple Newtown High School may make-up courses following this protocol:

1. Students must attend an accredited summer school, or
2. If attendance at an accredited summer school is not possible, then the course will be rescheduled in a subsequent academic year, or
3. If either of these options is not possible then the student, in conjunction with his/her counselor, must submit a request to the Principal or his designee for approval to make up the course either through tutoring according to district guidelines or an approved correspondence program. This plan must include the reason(s) why summer school or rescheduling are not possible. Students who choose tutoring must take and pass Marple Newtown’s mid-term and final exams before school re-opens in September in order to receive credit for the course. A student who takes an approved correspondence course must take the final exam which is offered by that program. The final exam must be given at Marple Newtown High School under the supervision of a faculty member or administrator. The maximum grade that will be recorded on a student’s transcript is a 76.

MARKING SYSTEM

Grades for full year courses are as follows:

First Marking Period.....	1/5 or 20%
Second Marking Period.....	1/5 or 20%
Mid-Year Examination.....	1/10 or 10%
Third Marking Period.....	1/5 or 20%
Fourth Marking Period.....	1/5 or 20%
Final Examination.....	1/10 or 10%

Grades for semester courses are calculated as follows:

First Marking Period.....	2/5 or 40%
Second Marking Period.....	2/5 or 40%
Examination.....	1/5 or 20%

Our marking system is as follows:

Passing Grades - 70-100 Failing Grades - 0-69

Other grade designations include:

P = Pass	I = Incomplete
F = Fail	M = Medical
WP = Withdraw Passing	N = No Grade
WF = Withdraw Failing	

MNHS Grading Scale	
A+	= 99 -100
A	= 94 - 98
A-	= 92 - 93
B+	= 90 - 91
B	= 86 - 89
B-	= 84 - 85
C+	= 82 - 83
C	= 78 - 81
C-	= 76 - 77
D+	= 74 - 75
D	= 72 - 73
D-	= 70 - 71
F	= 69 and below

HONOR ROLL

Requirements for honor roll membership are as follows:

Distinguished Honor Roll:

- A grade of 92 or higher in all subjects.

Regular Honor Roll:

- A grade of 84 or higher in all subjects.

CLASS RANK

Class rank is determined at the end of the eleventh grade and after the first semester of the 12th grade by ranking the students by the average of all grades earned in grades 9, 10, 11, and 12. The average is based on all final grades earned in half credit courses, one credit courses and courses giving more than one credit. Advanced Placement and Honors level courses indicated by an asterisk are weighted.

EARLY COLLEGE ADMISSIONS PROGRAM

The regulations of the Pennsylvania State Board of Education include a reference to high school students and early college admission. The regulations cite that high school students may enroll (part-time) in college with the approval of the high school principal. The regulations also indicate that exceptionally able students may leave high school prior to the senior year to attend approved colleges full-time at the discretion of the school district. The high school diploma shall be awarded to these students upon successful completion of the freshman year of college.

Since the opportunity for a high school education comes only once, the high school administration feels that the high school experience should be a full, four-year experience. However, realizing that individual needs are equally important, the high school administration also feels that an alternative such as the early college admissions program has such merit.

PROCEDURE:

A student may receive a Marple Newtown High diploma through participation in the early college admissions program provided that:

- The student is accepted for early admission to an accredited college prior to high school graduation.
- A written request by the student and his/her parent/guardian is made to and approved by the high school principal. Evidence that the student has been accepted in an accredited college must accompany the request. A copy of the student's program for the first year of college must also be forwarded to the high school principal.
- Requests for early college admissions should be made as soon as all above items are completed.
- At the conclusion of a full year study (senior year) or a semester of study (second semester of senior year) and prior to high school graduation, the students must have forwarded to the high school an official college transcript indicating that the student has successfully completed a year or a semester of college work. The transcript will become a part of the student's high school permanent record.

Scheduling Worksheets

**SCHEDULING WORKSHEET FOR
INCOMING FRESHMAN
2013-2014**

NAME: _____ **H.R.** _____

Course #	Course Name	Semesters	Credit
✓ 0450	Physical Education	1	0.5
✓ 0451	Health	1	0.5
✓	English 9	2	1.0
✓	World Civ & Cultures I	2	1.0
✓	Math	2	1.0
✓	Science	2	1.0
✓	World Language	2	1.0
✓	Elective	1	0.5
✓	Elective	1	0.5

✓ = Required course for graduation

In the event that one or more of the electives you have chosen cannot be scheduled,
please list three alternative courses.

ALTERNATES:

- 1st Choice # _____ Name: _____
- 2nd Choice # _____ Name: _____
- 3rd Choice # _____ Name: _____

No changes to a student's course requests will be considered after June 28, 2013.

