



MOUNT CARMEL AREA HIGH SCHOOL
MOUNT CARMEL, PENNSYLVANIA
A CURRICULUM PLANNING GUIDE
FOR
STUDENTS, PARENTS AND FACULTY

Updated: August, 2017

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

MISSION STATEMENT

The mission of the Mount Carmel Area School District is to provide a comprehensive curriculum, with the belief that all are capable of learning in a caring and safe environment where all students will develop self-confidence, the ability to work independently, and cooperatively.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

MESSAGE FROM ADMINISTRATION

Welcome to Mount Carmel Area Junior – Senior High School. This curriculum planning guide has been created to assist you in planning your high school coursework. Please do not hesitate to challenge yourself by taking advantage of the variety of courses offered. Preparation in high school will facilitate your success in life after high school. Good luck in all of your future endeavors.

Lisa Varano,
High School Principal

Pete Cheddar,
Jr High School Principal

MESSAGE FROM THE GUIDANCE OFFICE

One purpose of the Guidance and Counseling Department is to assist you as you form your adolescent and adult identity. To this end, activities are planned in individual and small group formats for grades 7-12. These activities are designed to help you identify individual strengths, talents, areas of personal and career interest, and aspects that may need improvement or academic remediation.

Counselors help their advisees plan and evaluate their academic programs, monitor progress toward graduation, and assemble postsecondary alternatives. The choices students make each year directly affect the life options they have upon graduation. Don't hesitate to ask for advice, search through career and scholarship databases, visit with admissions and military representatives, and keep your family informed of your progress. With careful searching, thoughtful course selections, and honest effort and persistence, you can take pride in yourself and look forward to what life holds in store for you!

Anne Darrup
Guidance Counselor

Erica Nestico
Guidance Counselor

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

TABLE OF CONTENT

	Page #
MISSION STATEMENT	
MESSAGE FROM ADMINISTRATION AND GUIDANCE TO STUDENT AND PARENTS.....	8
SELECTION OF SUBJECTS.....	9
REQUIREMENTS	
Required Courses.....	10
Graduation Requirements/Grading/Honor Roll.....	11
Honor Society	12
Senior Project.....	12
Technical Prep and Special Education.....	13
GRADING	
GPA Calculations.....	14
Weighted Classes.....	14
Honor Rolls.....	15
Final Grade.....	15
Marking Period Percentage Exemption Table.....	16
Cumulative GPA.....	17
Class Rank.....	17
College Courses.....	18
TESTING PROGRAMS FOR COLLEGE ADMISSION.....	18
MIDDLE SCHOOL CURRICULUM.....	20
CURRENT COURSE SELECTION.....	26
Course Description:	
Art Courses:.....	27
<i>Ceramics, Sculptures and Metals (703)</i>	
<i>2D Art: Drawing, Printmaking and Paint Exploration (704)</i>	
<i>Ceramics, Sculptures and Metals II (706)</i>	
<i>2D Art II: Drawing, Printmaking and Paint Exploration (707)</i>	
<i>Ceramics, Sculptures and Metals III (708)</i>	
<i>Arts and Crafts (712)</i>	
<i>Fibers and Printmaking (713)</i>	
<i>Arts and Crafts 2 (714)</i>	
<i>Art Studio 12 (718)</i>	
<i>Fibers and Printmaking II (719)</i>	
Business Courses:.....	31
<i>Accounting I (105)</i>	
<i>Accounting II (110)</i>	
<i>Business and Consumer Law (115)</i>	
<i>Marketing Concepts (118)</i>	
<i>Business & Personal Finance (120)</i>	
Computer Courses:.....	33
<i>Computer Applications (132)</i>	
<i>Computer Web Design (175)</i>	
<i>Desktop Publishing (185)</i>	

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

English Courses:.....	34
<i>English 9 (209)</i>	
<i>English 10 (210)</i>	
<i>College English 11 (211)</i>	
<i>College English 12 (212)</i>	
<i>Honors English 09 (217)</i>	
<i>Honors English 10 (214)</i>	
<i>Honors English 11 (215)</i>	
<i>Honors English 12 (216)</i>	
<i>News Reporting (280)</i>	
<i>A. P. Literature (1202)</i>	
Foreign Languages:.....	39
<i>Latin I (311)</i>	
<i>Latin II (312)</i>	
<i>Latin III (313)</i>	
<i>Latin IV (314)</i>	
<i>Spanish I (321)</i>	
<i>Spanish II (322)</i>	
<i>Spanish III (323)</i>	
<i>Spanish IV (324)</i>	
Mathematics Courses:	42
<i>Algebra I (410)</i>	
<i>Advanced Algebra I (414)</i>	
<i>Algebra II (412)</i>	
<i>Advanced Algebra II (413)</i>	
<i>Calculus (415)</i>	
<i>College Algebra (430)</i>	
<i>Geometry (432)</i>	
<i>Advanced Geometry (433)</i>	
<i>Topics in Math (451)</i>	
<i>Trigonometry/ Analytical Geometry (450)</i>	
<i>Probability & Statistics (455)</i>	
<i>A.P. Calculus (1203)</i>	
Music Courses:.....	47
<i>Digital Music Theory</i>	
<i>Intro to Guitar</i>	
<i>Senior Band (725)</i>	
<i>Senior High Chorus (735)</i>	
Physical Education and Health Courses:.....	48
<i>Health 9 (809)</i>	
<i>Health 10 (813)</i>	
<i>Physical Education 9-12 (850)</i>	
<i>Adaptive Physical Education 9-12 (858)</i>	
Sciences Courses:.....	49
<i>Ecology (509)</i>	
<i>Honors Biology (511)</i>	
<i>Biology II (512)</i>	
<i>Earth and Space Science (515)</i>	
<i>Chemistry I (520)</i>	
<i>Chemistry II (521)</i>	
<i>Environmental Science (525)</i>	

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

<i>Advanced Physics (530)</i>	
<i>Anatomy and Physiology (535)</i>	
<i>A.P. Biology (1201)</i>	
<i>A.P. Chemistry (1204)</i>	
Social Studies Courses:.....	54
<i>Civics (635)</i>	
<i>Current Events (610)</i>	
<i>Modern American History (656)</i>	
<i>Psychology (626)</i>	
<i>Principals of Democracy (630)</i>	
<i>PA History (635)</i>	
<i>US History II (655)</i>	
<i>World History I (660)</i>	
<i>A.P. European History (1200)</i>	
Technology Education Courses:.....	58
<i>Industrial Arts 9 (906)</i>	
<i>Technology Education (910)</i>	
<i>Technology Education II (911)</i>	
<i>Power Energy and Transportation (920)</i>	
Additional Electives:.....	60
<i>Yearbook (270)</i>	
<i>Developmental Studies (771/772)</i>	
<i>TV Studio (760)</i>	
Special Education:.....	62
<i>Learning Support</i>	
<i>Emotional Support</i>	
<i>Social Worker Support</i>	
<i>Speech/Language Support</i>	
<i>Gifted Support</i>	
<i>Life Skills Support</i>	
<i>Multiple Disability Support</i>	
<i>Autistic Support</i>	
Northumberland County Area Vocational-Technical School.....	65
<i>Automotive Body Repair</i>	
<i>Automotive Mechanics I & II</i>	
<i>Carpentry</i>	
<i>Computer Technology</i>	
<i>Cooperative Education</i>	
<i>Cosmetology</i>	
<i>Electrical Construction</i>	
<i>Food Management, Production and Service</i>	
<i>Health Occupations Careers</i>	
<i>Occupational Child Care</i>	
<i>Protective Services</i>	
<i>Welding/Sheet Metal Fabrication</i>	
 <i>CAD Computer Aided Drafting</i>	
<i>HVAC Heating Ventilation and Air Conditioning</i>	

**MT CARMEL AREA HIGH SCHOOL
CURRICULUM PLANNING GUIDE**

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

TO STUDENTS AND PARENTS

Planning your educational program is always a serious responsibility. The subjects that you choose to study in high school today will greatly influence your future life.

This **Curriculum Planning Guide** is designed to encourage the wise and comprehensive planning of your secondary school program. It is intended to provide sufficient information so that the student and his/her parents may take a major responsibility in this planning. In selecting your courses of study give careful thought to your future educational and vocational goals, to your past academic achievement, and to your abilities, aptitude, and interest.

You are encouraged to build your individual program with these points in mind:

- 1 Get as much advice as you can in planning your program. The best planning is usually accomplished by the cooperative efforts of students, parents, teachers, and school counselors.
- 2 Wherever possible and assuming your interest are strong, develop a program which allows for a two or three year study in a particular subject.
- 3 Avail yourself of the fine arts offerings which are rich and varied.
- 4 Don't pass up the opportunity to develop skills and interest in the areas of business education, computer technology, and vocational education.
- 5 You should realize that the four years you spend in high school can be a rich period of growth. Those students who are not satisfied with the minimum program and who are willing to venture forth in many areas of the curriculum and extracurricular program will find many rewarding experiences.
- 6 You are urged to consider all of these factors in carefully planning a full program which will demand your very best.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

SELECTION OF SUBJECTS

The following are a few suggestions when selecting your courses:

Study carefully the entire program that is offered by the Mount Carmel Area High School so that you can take the fullest advantage of its variety and flexibility. Keep in mind graduation requirements.