Signatures:

Counselor _____ Student _____ Parent _____

Scheduling Worksheets

**SCHEDULING WORKSHEET FOR FRESHMAN INTO
SOPHOMORE YEAR
2013-2014**

NAME: _____ **H.R.** _____

Course #	Course Name	Semesters	Credit
✓	Physical Education	1	0.5
✓	English 10 World Literature I	2	1.0
✓	World Civ & Cultures II	2	1.0
✓	Math	2	1.0
✓	Science	2	1.0 1.5
★	World Language	2	1.0
✓	Music/Art	1	0.5
	Elective	1	0.5

✓ = Required course for graduation ★ = Recommended

In the event that one or more of the electives you have chosen cannot be scheduled,
please list three alternative courses.

ALTERNATES:

- 1st Choice # _____ Name: _____
- 2nd Choice # _____ Name: _____
- 3rd Choice # _____ Name: _____

No changes to a student's course requests will be considered after June 28, 2013.

Signatures:

Counselor _____ Student _____ Parent _____

Scheduling Worksheets

SCHEDULING WORKSHEET FOR SOPHOMORE INTO JUNIOR YEAR 2013-2014

NAME: _____ H.R. _____

Course #	Course Name	Semesters	Credit	
✓	Physical Education	1	0.5	
✓ 0651	Health	1	0.5	
✓	English 11 Amer. Literature	2	1.0	
✓	American History	2	1.0	
✓	Math	2	1.0	
✓	Science	2	1.0	1.5
★	World Language	2	1.0	
✓	Junior Initiative	1	0.5	
	Elective	1	0.5	
	Elective	1	0.5	
	Elective	1	0.5	

✓ = Required course for graduation ★ = Recommended

In the event that one or more of the electives you have chosen cannot be scheduled,
please list three alternative courses.

ALTERNATES:

- 1st Choice # _____ Name: _____
- 2nd Choice # _____ Name: _____
- 3rd Choice # _____ Name: _____

No changes to a student's course requests will be considered after June 28, 2013.

Signatures:

Counselor _____ Student _____ Parent _____

Scheduling Worksheets

**SCHEDULING WORKSHEET FOR JUNIOR INTO
SENIOR YEAR
2013-2014**

NAME: _____ **H.R.** _____

Course #	Course Name	Semesters	Credit	
✓	Physical Education	1	0.5	
✓	English 12 World Literature II	2	1.0	
✓	Political & Economic Issues	2	1.0	
★	Math	2	1.0	
★	Science	2	1.0	1.5
✓ 9700	Senior Project	1	1.0	
	Elective	1	0.5	
	Elective	1	0.5	
	Elective	1	0.5	

✓ = Required course for graduation ★ = Recommended
Six credits required to be full time

In the event that one or more of the electives you have chosen cannot be scheduled,
please list three alternative courses

.ALTERNATES:

- 1st Choice # _____ Name: _____
- 2nd Choice # _____ Name: _____
- 3rd Choice # _____ Name: _____

No changes to a student's course requests will be considered after June 28, 2013.

Signatures:

Counselor _____ Student _____ Parent _____

MNHS Electives 2013-2014

Dept	Course Number	Elective	Grade	Applied Arts	Arts	Credits
Health and PE	0650	Physical Education	10, 11, 12			0.5
	0870	Strength Training	10, 11, 12			0.5
	0871	Life Guard/First Aid	10, 11, 12			0.5
	0872	Adv Team Sports	10, 11, 12			0.5
	0873	Aquatics II	10, 11, 12			0.5
	0892	Cardio Training	10, 11, 12			0.5
	0893	Nets	10, 11, 12			0.5
	0894	Athletic Lead & Coach	11, 12			0.5
	0895	Recreational P.E	10, 11, 12			0.5
	English	1870	Poetry	9, 10, 11, 12		X
1871		Theater as Living Arts	9, 10, 11, 12		X	0.5
1872		Cinema Dev & Appre	9, 10, 11, 12		X	0.5
1873		Speech	9, 10, 11, 12			0.5
1874		Journalism I	9, 10, 11, 12			0.5
1875		Creative Writing	9, 10, 11, 12		X	0.5
1876		Journalism II	9, 10, 11, 12			0.5
1878		Women's Lit of Amer	9, 10, 11, 12			0.5
1883		Reading Olympics	9, 10, 11, 12			0.5
1884		SAT Prep: Read/Write	10, 11, 12			0.5
Social Studies	2810	Psychology - AP	10, 11, 12			1.0
	2870	Sociology	10, 11, 12			0.5
	2871	Psychology	10, 11, 12			0.5
	2872	America's Civil War	9, 10, 11, 12			0.5
	2873	WWII and Vietnam	9, 10, 11, 12			0.5
	2874	International Relation	9, 10, 11, 12			0.5
	2875	Civil Rights Movement	9, 10, 11, 12			0.5
	2877	Presidents as People	9, 10, 11, 12			0.5
	2878	Leader & Character	9, 10, 11, 12			0.5
	Math	These electives can fulfill the 7 th credit requirement for math/science				
3716		Intro to Comp Sci I	9, 10, 11, 12	X		0.5
3717		Intro to Comp Sci II	9, 10, 11, 12	X		0.5
3721		Trigonometry	9, 10, 11, 12			0.5
3722		Intro to Statistics	9, 10, 11, 12			0.5
3723		Statistics	9, 10, 11, 12			1.0
3724		SAT Prep: Math	10, 11, 12			0.5
3725		Financial Literacy	9, 10, 11, 12			0.5
3726		Logic	9, 10, 11, 12			0.5
Science	These electives can fulfill the 7 th credit requirement for science/math					
	4831	Environmental Science	11, 12			0.5
	4832	Forensic Science	11, 12			0.5