Discuss with your parents, teachers, and counselors the practicability of your educational and vocational plans. Choose your subjects carefully, keeping in mind the subject areas in which you have been successful and unsuccessful up to now and the result of predictive tests you have taken; and

After meeting with your counselor, your parents will receive a copy of what subjects you have chosen. If there are any questions, they are urged to contact the counselor or principal. Parents are invited to participate in the student-counselor meeting.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Required Courses:

- Grade 9 – English 9
Algebra 1 or other math course
Biology I
Health 9
Physical Education
Industrial Arts
Language
Creative Computer Usage or Senior Band
Art, Senior Chorus or Developmental Studies
- Grade 10 – English 10
World History
Math course
Science course
Language (highly recommended)
Physical Education
- Grade 11 – College English 11 or other English course
US History
Math course
Science course
Language (highly recommended)
Physical Education
Health 11
- Grade 12 - College English 12 or other English course
Problems of Democracy
Math course
Science course
Language (highly recommended)

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Graduation Requirements:

Only credits acquired in grade 9 through 12 are counted for graduation requirement

24 Total credits are required for graduation.

GRADING SYSTEM / GRADUATION/ HONOR ROLL

Numerical grades are placed on report cards for each marking period. These grades correspond to the marking system listed below. Permanent record grades are recorded numerically.

A	90 - 100	<i>Excellent</i>	HONOR ROLL	
B	80 - 89	<i>Good</i>	Distinguished Honors	95 - 100
C	70 - 79	<i>Average</i>	1st Honors	90 - 94
D	65 - 69	<i>Poor</i>	2nd Honors	85 - 89
F	0 - 64	<i>Failure</i>		

*** Students earning a 69% or lower in any course will disqualify the student from honor roll status.**

Progress Reports

- Any parent wishing to schedule a conference must contact the guidance office. Teachers are not available during instructional time.
- Parents can access homework assignments and grades for their child through SIS. If you need to set up a user account, please contact the Technology Resources Office @339-1500 ext. 3152.
- Any assignment grade – lower than 70% - the parent will receive an email notification alerting them of the grade. Parents are reminded to update their email in SIS.
- *Student progress reports will be issued every 3 weeks*
- Report cards are issued quarterly (9 weeks) throughout the year to inform parents of their children's progress.
- Parent-teacher conferences are scheduled by teachers as needed.

Retention:

At the secondary level, a student may be considered for retention if he/she is failing (2) major subjects: reading, language arts, mathematics, social studies, and science, for the year and has not been retained already in that grade. (All requests for retention recommendations must be made by May 15th. Parental requests must come in writing and supported in writing by an independent evaluation or a physician's recommendation.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

HONOR SOCIETY

National Honor Society Eligibility Requirements Summary

(New policy for Class of 2020 and moving forward)

In order to actually become a member and be officially inducted into the National Honor Society in 10th grade, a student must meet the scholarship, leadership, service, and character requirements described below:

- Must attain a truncated 93 cumulative average at the end of each induction period
- Must meet honor roll requirements during induction period (to meet honor roll requirements, student's report card cannot have any D's or F's during any marking period)
- Must demonstrate leadership by participating in at least two extracurricular activities (in or out of school)
- Must complete at least 20 hours of community service
- Must meet character requirements in five faculty evaluations
- Must not be involved in any major/repeated discipline issues

National Honor Society (Grandfathered for current Sophomore, Junior and Senior class)

- Must have truncated 90% **overall** cumulative average
- Must have made honor roll for 3rd and 4th marking periods of last school year
- Must have made honor roll for 1st and 2nd marking periods of this school year

National Junior Honor Society Requirements

- 1) Must have a GPA of 90 or higher at the end of last school year
- 2) 1st Marking Period Honor Roll this year
- 3) 2nd Marking Period Honor Roll this year
- 4) Must not be involved in any major/repeated discipline issues

Senior Projects:

Each student will complete a project in one or more areas of concentrated study under the guidance of the high school faculty. The purpose of the student project is to assure attainment of skills in application, analysis, synthesis, and evaluation of information, and the communication of significant knowledge and understanding. Projects may be completed by individuals or groups of no more than four members. All criteria for this project are defined in the district Senior Project Packet which can be picked up in the high school office.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Technical Preparation Sequence:

Students may elect to take a program/programs at the Northumberland County Area Vocational Technical School. In order to graduate from Mount Carmel Area, students must achieve Mount Carmel Area High School course completion requirements in language arts, social studies, mathematics, science/environmental education, wellness and fitness, and driver education.

These requirements are as follows:

1. The equivalent of 4 planned courses in communications (5 credits)
2. The equivalent of 3 planned courses in science, technology, environment, and ecology studies (3 credits)
3. The equivalent of 3 planned courses in citizenship/career education/work (3 credits)
4. The equivalent of 3 planned courses in mathematics (3 credits)
5. Electives including arts, humanities, computer education or other approved elective (2 credits)
6. 3 planned courses in physical education (6/10ths of a credit) and 2 planned courses in health/wellness (5/10ths of a credit) (**exploratory vo-tech 1 planned course in physical education and 1 planned course in health**)
7. 1 planned course in home economics/industrial arts (6/10ths of a credit) (**not required for exploratory vo-tech**)

Special Education:

Each eligible student will be provided with an Individual Education Program (IEP) developed by the IEP team. Those students who satisfy the requirements of the IEP shall be granted a diploma by the district. Teachers and staff will monitor student progress and will provide appropriate graduation processes and procedures.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

GPA Calculation:

Grade multiplied by course credit = points

Total points divided by total credits = GPA

If a course is withdrawn, it receives 0 credit and is not calculated in the GPA.

For example, the marking period GPA calculation for a student taking two 1.00 credit courses and one .50 credit course would be:

$$\frac{\text{Grade 1} * (1.00 \text{ credit}) + \text{Grade 2} * (1.00 \text{ credit}) + \text{Grade 3} * (.50 \text{ credit})}{2.50 \text{ credits}} = \text{GPA}$$

For a weighted GPA, Multiply the grade by the weight value first
Weighted course do not apply to students in 7th or 8th grade.
Starting in 9th grade, weighted classes will be used.

The grade for Driver's Education is not included in GPA calculations.

Weighted Classes:

To encourage students to challenge themselves, a weighted system has been instituted to rank students. This system was implemented beginning with the 1999-2000 freshman class. The more difficult the class is, the higher the ranking. The scale used for this ranking is:

EXAMPLE:

Course Level 1 = 1.00 Grade = 80, Weighted Grade = 80.0

Course Level 2 = 1.04 Grade = 80, Weighted Grade = 83.2

Course Level 3 = 1.08 Grade = 80, Weighted Grade = 86.4

Course Level 4 = 1.12 Grade = 80, Weighted Grade = 89.6

Weighted Final Averages will be calculated at the END of the school year, for rating purposes only.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Honor Rolls:

Honor rolls are calculated for each marking period. The marking period GPA is used to determine the Honor Roll list. A student with an I (Incomplete), U (Unsatisfactory), F (Fail), or a grade below 70 in any subject (including Driver's Education) will not qualify for any Honor Roll, regardless of the value of the GPA.

Distinguished Honors: Minimum Marking Period GPA of 95.00 and 3.50 Minimum Credits

First Honors: Minimum Marking Period GPA of 90.00 and 3.50 Minimum Credits

Second Honors: Minimum Marking Period GPA of 85.00 and 3.50 Minimum Credits

Final Grade:

Weighted average of all marking period and exam grades = final grade

The final grade is updated at the end of each marking period. The final grade is an approximation of the final grade based on performance. The final grade will not be final until the end of the 4th marking period. The approximation is based on the following.

Grades for all marking periods count as 80% of the final grade (Each marking period is weighted at 20%). Midterm and Final Exams count as 20% of the final grade (Each exam is weighted at 10%).

When a marking period grade is missing, the percentage for the existing marking period grades is increased. For example: If you have only 2 marking period grades, each is worth 40%. The same holds true for the exams. During the year, you will only have a midterm grade, the midterm grade is being weighted as 20%. After the final exam is taken, the midterm will be weighted at 10% and the final will be weighted at 10%.

For other scenarios, use the attached marking period exception table to determine the percentages. When calculations are performed, each grade is multiplied by its specific percentage.

For example: If a course has grades for all marking periods, has a midterm and final exam, the calculation is as follows:

$$\frac{Mp1 * (.20) + Mp2 * (.20) + Mp3 * (.20) + Mp4 * (.20) + exam 1 * (.10) + exam 2 * (.10)}{1.0} = \text{Final Grade}$$

If a course has grades for marking periods 1,2 & 3 and a midterm grade (Using the attached table for the percentages) the calculation is as follows:

$$\frac{Mp1 * (.266) + Mp2 * (.267) + Mp3 * (.267) + exam 1 * (.20)}{1.0} = \text{Final Grade}$$

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Marking Period Percentage Exception Table

Percentages of each marking period are defined as follows:

MP1	MP2	MP3	MP4	EXAM 1	EXAM 2
26.6%	26.7%	26.7%	No Grade	20.0%	No Grade
26.6%	26.7%	26.7%	No Grade	No Grade	20.0%
26.6%	26.7%	26.7%	No Grade	10.0%	10.0%
26.6%	26.7%	No Grade	26.7%	20.0%	No Grade
26.6%	26.7%	No Grade	26.7%	No Grade	20.0%
26.6%	26.7%	No Grade	26.7%	10.0%	10.0%
26.6%	No Grade	26.7%	26.7%	20.0%	No Grade
26.6%	No Grade	26.7%	26.7%	No Grade	20.0%
26.6%	No Grade	26.7%	26.7%	10.0%	10.0%
40.0%	40.0%	No Grade	No Grade	20.0%	No Grade
40.0%	40.0%	No Grade	No Grade	No Grade	20.0%
40.0%	40.0%	No Grade	No Grade	10.0%	10.0%
40.0%	No Grade	40.0%	No Grade	20.0%	No Grade
40.0%	No Grade	40.0%	No Grade	No Grade	20.0%
40.0%	No Grade	40.0%	No Grade	10.0%	10.0%
40.0%	No Grade	No Grade	40.0%	20.0%	No Grade
40.0%	No Grade	No Grade	40.0%	No Grade	20.0%
40.0%	No Grade	No Grade	40.0%	10.0%	10.0%
50.0%	50.0%	No Grade	No Grade	No Grade	No Grade
50.0%	No Grade	No Grade	50.0%	No Grade	No Grade
80.0%	No Grade	No Grade	No Grade	20.0%	No Grade
80.0%	No Grade	No Grade	No Grade	No Grade	20.0%
80.0%	No Grade	No Grade	No Grade	10.0%	10.0%
100.0%	No Grade	No Grade	No Grade	No Grade	No Grade
No Grade	26.6%	26.7%	26.7%	20.0%	No Grade
No Grade	26.6%	26.7%	26.7%	No Grade	20.0%
No Grade	26.6%	26.7%	26.7%	10.0%	10.0%
No Grade	40.0%	No Grade	40.0%	20.0%	No Grade
No Grade	40.0%	No Grade	40.0%	No Grade	20.0%
No Grade	40.0%	No Grade	40.0%	10.0%	10.0%
No Grade	50.0%	50.0%	No Grade	No Grade	No Grade
No Grade	50.0%	No Grade	50.0%	No Grade	No Grade
No Grade	80.0%	No Grade	No Grade	20.0%	No Grade
No Grade	80.0%	No Grade	No Grade	No Grade	20.0%
No Grade	80.0%	No Grade	No Grade	10.0%	10.0%
No Grade	100.0%	No Grade	No Grade	No Grade	No Grade
No Grade	No Grade	40.0%	40.0%	20.0%	No Grade
No Grade	No Grade	40.0%	40.0%	No Grade	20.0%
No Grade	No Grade	40.0%	40.0%	10.0%	10.0%
No Grade	No Grade	50.0%	50.0%	No Grade	No Grade
No Grade	No Grade	80.0%	No Grade	20.0%	No Grade
No Grade	No Grade	80.0%	No Grade	No Grade	20.0%
No Grade	No Grade	80.0%	No Grade	10.0%	10.0%
No Grade	No Grade	100.0%	No Grade	No Grade	No Grade
No Grade	No Grade	No Grade	100.0%	No Grade	No Grade
No Grade	No Grade	No Grade	80.0%	20.0%	No Grade
No Grade	No Grade	No Grade	80.0%	No Grade	20.0%
No Grade	No Grade	No Grade	80.0%	10.0%	10.0%

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Cumulative GPA:

Cumulative GPA is calculated starting with 9th grade. Cumulative GPA is calculated using the total number of points and credits from the previous year(s) and the total number of points and credits for the current year. To calculate the cumulative GPA, the previous year(s) report cards would be needed to calculate points. Averaging of the current and previous year(s) individual GPA will yield a discrepancy. Points and Credits must always be used. This is done to prevent multiple rounding of grades. When calculating a cumulative GPA for the current year, grading calculates a cumulative GPA for students with an I (Incomplete), skipping the incomplete courses. Points for each course are calculated in the GPA calculation listed below. Total points are calculated by adding the points for each course.

$$\frac{9^{\text{th}} \text{ grade total points} + 10^{\text{th}} \text{ grade total points} + 11^{\text{th}} \text{ grade total points} + 12^{\text{th}} \text{ grade total points}}{9^{\text{th}} \text{ grade credits earned} + 10^{\text{th}} \text{ grade credits earned} + 11^{\text{th}} \text{ grade credits earned} + 12^{\text{th}} \text{ grade credits earned}} = \text{cumulative GPA}$$

Class Rank:

The class rank is based on the cumulative GPA of everyone in the grade. Class rank is only accurate up to the time that the report card is printed. Students who have incomplete grades will not rank, so when he or she completes the work, he or she will be ranked, which can cause other student's ranks to change. Also, any grade correction to a student can cause another student's rank to go up or down. New students or students who have withdrawn will also affect class rank. Throughout the school year, this rank is likely to fluctuate and is only displayed to give a general idea of what percentage of the class the student is in. The final class rank will be determined at the end of the school year.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

College Courses:

College courses taken within a school day are calculated into the GPA. These courses have course numbers of 2000 through 2999. College courses taken outside of a school day are not calculated into the GPA, but are displayed on the transcript. These courses have course numbers of 3000 through 3999. College courses have course level 4; weighted 1.12.

High school report card grades and calculations will be based on the following conversion.

College Credit	High School Credits
1.00	0.33
2.00	0.66
3.00	1.00
4.00	1.33

<u>Alphabetical Grade</u>	<u>College Grade (4.0 Scale)</u>	<u>High School Grade</u>
A	4.00	100
A-	3.67	92
B+	3.33	88
B	3.00	85
B-	2.67	82
C	2.00	P
D	1.00	P
F	0.00	F

Testing Programs for College Admission:

Students of Mt Carmel Area High School planning to attend college should take part in the various college admission programs that are offered throughout the year. As most colleges require information from these tests, it is important that college-bound students become thoroughly familiar with the programs early in their high school career.

Guidance Counselors will assist in learning more about the admission testing programs listed below:

PSAT/NMSQT – The Preliminary Scholastic Assessment Test/National Merit Scholarship Qualifying Test, is a test that is taken by high school juniors and sophomores. It is given at the Mt Carmel Area High School by the College Entrance Examination Board (or College Board) and the National Merit Scholarship Corporation once a year in October. Students who wish to be considered in the National Merit Scholarship competition must take this test.

ACT – The American College Testing Program (ACT) is made up of a test battery that includes four tests, a Student Profile section, and four high school grades that you report yourself. Both high school juniors and seniors take the ACT test Battery, which is given five times a year on Saturdays. (Dates and locations for this test are available to students each September in the Guidance Office).

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

SAT I – The Scholastic Assessment Test, or (SAT-I) is a test which is taken by both high school juniors and seniors. The SAT is part of the college board’s Admission Testing Program (ATP). Dates and locations for this test are available to students each September in the Guidance Office.

SAT II – The Achievement Test (SAT II) are given by the College Board and may be required by some colleges. They differ from aptitude tests in that they test you on what you know. Dates and locations for this test are available to students each September in the Guidance Office.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Middle School 7th and 8th Grade Curriculum

Grade 8: To be promoted to grade 8, students cannot fail (under 65%) more than 3 major credits. ELA and Math are considered 2 credits each due to double periods.

Grade 9: To be promoted to grade 9, students cannot fail (under 65%) more than 3 major credits. ELA and Math are considered 2 credits each due to double periods.

Grade 7 Schedule	Grade 8 Schedule
ELA 7	ELA 8
Math 7 (or Advanced Math 7)	Math 8 (or Algebra I)
Science 7	Science 8
American History I	Geography
Chorus/Art 7/PE	PSSA Review/Chorus or Music/PE
PSSA Review/Computers 7	Art 8/Computers 8

Middle School Course Descriptions

Course: Communications – Grade 7	
Credit: 2	Grades Offered: 7 th Grade
Weight: 1.0	

Seventh grade Communications focuses on grammar, including parts of speech, proper punctuation, capitalization, and types of sentences. It also introduces basic writing and editing skills for informative, persuasive, and narrative papers. Poetry and free writing are addressed as well. The reading portion of this course is designed to cover the different aspects of literature including poetry, short stories, novels, and drama.

Course: Communications – Grade 8	
Credit: 2	Grades Offered: 8 th Grade
Weight: 1.0	

Eighth grade Communications focuses on grammar including parts of speech, punctuation, capitalization, and sentence types. It introduces basic writing and editing skills for informative, persuasive, and narrative papers, as well as poetry. The reading portion of the course is designed to cover the different aspects of literature including poetry, short stories, novels, and drama.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

	Course: Math Grade 7	
Credit:	2	Grades Offered: 7th
Weight:	1.0	

Instructional time will be spent on four critical areas: (1) Developing understanding of and applying proportional relationships; (2) developing understanding of operations with rational numbers and working with expressions and linear equations; (3) Solving problems involving scale drawings and informal geometric constructions, and working with two- and three-dimensional shapes to solve problems involving area, surface area, and volume; and (4) drawing inferences about populations based on samples.

	Course: Advanced Math 7	
Credit:	2	Grades Offered: 7th
Weight:	1.0	

(Formerly Math - Grade Eight (For Seventh Graders))

The main focus of Math 8 for seventh graders is to prepare students for subsequent high school mathematics courses, mainly algebra. During this course, seventh grade students will complete the general seventh grade and general eighth grade curriculum all in one year. The course is laden with mathematical vocabulary so students can more appropriately express their mathematical solutions. Proper problem solving techniques are modeled so students can hone their procedural, as well as their computational skills.

Students will begin to expand their knowledge of the real number system by focusing on properties and computations of rational numbers. They will extend their arithmetic skills to algebraic problems as they will apply these properties to expressions and equations containing variables. Students will be able to set up and solve proportions as well as other multi-step one variable equations. They will also find and graph the solution set of algebraic inequalities. In addition to the focus on Algebra, Math 8 for seventh graders includes lessons on probability and statistics, where students will analyze various sets of data and graph and make predictions. The course also encompasses numerous topics in geometry, such as various 2-D and 3-D measurements, surface area and volume formulas.

	Course: Math Grade 8	
Credit:	2	Grades Offered: 8th Grade
Weight:	1.0	

The main focus of Math 8 is to prepare students for subsequent high school mathematics courses, mainly algebra. The course is laden with mathematical vocabulary so students can more appropriately express their mathematical solutions. Proper problem solving techniques are modeled so students can hone their procedural, as well as their computational skills.

Students will begin to expand their knowledge of the real number system by focusing on properties and computations of both rational and irrational number sets. They will extend their

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

arithmetic skills to algebraic problems as they will apply these properties to expressions and equations containing variables. Students will be able to set up and solve multi-step one variable equations. They will also find and graph the solution set of algebraic inequalities. In addition to the focus on Algebra, Math 8 includes lessons on probability and statistics, where students will analyze various sets of data and graph and make predictions. The course also encompasses numerous topics in geometry, with a focus on students discovering the Pythagorean Theorem.