Dept	Course Number	Elective	Grade	Applied Arts	Arts	Credits	
Applied Arts	6460	Computer Apps	9, 10, 11, 12	X		0.5	
	6860	Elem of Engineer I	9, 10, 11, 12	X		0.5	
	6861	Elem of Engineer II	9, 10, 11, 12	X		0.5	
	6865	Video Product/Broad	9, 10, 11, 12	X		0.5	
	6870	Graphic Design I	9, 10, 11, 12	X		0.5	
	6871	Graphic Design II	9, 10, 11, 12	X		0.5	
	6872	Drafting/CAD I	9, 10, 11, 12	X		0.5	
	6873	Drafting/CAD II	9, 10, 11, 12	X		0.5	
	6970	Business Law I	9, 10, 11, 12	X		0.5	
	6971	Business Law II	9, 10, 11, 12	X		0.5	
	6972	Accounting I	9, 10, 11, 12	X		0.5	
	6973	Sports & Enter Market	9, 10, 11, 12	X		0.5	
	6770	Child Development	9, 10, 11, 12	X		0.5	
	6771	Preschool Lab	10, 11, 12	X		0.5	
	6780	Culinary Arts I	9, 10, 11, 12	X		0.5	
	6781	Culinary Arts II	10, 11, 12	X		0.5	
	6782	Culinary Arts III	11, 12	X		0.5	
	Visual and Performing Arts	6890	Photography I	9, 10, 11, 12	X	X	0.5
		6891	Photography II	9, 10, 11, 12	X	X	0.5
		6892	Photography III	10, 11, 12	X	X	0.5
6893		Digital Imaging I	9, 10, 11, 12	X	X	0.5	
6894		Digital Imaging II	9, 10, 11, 12	X	X	0.5	
7560		Intro to Piano	9, 10, 11, 12	X	X	0.5	
7561		Intro to Guitar	9, 10, 11, 12		X	0.5	
7810		Music Theory - AP	10, 11, 12	X	X	1.0	
7870		Music Theory	9, 10, 11, 12		X	0.5	
7873		Music Business	9, 10, 11, 12	X	X	0.5	
7874		Amer Music Theater	9, 10, 11, 12		X	0.5	
7880		Band	9, 10, 11, 12		X	1.0	
7882		Orchestra	9, 10, 11, 12		X	1.0	
7883		Choir	9, 10, 11, 12		X	1.0	
7884		Sm Ensem Jazz	9, 10, 11, 12		X	0.5	
7885		Sm Ensem Percu	9, 10, 11, 12		X	0.5	
7886		Sm Ensem Instr	9, 10, 11, 12		X	0.5	
7887		Sm Ensem ACapella	9, 10, 11, 12		X	0.5	
7910		AP Studio Art – Draw	11, 12		X	1.0	
7911		AP Studio Art - 3D	11, 12	X	X	1.0	
7912		AP Studio Art - Photo	11, 12	X	X	1.0	
7913		AP Studio Art - Digit	11, 12	X	X	1.0	
7970	Paint and Drawing	9, 10, 11, 12		X	0.5		
7971	Visual Art	9, 10, 11, 12		X	0.5		
7972	Decor & Funct Arts	9, 10, 11, 12		X	0.5		
7973	Three Dim Design	9, 10, 11, 12		X	0.5		
7975	Illust & Cartoon	9, 10, 11, 12		X	0.5		
7980	Studio Art I	9, 10, 11, 12		X	1.0		
7981	Studio Art II	10, 11, 12		X	1.0		
7991	Ceramics I	9, 10, 11, 12		X	0.5		
7992	Ceramics II	10, 11, 12		X	0.5		

Note: In the Visual and Performing Arts department, AP Studio Arts courses 7910, 7911, 7912, 7913 require teacher recommendation.