	Course: Algebra I	
Credit:	2	Grades Offered: 8th or 9th
Weight:	1.0	

This course focuses on mastery of the Pennsylvania Academic Standards for Mathematics incorporating Pennsylvania Assessment Anchors to prepare students for the applicable PSSA and /or Keystone Exams. The content of Algebra I is organized around families of functions, with special emphasis on linear and quadratic functions. As students study each family of functions, they will learn to represent them in multiple ways-as verbal descriptions, equations, tables and graphs. Students will also learn to model real-world situations using functions in order to solve problems arising from those situations. In addition to its Algebra content, Algebra I includes lessons on percents, probability and data analysis, as well as numerous examples and exercises involving geometry. These math topics often appear on standardized test, so maintaining the students' familiarity with them is important.

	Course: PSSA Prep	
Credit:	.50	Grades Offered: 7th and 8th Grade
Weight:	1.0	

PSSA Prep is a class for students in Grades 7 and 8 designed to review Pennsylvania State Standards and Eligible Content applicable to the administration of annual PSSA testing. Grade 7 meets 3 days out of a 6-day cycle and Grade 8 meets 2 days out of that cycle. Classes are taught as a reinforcement of material taught by the student's regular teacher.

	Course: 7thGrade Science	
Credit:	1	Grades Offered: 7th Grade
Weight:	1.0	

General Science 7 is a course designed to introduce students to the structure and function of organisms and how those organisms interact in the environment.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

	Course: 8th Grade Science	
Credit:	1	Grades Offered: 8th Grade
Weight:	1.0	

General Science 8 is a course designed to give students an understanding of the connection between matter and energy as well as the principles of motion. Topics included in this course will include the structure and interaction of matter, principles of energy and energy transformation, the motion of objects, simple machines and electricity.

	Course: U.S. History I (Beginnings to 1877)	
Credit:	1	Grades Offered: 7th Grade
Weight:	1.0	

This American history course covers Discovery; European contributions and forces; Spanish and Portuguese conquests in the Americas; English, French, and Dutch in the Americas; The 13 English Colonies in America; Accomplishments of nationalistic groups; Beginnings of an American identity; War of Independence; establishment of a new nation, the launching of a new Republic, western development, and frontier influence; cultural and constitutional growth; internal dissension and international problems; The Civil War, North vs. South and ends with reconstruction of our nation in 1877.

	Course: Geography (8th Grade)	
Credit:	1	Grades Offered: 8th Grade
Weight:	1.0	

Place Geography is a combination of Geography and Modern World History. Through Geography, students will analyze the events that shaped the modern world, focusing on history, political systems, economic systems and geopolitical relationships.

	Course: Physical Education	
Credit:	.33	Grades Offered: 7th to 12th
Weight:	1.0	

The Physical Education curriculum focuses on mastery of the PA Academic Standards for Health, Safety and Physical Education. Students participate in activities that are designed to help them understand and develop the components of health-related fitness and its contributions to a healthy lifestyle. This program provides each student with the opportunity to participate in a comprehensive program consisting of skill development, lead up activities, team sports, and physical fitness activities. The students receive instruction in rules, skills, and strategies associated with different sports through individual sport units. This program promotes teamwork, goal setting, strategy, leadership, cooperation, and friendly competition.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

	Course: General Music	
Credit:	.33	Grades Offered: 7th Grade
Weight:		

The 7th Grade General Music Course focuses on the lives of 22 composers as well as listening to the musical works which represent each individual composer's distinctive style.

	Course: General Music	
Credit:	.33	Grades Offered: 8th Grade
Weight:	1.0	

The 8th Grade Music Course is to create a technology-empowered general music classroom that enables the music teacher to provide a sustained comprehensive education in music as an active music maker, creator, and responder.

	Course: Chorus	
Credit:	.33	Grades Offered: 7th and 8th
Weight:	1.0	

The MCA Instrumental Music Department believes in high ideals of unity through achieving worthwhile goals in musical performance and development of good character. The Department promotes the high ideals of musicianship, character, and discipline among all members and provides the opportunity to share in unity and fellowship through musical performance.

	Course: 7th Grade Computer Technology	
Credit:	.50	Grades Offered: 7th
Weight:	1.0	

This course is designed to develop and improve the skill of touch keyboarding as a foundation for personal and business use. Students are introduced to techniques that will allow them to memorize the order of the keys and practice typing for speed and accuracy. The course stresses typing without looking at the computer keyboard or backtracking to fix mistakes. Students will also learn how to use Microsoft Word to create and format basic documents.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

	Course: 8th Grade Computer Technology	
Credit:	.50	Grades Offered: 8th
Weight:	1.0	

This course is designed to build upon knowledge gained in Computer Technology 7th Grade. The goal will be to continue to develop and improve the skill of touch keyboarding as a foundation for personal and business use. Students are introduced to techniques that will allow them to memorize the order of the keys and practice typing for speed and accuracy.

	Course: 7th Grade Art Fundamentals	
Credit:	.33	Grades Offered: 7th Grade
Weight:	1.0	

* Each class meets 2 days out of 6 day rotating schedule
Covers the fundamentals of art in 2D & 3D Arts

State Standards based for 7th grade and using the elements of design in art. This class is a basic introductory art course which will provide students with a wide variety of experiences in drawing, painting and other 2 & 3D media; it will introduce them to the elements and principles of art and art history. The media will include pencil, charcoal, water color, markers, scratchboard, clay and/or polymer clay and crayons although not limited to. Artwork will include but not limited to, architecture, cartooning, perspective, color, design, and drawing by description, and clay. The students will keep an art history folder used for the final exam. The students will master the ruler and compass.

*Students in art class will help with the prom.

*Students in all classes will participate in various public art contests throughout the school year.

**MT CARMEL AREA HIGH SCHOOL
CURRICULUM PLANNING GUIDE**

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Art Courses:	Advanced Geometry – 433
Ceramics, Metals, & Sculptures I – 703	Algebraic and Geometric Functions – 451
2D Art - 704	Trigonometry/ Analytical Geometry -450
Ceramics, Metals, & Sculptures II – 706	Probability & Statistics – 455
2D Art II - 707	AP Calculus - 1203
Ceramics, Metals, & Sculptures III - 708	Music Education:
Arts and Crafts - 712	Senior Band – 725
Fibers & Printmaking I- 713	Digital Music Theory I – 730
Art 12 Senior Studio – 718	Digital Music Theory II – 731
Fibers & Printmaking II- 719	Senior High Chorus - 735
Business Courses:	Musical Theatre- 740
Accounting I – 105	Physical Education & Health:
Accounting II – 110	Health 9, 11 – 809, 813
Business and Consumer Law – 115	Physical Education 9,10,11,12 – 850
Marketing Concepts - 118	Science Courses:
Personal Finance – 120	Astronomy –
Computer Courses:	Biology - 510
Computer Applications – 132	Biology II – 512
Computer Web Design – 175	Earth and Space Science – 515
Desktop Publishing– 185	Chemistry I – 520
English Courses:	Chemistry II – 521
English 9 – 209	Environmental Science – 525
English 10 – 210	Physics – 526
College English 11 – 211	Advanced Physics – 530
College English 12 – 212	Anatomy and Physiology - 535
Honors English 10 - 214	AP Biology - 1201
Honors English 11 – 215	AP Chemistry - 1204
Honors English 12 - 216	Social Studies:
Horror and Fantasy - 251	Civics –
News Reporting – 280	Current Events – 610
AP English Literature - 1202	
Foreign Languages:	Psychology – 626
Latin I,II,III,IV – 311, 312, 313, 314	Principles of Democracy – 640
Spanish I,II,III,IV – 321, 322, 323, 324	PA History – 635
	US History II – 655
	World History I – 660
	World History II – 661
	Economics - 670
Mathematics:	21- Century Global Studies –
Essentials of Mathematics – 406	AP European History – 1200
Algebra I – 410	Technology Education:
Advanced Algebra I – 414	Industrial Arts 9 – 906
Algebra II – 412	Technology Education I – 910
Advanced Algebra II - 413	Technology Education II – 911
Calculus – 415	Power, Energy and Transportation - 920
College Algebra – 430	Additional Electives:
Geometry –432	Yearbook- 270
	SAT Prep – 825
	Developmental Studies – 771
	TV Studio – 760

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Ceramics, Metals, and Sculptures (703)

<u>Grades Offered:</u>	11 th , 12 th	<u>Credit:</u> .5
<u>Recommended Grade:</u>		<u>Weight:</u> 1.0
<u>Prerequisite:</u>	2 prior art courses mandatory with a “B” average or better	
<u>Periods/cycle:</u>	3	

State Standards for the Visual Arts, include elements and principles of design. In this intermediate course, the students will be exposed to a variety of “**sculptural**” techniques including but not limited to carving of Styrofoam, building of wood, wire and plaster sculptures. The students will build 3 dimensional forms selecting a master artist as their motivation. The students will be able to identify all the attributes and life of the artist. Incorporated within the “**metals**” portion of the course students will be taught the use and safety of traditional hand tools such as jewelers saw, dremel tools, with application of filing, cutting, piercing, chasing and repousse’, basic soldering and etching techniques. The students will be able to identify tools and their usage, use safety practices with tools, proper attitudes toward work and clean-up procedures, creating rings, pendants, and pins. The students will be introduced to history of metals and sculpture and a variety of “master artists”. The students will find the meaning of jewelry. Within “**ceramics**” the goal of this course is to introduce students to the possibilities of clay. The students will learn the basic characteristics and makeup of clay in order to complete successful clay projects. The students will understand the chemical makeup of clay and glazes, the firing process, building techniques such as pinch, coil slab, molding techniques, wheel throw pots, various decorating techniques, and different clay bodies. The students will be introduced to history and cultural use of ceramics and different historical constructions.

2D Art I - Drawing, Printmaking, and Painting Exploration (704)

<u>Grades Offered:</u>	10 th , 11 th , 12 th	<u>Credit:</u> .5
<u>Recommended Grade:</u>		<u>Weight:</u> 1.0
<u>Prerequisite:</u>	Teacher Approval	
<u>Periods/cycle:</u>	3	

State standards based. This class is an intermediate art studio course, in which a variety of drawing, printmaking, and painting will be taught. The materials will be but not limited to, pastels, conte crayon, pencils, charcoal, stippling, pen and ink, scratch board, contrasto, block printing, mono printing, various types of paint, ceramic tiles and glazes also being explored is the mediums of watercolor, and acrylic mediums. 2D1 will be emphasizing technique in drawing and painting medium exploration. The students will be taught the care of tools, mixing paints/color =, masking techniques and an emphasis on the elements/principles of design. Works of art will show-abstract, realistic, and interpretative art styles. The students will participate in the local News Item and VFW Patriotic art contests. The students will master and be able to stretch and prime a canvas and be able to measure and cut a mat.

*Students in the elective art classes will help with the prom.

*Students in all classes will participate in various public art contests throughout the school year.

*Students will participate in the end of the year art show.

Art Courses (continued)

Ceramics, Metals, and Sculptures II (706)

<u>Grades Offered:</u>	10 th , 11 th , 12 th	<u>Credit:</u> .5
<u>Recommended Grade:</u>		<u>Weight:</u> 1.0

MT CARMEL AREA HIGH SCHOOL

CURRICULUM PLANNING GUIDE

Prerequisite: 3D Art
Periods/cycle: 6

State Standards for the Visual Arts and elements and principles of design will be explored, with a 3 dimensional focus. Students will apply the knowledge from the CSM course. This course will include the CSM course information, processes, safety expectations and procedures, along with working with glass enameling on copper. The students will also mix ceramic glaze formulas and further explore historical clay techniques, such as slip trailing, printing on clay, and graffito imagery. Post projects include making ceramic fountains and mobiles. The students will be aware of local artist working in these sculptural medias.

2D Art II (707)

Grades Offered: 10^a, 11^a, 12^a Credit: .5
Recommended Grade: Weight: 1.0
Prerequisite: 2D Art I & Teacher Permission
Periods/cycle: 3

Working with a combination of independent projects and structured assignments, students will expand on the fundamentals they learned in 2D Art I. Some of the media is as follows but is not limited to: drawing, pen & ink, watercolor/acrylic/oil painting, pastels, ceramic tiles, block printing, etching printing, sandblasting, palette knife painting, scratchboard, silk dye painting, cut canvas art, flex art projects, and local contests (i.e. News Item Calendar Header, VFW Patriotic Art). Students will explore a variety of art materials and techniques while improving their drawing and painting skills. After exploring different techniques, students are encouraged to develop their own style and focus on the projects they would like to accomplish in a specified media field.

*Students in the elective art classes will help with the prom.

*Students in all classes will participate in various public art contests throughout the year

Ceramics, Metals, and Sculptures III (708)

Grades Offered: 12^a Credit: .5
Recommended Grade: 12^a Weight: 1.0
Prerequisite: 3 prior art courses, including CMS II mandatory with a "B"
average or better
Periods/cycle: 6

State Standards for the Visual Arts and elements and principles of design will be explored, with a 3 dimensional focus. Students will apply the knowledge from the CSM course. This course will include the CSM course information, processes, safety expectations and procedures, along with working with glass enameling on copper, bead making(in glass and other media), and stained glass. The students will also mix ceramic glaze formulas and further explore historical clay techniques, such as slip trailing, printing on clay, and graffito imagery. The students will be aware of local artist working in these sculptural medias. The CMSIII student will have a chance to explore their interest in this area of study.

Art Courses (continued)

Arts and Crafts I (712)

Grades Offered: 9^a Credit: .17
Recommended Grade: 9^a Weight: 1.0
Prerequisite: None

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Periods/cycle: 2 – one semester

State standards based, research and cultural emphasis. This course is a media and historical project based class. It includes but not excluding other media and subject matter, tempera, acrylic painting, clay, clocks, tiles, leather, PA Dutch Hex signs, charcoal, pastel, and optical art. Students will explore a variety of artistic movements that are based on history and inventions.

*Students in art class will help with the prom.

*Students in all classes will participate in various public art contests throughout the school year.

*Students will participate in the end of the year art show.

Arts and Crafts 2 (714)

Grades Offered: 10-12^a

Credit: .17

Recommended Grade:

Weight: 1.0

Prerequisite: Teacher permission

Periods/Cycle: 3

State standards based, research and cultural emphasis. This course builds off of 9^a grade Arts and Crafts. It includes but not excluding other media and subject matter, clay and polymer clay, dream catchers, mobiles, wind chimes, tiles, leather, wood burning, metal embossing, plaster/foam sculptures, paper marbling, sand blasting, sewing, string art, latch hook work, tie dye, fabric stamping and dying, acrylic painting and bleach dying.

*Students in the elective art classes will help with the prom.

*Students in all classes will participate in various public art contests throughout the school year.

*Students will participate in the end of the year art show.

Arts and Crafts 3 (716)

Grades Offered: 10-12^a

Credit: .17

Recommended Grade:

Weight: 1.0

Prerequisite: Teacher permission

Periods/Cycle: 3

State Standards based, research and cultural emphasis. This course builds off of Arts and Crafts 1 and 2. It includes but not excluding other media and subject matter, rag rugs, small loom weaving, soap making, candle pouring, basketry, crocheting, sewing, embroidery, whirlgigs, wood carving/chipping, leather belts, dye work, moccasin making, hat making, lamps and stained glass.

*Students in the elective art classes will help with the prom.

*Students in all classes will participate in various public art contests throughout the school year.

*Students will participate in the end of the year art show.

Fibers and Printmaking (713)

Grades Offered: 9th

Credit: .17

Recommended Grade: 9th

Weight: 1.0

Prerequisite: None

Periods/cycle: 2 – one semester

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

State Standards for the Visual Arts and elements of design. An art studio course where a variety of printmaking and fiber experiences and processes will be explored. The printmaking processes explored could include but not limited to block and/or screen. Fibers instruction will include but not limited to ceramic and/or reed basket construction. Within this class the students will have a wide variety of tools, techniques and history all associated with printmaking and fibers. Along with basic techniques students will be involved in discovering the cultural and historical applications of printmaking and fibers arts. Students will have knowledge of master artists and artworks.

Art Studio 12 (718)

<u>Grades Offered:</u>	12 ^a	<u>Credit:</u>	1
<u>Recommended Grade:</u>	12 ^a	<u>Weight:</u>	1.0
<u>Prerequisite:</u>	Teacher Approval & must have at least a “B” average in a previous art Class.		
<u>Periods/cycle:</u>	6		

Students in this class have an advanced interest in art and are investigating possible careers in art. Emphasis will be on the production of 2D and 3D portfolio pieces and experimentation in a range of media, clay, glass fusing, drawing, painting, design, sculpture, ceramic, basketry, wood, candles, tile work, silk marbling, paper marbling, sandblasting, VFW-Patriotic art & News Item Header contests and flex projects. The students will work in a studio like setting, working on a set number of required pieces of art and also working on their own self-interested area(s) of art. Students going onto a college or art school will have a chance to make a portfolio for presentation.

*Student in the elective art classes will help with the prom.

*Students in all classes will participate in various public art contests throughout the school year.

*Students will participate in the end of the year art show.

Fibers and Printmaking II (719)

<u>Grades Offered:</u>	10 ^a , 11 ^a , 12 ^a	<u>Credit:</u>	1
<u>Recommended Grade:</u>		<u>Weight:</u>	1.0
<u>Prerequisite:</u>	2 prior art classes with a “B” average or better		
<u>Periods/cycle:</u>	6		

Standards for the Visual Arts and elements and principals of design will be explored. Fibers processes explored but not limited to historical fiber processes, bead weaving techniques, dying(batik), 4 harness weaving and basketry. Within printmaking they will explore silkscreen, etching and intaglio prints. Within this class the students will have a wide variety of tools, techniques and history all associated with printmaking fibers. Along with basic techniques students will be involved in discovering the cultural and historical applications of printmaking and fiber arts. Students will have knowledge of master artists such as Durer, Holbein, Hokusai, Picasso, Stella, Oldenburg and will be exposed to local artists and printmakers.

Business Courses

Accounting I (105)

<u>Grades Offered:</u>	10 ^a -12th	<u>Credit:</u>	1
<u>Recommended Grade:</u>	10th	<u>Weight:</u>	1.0
<u>Prerequisite:</u>	None		

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Periods/cycle: 6

This course provides good basic accounting knowledge for (1) the student wishing to enter college and pursue accounting, marketing, or management as a profession and (2) the student desiring entry-level office employment. Students will learn to design an accounting system from scratch and keep the financial records of a business through a complete accounting cycle for businesses organized as a sole proprietorship.

Accounting II (110)

Grades Offered: 11th-12th

Credit: 1

Recommended Grade: 11th

Weight: 1.0

Prerequisite: Accounting I

Periods/cycle: 6

This second year course is designed to enhance the career-oriented student who will enter college as a business major or someone seeking entry-level work as an accounting assistant. Students will learn accounting for a corporation through a complete accounting cycle. Special areas such as plant assets and depreciation, accounts receivable and un-collectible accounts, accruals and deferrals, control systems, tax returns for business and personal use will be covered.

Business & Consumer Law (115)

Grades Offered: 10th-12th

Credit: 1

Recommended Grade: 10th

Weight: 1.0

Prerequisite: None

Periods/cycle: 3

Students will apply legal concepts to business and personal questions involving criminal and civil law. They will become more aware of their rights and responsibilities as a minor and an adult, student and school, parent and child, consumer, plaintiff and defendant. Court cases are discussed for a variety of topics and shows students how court procedures are developed for both criminal and civil cases. Field trip to Northumberland County courthouse exposes students to actual court proceedings.

Business Courses (continued)

Marketing Concepts (118)

Grades Offered: 11th and 12th

Credit: 1

Recommended Grade: 11th and 12th

Weight: 1.0

Prerequisite: None

Periods/cycle: 3

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

This course introduces basic principles and strategies of marketing goods and services. Topics include promotion, pricing, and placement for products. Upon course completion, students should be able to apply marketing practices to business decision making.

Business and Personal Finance (120)

Grades Offered: 11^a – 12^a

Credit: 1

Recommended Grade: 11^a

Weight: 1.0

Prerequisite: None

Periods/cycle: 3

This course gives students an understanding of handling their money. They will learn how to do the following real-life situations: choose a career and go on an interview, write a check and keep track of their spending, create a budget, shop around for the best prices on products, save and/or invest money, and buy a house. They will also learn what a credit card is and how to get and use one, the differences between buying and renting a house, why you pay taxes and how you pay them, and why you need insurance and how to get it. This course will also give the students a basic understanding of starting a business.

Computer Courses

Computer Applications (132)

Grades Offered: 9^a

Credit: .5

Recommended Grade: 9^a

Weight: 1.0

Prerequisite: None

Periods/cycle: 3

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

This course is designed to teach students how to use a computer as a business and personal tool through the use of applications software. Students will learn the techniques and receive training of applications used in many businesses today. Appropriate software for database management, word processing, spreadsheets, and graphics will be used. Students will be introduced to other applications of technology as well as use the Internet for information acquisition.

Computer Web Design (175)

Grades Offered: 10th-12th

Credit: .5

Recommended Grade: 10th

Weight: 1.0

Prerequisite: Algebra 1

Periods/cycle: 3

This course is designed to introduce students to various skills, methods, and techniques related to basic web design. Additional topics include: Computing, Information Acquisition, and various Web 2.0 platforms.

Students will be required to utilize a number of learned web design skills as well as real-life aptitudes such as reading, writing, problem solving, attention to detail, work ethic, follow through, and communication skills. The main focus of this class will be production, design and composition of pages. Work will be completed individually and in small group as students explore different software platforms.

Desktop Publishing (185)

Grades Offered: 11th-12th

Credit: .5

Recommended Grade: 11th

Weight: 1.0

Prerequisite: none

Periods/cycle: 3

This course is a business course designed to allow students to develop proficiency in using desktop publishing software (Adobe Illustrator, Adobe Photoshop and various websites) to create a variety of printed publications for personal and professional use. Students will incorporate journalistic principles in design and layout of print and web publications including integration of text and graphics and use hardware and software to develop and create quality materials for business/personal related tasks. Students will incorporate the process of analyzing information and audience and choosing the appropriate visual signals to communicate the desired message effectively.

English Courses

English 9 (209)

Grades Offered: 9th

Credit: 2.0

Recommended Grade: 9th

Weight: 1.0

Prerequisite: None

Periods/cycle: 12

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Ninth-grade English is a two-period, four-semester course which focuses on the written and spoken word as both powerful tools for shaping their future and the building blocks for communicating successfully. Within this premise, students work extensively with words: journals, discussion of famous quotations, vocabulary, and student readings are a necessary part of the course's daily work schedule. Classes will also engage in weekly vocabulary lessons, selected grammar/usage exercises, and literary works from various genres and time periods. Students will generate analytical and creative works, which correspond to the literature we will read.

English 10 (210)

Grades Offered: 10^a

Credit: 1

Recommended Grade: 10^a

Weight: 1.0

Prerequisite: English 9

Periods/cycle: 6

Tenth grade English includes the study of short stories, poems, dramas, and novels of America and Britain, with some literary works of other countries, with an emphasis on drama.

The core textbook is Prentice Hall Literature, Timeless Voices, and Timeless Themes (Platinum Level). This text contains Antigone by Sophocles and Julius Caesar by William Shakespeare, which are recommended for the curriculum.

The textbook Question and Form in Literature contains two requirements, 12 Angry Men by Reginald Rose and Our Town by Thornton Wilder.

Students must present an informative speech and persuasive speech during the year, one of which must be a PowerPoint presentation.

Vocabulary work is taken from the literature and is quizzed on a periodic basis. Other vocabulary lists are assigned weekly and tested.

A variety of compositions are assigned, including summaries of dramatic acts and novel sections, journal responses, and poem analyses. A short research paper is assigned in the spring.

Two of the following selections can be assigned for independent reading, with teacher preference: Fahrenheit 451 by Ray Bradbury, Of Mice and Men by John Steinbeck, Finding Forrester by James Ellison, A Doll's House or An Enemy of the People by Isben, and/or The Maltese Falcon by Dashiell Hammet.

English Courses (continued)

College English 11 (211)

Grades Offered: 11^a

Credit: 1

Recommended Grade: 11^a

Weight: 1.0

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Prerequisite: English 10
Periods/cycle: 6

The 11th Grade American Literature course houses grammar, reading, and writing. It offers a historical survey of the development of American Literature from the colonial period through the 21st century. The 11th Grade American Literature course houses grammar, reading, and writing. It advances the student in writing and editing skills for informative, persuasive, and narrative papers, and poetry and free writing as well. The reading portion of the course is designed to cover the different aspects of literature: poetry, short stories, novels, and drama.

College English 12 (212)

Grades Offered: 12th Credit: 1
Recommended Grade: 12th Weight: 1.0
Prerequisite: College English 11
Periods/cycle: 6

College English 12 is a concentrated study of British Literature from its beginnings to the present, addressing different aspects of literature including poetry, essays, short stories, novels, and drama. The course encompasses reading comprehension and interpretation, vocabulary development, grammar in practice, writing skills, and speaking/presentation skills. It advances the student in writing and editing skills for informative, persuasive, narrative, and research-based writing. The course curriculum has been designed to address the Common Core Standards, Keystone Exams, and the PDE Academic Standards for Reading, Writing, Speaking and Listening.

Honors English 10 (214)

Grades Offered: 10th Credit: 1
Recommended Grade: 10th Weight: 1.04
Prerequisite: Teacher Approval
Periods/cycle: 6

Tenth grade English includes the study of short stories, poems, dramas, and novels of America and Britain, with some literary works of other countries, with an emphasis on drama. The honors curriculum is more demanding in that a deeper understanding of Literature is expected in students' essay responses and compositions.

The core textbook is Prentice Hall Literature, Timeless Voices, and Timeless Themes (Platinum Level). This text contains Antigone by Sophocles and Julius Caesar by William Shakespeare, which are recommended for the Curriculum.

English Courses (continued)

The textbook Question and Form in Literature contains two requirements, 12 Angry Men by Reginald Rose and Our Town by Thornton Wilder.

Students must present an informative speech and persuasive speech during the year, one of which must be a PowerPoint presentation.

Vocabulary work is taken from the literature and is quizzed on a periodic basis. Other vocabulary lists are assigned weekly and tested.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

A variety of compositions are assigned, including summaries of dramatic acts and novel sections, journal responses, and poem analyses. A short research paper is assigned in the spring.

The following, novel selections will be assigned for independent reading, with teacher preference: A Tale of Two Cities by Charles Dickens, and/or Flowers for Algernon by Daniel Keys

Honors English 11 (215)

Grades Offered: 11th

Credit: 1

Recommended Grade: 11th

Weight: 1.06

Prerequisite: Teacher Approval

Periods/cycle: 6

The 11th Grade American Literature course houses grammar, reading, and writing. It offers a historical survey of the development of American Literature from the colonial period through the 21st century. It advances the student in writing and editing skills for informative, persuasive, and narrative papers, and poetry and free writing as well, in order to prepare the student for collegiate level writing. The reading portion of the course is designed to cover the different aspects of literature: poetry, short stories, novels, and drama.

Honors English 12 (216)

Grades Offered: 12th

Credit: 1

Recommended Grade: 12th

Weight: 1.08

Prerequisite: Teacher Approval

Periods/cycle: 6

Honors English 12 is an advanced, concentrated study of British Literature from its beginnings to the present, addressing different aspects of literature including poetry, essays, short stories, novels, and drama. The honors course encompasses reading comprehension and interpretation, independent analysis, vocabulary development, grammar in practice, writing skills, and speaking/presentation skills at a challenging level. It advances the student in writing and editing skills for informative, persuasive, narrative, and research-based writing. The course curriculum has been designed to address the Common Core Standards, Keystone Exams, and the PDE Academic Standards for Reading, Writing, Speaking, Listening.

News Reporting (280)

Grades Offered: 10th-12th (9th grade with pre-approval)

Credit: 1

Recommended Grade: 10th

Weight: 1.0

Prerequisite: B average in English

Periods/cycle: 3/4/6

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

News Reporting is a broadcast journalism class in which students research, interview, develop, write, and report news stories as content for MCA Live news broadcast. The appointed editor(s) prepare the daily broadcast logs, while other student staff members perform daily tasks to prepare for the next day's news. Students may serve as a news anchor on the morning program, but are not required to anchor. Students must carry at least a "B" average in English in order to take this class.

Advanced Placement English Literature (1202)

Grades Offered: 11th – 12th

Credit: 1

Recommended Grade: 11th – 12th

Weight: 1.12

Prerequisite: Overall GPA of 90%, a 93% in content area and a member of the National Honor Society. Must have a 90% or above in English/ Composition courses.

Periods/cycle: 6

This rigorous and intensive reading and writing course will provide students with a learning experience equivalent to the introductory year of college literature and composition course work. Students will carefully read and critically analyze various genres of literature throughout the ages and diverse cultures, employing advanced reading strategies and examination of story elements, literary devices and their effectiveness. The course includes frequent opportunities for students to write and rewrite to understand (informal and exploratory writing), explain (expository and analytical writing) and evaluate (analytical and argumentative writing). The writing emphasis of the course will concentrate on expanding the student's vocabulary with weekly word lists and quizzes and improve sentence structure, logical organization, grammar, mechanics and usage. The course also emphasizes oral interpretation, public speaking and listening skills. It is geared to the student who desires to take the AP exam.

Foreign Languages - LATIN

Latin I (311)

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Grades Offered: 9^a 12^a

Credit: 1

Recommended Grade: 9^a

Weight: 1.0

Prerequisite: None

Periods/cycle: 6

Latin is the language of the ancient Roman civilization. The language is no longer spoken, but is the basis for modern languages such as Spanish, Portuguese, French, Italian, and Romanian. Over seventy-five percent of English vocabulary is derived from Latin. In the past, the language has been reserved for the study of medieval scholars and was universally accepted as the language of academia. All of the founding fathers of the United States were products of a classical education and could both read and write Latin. Students who enroll and successfully complete the Latin I course will gain a rudimentary understanding of basic Latin grammar including Latin's inflected case system and common syntax. The students will also be introduced to English words derived from Latin vocabulary, Roman culture, Roman history, Roman mythology, as well as the influence of Latin on the modern legal and medical fields.

Latin II (312)

Grades Offered: 10^a 12^a

Credit: 1

Recommended Grade: 10^a

Weight: 1.0

Prerequisite: Latin I

Periods/cycle: 6

The Latin II course builds upon concepts acquired in the Latin I course. Student will obtain a deeper understanding of Latin grammar and syntax as they encounter more advanced and complex Latin sentences. This course has a greater focus on the process of translation in preparation to read actual Roman authors. Students will also continue their study of English derivatives, as well as Roman culture and history. Students will also study the composition of Latin words, focusing on the numerous inflections of Latin vocabulary. The linguistic influence of Latin on advanced terminology in the fields of law and medicine will also be presented. Culturally, the Latin II course is focused on Roman and imperialism and the success of the Roman army.

Latin III (313)

Grades Offered: 11^a 12^a

Credit: 1

Recommended Grade: 11^a

Weight: 1.02

Prerequisite: Latin II

Periods/cycle: 6

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

The goal of the Latin III course is to prepare students to eventually read accounts of Roman history written by Romans. Therefore, students will interact with authentic Roman primary sources. Students will review grammar basics and then be shown advanced grammatical constructions that occur only in Roman literature. The culmination of this course is students reading *Commentarii de Bello Gallico* (*Commentaries about the Gallic War*). This work was written by Caius Julius Caesar in the first century b.c.e. and chronicles the military successes of the famous general in modern day France. Students will begin to focus on the rhetorical devices and begin to draw connections between Roman history and the material covered in this work. The cultural focus of the Latin III course is the history of the late Roman Republic and the rise of the Roman Empire.

Latin IV (314)

Grades Offered: 12^a

Recommended Grade: 12^a

Prerequisite: Latin III

Periods/cycle: 6

Credit: 1

Weight: 1.04

The Latin IV course is the final course in the school district's Latin program. Students who enroll in the Latin IV course will experience and intensive study of the Latin language that focuses on translation proficiency and an understanding of the language and its syntax. Students will continue to read authentic Roman authors and will focus on Roman poetry. After exploring Roman prose in Latin III, students will translate challenging Latin poetry that requires a sound understanding of Latin grammar, syntax, and style. Students will eventually read one of the most important works ever produced by ancient Rome – *The Aeneid*. This epic poem was written in a style that parallels the *Iliad* and *Odyssey*, famous poems from ancient Greece. Students will also explore the cultural significance of the poem and its political agenda in the first century c.e. Students will also continue to study Latin vocabulary, English derivatives and linguistic influences on the fields of law and medicine.

Foreign Languages - SPANISH

Spanish I (321)

Grades Offered: 9^a 12^a

Recommended Grade: 9^a

Credit: 1

Weight: 1.0

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Prerequisite: None
Periods/cycle: 6

Spanish I is a novice level Spanish course. It is intended for students with no previous experience with the Spanish language. Students will be introduced to pronunciation, vocabulary and simple conversation in the target language. As students gain grammar knowledge and vocabulary increased, reading, writing, listening and speaking skills will develop. Basic Hispanic culture, history and geography will be explored and discussed.

Spanish II (322)

Grades Offered: 10^a 12^a Credit: 1
Recommended Grade: 10^a Weight: 1.0
Prerequisite: Spanish I
Periods/cycle: 6

Spanish II is a beginner-intermediate level Spanish course. This course is designed for students who have completed Spanish I. Pronunciation activities and listening activities will be used to build upon previously acquired Spanish knowledge. Communication skills, grammar knowledge and vocabulary are intended to improve through oral and written exercises and activities. Hispanic culture will be explored through authentic readings.

Spanish III (323)

Grades Offered: 11^a 12^a Credit: 1
Recommended Grade: 11^a Weight: 1.02
Prerequisite: Spanish II
Periods/cycle: 6

Through this course, students will continue to develop skills in speaking, listening, and reading and writing Spanish. At this level, there is increased emphasis on vocabulary development, oral proficiency, written expression in a variety of tenses and expansion of knowledge of the culture of Spanish-speaking peoples. Students gain knowledge and understanding of other cultures throughout the curriculum, as well as making connections with a variety of disciplines.

Spanish IV (324)

Grades Offered: 12^a Credit: 1
Recommended Grade: 12^a Weight: 1.04
Prerequisite: Spanish III
Periods/cycle: 6

Throughout this course, students will continue to develop skills in speaking, listening, and reading and writing Spanish. At this level, there is increased competence and self-confidence in language usage and development. Students communicate more idiomatically in Spanish while using more complex structures to gain knowledge and understanding of their own culture and other cultures, acquire information that connects with other disciplines, develop insight into the relationship between language and culture and build a life-long interest in acquiring maintaining proficiency in Spanish.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Mathematics Courses

Essentials of Mathematics (406)

Grades Offered: 11th

Credit: .5

Recommended Grade: 11th

Weight: 1.0

Prerequisite: None

Periods/cycle: 3

This course, Essentials of Mathematics, is designed to prepare eleventh grade students for the state mandated PSSA, as well as review basic math concepts that all students need to be familiar with. The course will focus on the review of a wide variety of topics in all areas of mathematics, including algebra, geometry, and number sense. The course also serves as an introduction to other areas of elective mathematics, such as probability, statistics, trigonometry and calculus. The main focus of the class is to familiarize students with material eligible to be placed on the PSSA and therefore an emphasis on test taking skills is also incorporated.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Students will be exposed to PSSA type questions, as they broaden and deepen their knowledge in the mentioned areas. Students will participate in various sample multiple-choice formatted questions, as well as open-ended questions similar to those in the statewide test. Scoring of the PSSAs will also be addressed in class.

Algebra I (410)

Grades Offered: 8th – 12th

Credit: 1

Recommended Grade: 9th

Weight: 1.0

Prerequisite: None

Periods/cycle: 6

Algebra I includes the introduction of variables, constants, expressions, equations, and functions. The language of numbers is examined. Topics include solving equations and inequalities, simplifying expressions, understanding order of operations, performing operations with positive and negative numbers, exploring polynomials, working with exponents, factoring, graphing (linear equations & inequalities), working with radicals and rational expressions, and expanding arithmetic knowledge. This class is a prerequisite for all other math classes in the math sequence. Students will be required to complete Algebra I level keystone application problems with the goal of passing the Keystone Exams.

Advanced Algebra I (414)

Grades Offered: 9th-12th

Credit: 1

Recommended Grade: 9th

Weight: 1.0

Prerequisite: 90% overall average in 8th Grade Math from the previous year

Periods/cycle: 6

Advanced Algebra I will cover the same topics as Algebra I, but in a more in depth and faster pace. This is a challenging course meant for students who have successfully completed 8th grade Math with at least a 93% overall average.

Algebra II (412)

Grades Offered: 10th-12th

Credit: 1

Recommended Grade: 10th

Weight: 1.0

Prerequisite: Algebra I/ Geometry

Periods/cycle: 6

Algebra II is a course designed to prepare a student for further study in mathematics. Topics that were studied in Algebra I are reviewed and extended such as graphing, fractions, solving equations, and inequalities operations with polynomials and rational expressions. The new concepts studied in Algebra II include matrices, complex numbers, the quadratic formula, systems of equations, and absolute equations and inequalities.

Advanced Algebra II (413)

Grades Offered: 10th-12th

Credit: 1

Recommended Grade: 10th

Weight: 1.04

Prerequisite: 90% overall average in Algebra I from the previous year

Periods/cycle: 6

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

The content of Advanced Algebra II is organized around families of functions including linear, quadratic, exponential, logarithmic, radical, and rational functions. More content will be covered as opposed to a regular Algebra II course as this course is designed to provide the necessary foundation for the successful study of higher mathematics such as Calculus and AP Calculus.

Calculus (415)

<u>Grades Offered:</u>	11 th & 12 th	<u>Credit:</u>	1
<u>Recommended Grade:</u>	12 th	<u>Weight:</u>	1.08
<u>Prerequisite:</u>	Trigonometry/Analytical Geometry		
<u>Periods/cycle:</u>	6		

Calculus is the study of real valued functions in relationship to derivatives and integration. Major topics are: continuity, limits at a point and at infinity; derivative and integral rules for polynomial, rational, trigonometric, logarithmic, and exponential functions; applications to the first derivative including maximum and minimum word problems. Tangent and normal lines, linear acceleration, etc; applications to integration including falling body, area under curves, differential equations, etc. The prerequisite to this course is Trigonometry and Pre-Calculus.

College Algebra (430)

<u>Grades Offered:</u>	9 th – 12 th	<u>Credit:</u>	1
<u>Recommended Grade:</u>	11 th – 12 th	<u>Weight:</u>	1.04
<u>Prerequisite:</u>	Algebra II		
<u>Periods/cycle:</u>	6		

This course involves problem solving of negative exponents and fractional exponents. Students will study functions among which are: polynomials, rational, exponential, and logarithmic. Students will be able to use the appropriate formulas to solve a variety of sequence and skills problems including synthetic division, arithmetic and geometric progression. Relationships between and among systems of equations and inequalities will be discussed.

Geometry (432)

<u>Grades Offered:</u>	9 th – 12 th	<u>Credit:</u>	1
<u>Recommended Grade:</u>	10 th	<u>Weight:</u>	1.0
<u>Prerequisite:</u>	Algebra I		
<u>Periods/cycle:</u>	6		

Our course in geometry begins with an introduction to basic symbols and terms associated with the subject matter. Postulates and theorems are developed as a means of developing the concept of congruent and similar triangles. Quadrilaterals and circles are also examined. Right triangles are studied extensively, including an introduction to Trigonometry. Other topics include transformations, symmetry, and construction.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Advanced Geometry (433)

Grades Offered: 9th – 12th

Credit: 1

Recommended Grade: 10th

Weight: 1.0

Prerequisite: Algebra I

Periods/cycle: 6

Advanced Geometry includes the exploration of two dimensional and three-dimensional geometric concepts found in most Geometry courses such as perimeter, area, distance, surface area, and volume. Students will use formulas, theorems, and proof writing to solve problems. Advanced topics include Geometry in the coordinate plane, points of concurrence, and the golden ratio. Non-Euclidean geometries such as the study of shapes drawn on spheres will also be studied. Students will use geometric probability and basic trigonometric functions to solve algebra-based problems that are not limited to rational number solutions. The course exposes students to a variety of concepts, ideas, and problem solving strategies developed and extended through class discussion, compass and straight edge constructions, and interactive exploration using technology.

Topics in Math (451)

Grades Offered: 10th -12th

Credit: 1

Recommended Grade: 11th

Weight: 1.0

Prerequisite: Algebra I

Periods/cycle: 6

This course provides a general survey of mathematical topics that are useful in our contemporary world in interesting, enjoyable, and meaningful ways. The primary goals of this course are to (1) help students acquire and apply principles of fundamental mathematics, (2) use mathematics to solve authentic problems in everyday life that may be encountered in college, career, and life, and (3) to enable students to develop problem solving skills while fostering critical thinking.

Trigonometry/Analytical Geometry (450)

Grades Offered: 10th– 12th

Credit: 1

Recommended Grade: 11th

Weight: 1.06

Prerequisite: Algebra II

Periods/cycle: 6

This course involves the study of size and measurement of sides, angles and areas of triangles. Some of the methods to be explored are Pythagorean Theorem, Study of Sine, Cosine, and Tangent Functions and Heron's Formula.

Probability and Statistics (455)

Grades Offered: 10th – 12th

Credit: 1

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Recommended Grade: 12th Weight: 1.04
Prerequisite: Algebra II
Periods/cycle: 6

Students will be introduced to the basic concepts and goals of statistics. They will learn various ways to collect and describe data for the purpose of writing summaries, forming conclusions, and making decisions. Students will learn to determine the probability that an event will occur, including conditional probabilities using the fundamental counting rule, multiplication rule and addition rule. Students will learn to create and use probability distributions using shape, center, and variability to make informed decisions. Students will learn how to recognize the normal curve and how to convert to a standard normal curve. This will include using sampling distributions and the central limit theorem as well as the normal approximations to binomial distributions. Additional topics may include hypothesis testing with one or two samples, correlation, linear regressions and multiple regressions.

Advanced Placement Calculus AB (1203)

Grades Offered: 11th –12th Credit: 1.0
Recommended Grade: 11th –12th Weight: 1.12
Prerequisite: Overall GPA of 90%, a 93% in content area and a member of the National Honor Society. Must have a 90% or above in Mathematics courses.

Periods/cycle: 6

AP Calculus AB is the equivalent of a first semester college calculus course. It covers all the topics necessary for taking the AP Calculus examination such as geometry, functions, limits, continuity, the derivative and its applications and the integral and its applications. Students may receive college credit by taking AP Calculus Exam.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Music Courses

Senior Band (725)

Grades Offered: 9th-12th

Credit: 1

Recommended Grade: 9th

Weight: 1.0

Prerequisite: None

Periods/cycle: 6

This course is offered as an elective to all students in grades 8-12. Students who have any interest in playing a musical instrument are encouraged to participate. Junior high band is not a mandatory prerequisite. Senior High Band offers a variety of ensemble opportunities for instrumentalists including the marching football and competitive bands, symphonic band, jazz ensemble, pep band, and other small group ensembles. Students will continue to develop their instrumental technique through lessons and ensemble rehearsal. This class will expand the student's musical vocabulary and repertoire, by learning a variety of musical pieces to be performed in the public setting. The class meets daily and students attend either three, four, or six days, depending on their course selections. Lessons are provided on a rotating basis, once per six-day cycle. Grading is based on performance, attendance, conduct, and written exams.

Senior High Chorus (735)

Grades Offered: 9th-12th

Credit: .33

Recommended Grade: 9th

Weight: 1.0

Prerequisite: Teacher permission/ Audition

Periods/cycle: 2

This course is offered as an elective to all students in grades 9-12. Students who have any interest in singing or who play piano are encouraged to participate. It is not required that any student read music, however it is helpful. Junior high chorus it is not a mandatory prerequisite. Students will continue developing their vocal technique through exercises and warm-ups. This class will expand the student's musical vocabulary and repertoire, by learning the variety of musical pieces including English and foreign languages to perform in the public setting.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Physical Education and Health Courses

Health 9 (809)

Grades Offered: 9th

Credit: .33

Recommended Grade: 9th

Weight: 1.0

Prerequisite: None

Periods/cycle: 2

This course is designed to provide students with health information in such a way that influences young people to change attitudes so that they take positive action about their health. Major topics covered throughout the year will be stress, first aid, tobacco and alcohol abuse, physical fitness, nutrition, infectious disease, skin cancer and tanning, and personal hygiene.

Health 10 (813)

Grades Offered: 10th

Credit: .33

Recommended Grade: 10th

Weight: 1.0

Prerequisite: none

Periods/cycle: 2

This course involves a more in depth study of health education with a focus on the physical, mental, and emotional aspects of health. Aspects of instruction will include small group activities, guest speakers, journals and a group presentation.

Physical Education 9-12 (850)

Grades Offered: 9th-12th

Credit: .33

Recommended Grade: 9th-12th

Weight: 1.0

Prerequisite: none

Periods/cycle: 2

The aims of the Mount Carmel Area High School physical education department are to provide a medium for regular physical activities throughout life and to aid in the physical, social, and emotional development of each student. This is accomplished through participation in physical activities, sports, and games.

Adaptive Physical Education 9-12 (858)

Grades Offered: 9th-12th

Credit: .33

Recommended Grade: 9th-12th

Weight: 1.0

Prerequisite: teacher recommendation

Periods/cycle: 2

Adaptive physical education is for any student who is physically or emotionally handicapped. The course meets the needs of those who need specific instruction in a suitable environment for their level of ability.

Activities such as swimming, basketball, tennis, weightlifting, Lacrosse, Frisbee, and Nerf football have been incorporated.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Science Courses

Ecology (509)

Grades Offered: 9th-11th

Credit: 1

Recommended Grade: 9th

Weight: 1

Prerequisite: Teacher recommendation

Periods/Cycle: 6

Ecology is a freshman level Biology class that is available for 9th graders. The class sets students on a pace so that they fulfill their requirements for the Biology Keystone within two academic year. The course covers the Ecology and Evolution content area of the Biology Keystone exam.

Biology (510)

Grades Offered: 9th-12th

Credit: 1

Recommended Grade: 9th

Weight: 1.0

Prerequisite: Cumulative 75% at end of 8th grade science
Teacher recommendation

Periods/cycle: 6

This course is designed to give an introduction to cell biology, genetics and ecology. Topics covered include: cell structure and function, nucleic acid function and structure, human genetics and interactions of organisms with their environment. Test format includes multiple choice and essay. Lab activities will be performed. Also, lab experiments will require written lab reports.

Honors Biology (511)

Grades Offered: 9th-11th

Credit: 1

Recommended Grade: 9th

Weight: 1

Prerequisite: Cumulative 85% or higher in 8th grade Science
Teacher recommendation

Periods/Cycle: 6

Honors Biology is a freshman level class that is available for 9th graders that held an 85% or higher average in 8th grade science. The class sets students on a faster pace so that they may fulfill their requirements for the Biology Keystone exam within one academic year. The course covers the content area of the entire Biology Keystone exam.

Biology II (512)

Grades Offered: 11th-12th

Credit: 1

Recommended Grade: 11th

Weight: 1.0

Prerequisite: Chemistry I

Periods/cycle: 6

Biology II is a course intended for individuals that are college bound, with intent to pursue a career in a biology related field, such as; microbiology, zoology, ecology, botany, and entomology... Students will do a vast amount of dissections on varying specimens while learning the specimen's anatomy. They will learn classifications and use comparative physiology to group the organisms in their correct classifications. Students will also investigate each organism's niche and how their role is important. Students will spend time learning the physiology of plants and plant identification.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Earth and Space Science (515)

Grades Offered: 10th-12th

Credit: 1

Recommended Grade: 10th

Weight: 1.0

Prerequisite: none

Periods/cycle: 6

The first half of this course deals with the constructive and deconstructive forces of the Earth. We begin with mineral and rock identification and move into volcanoes, earthquakes, and the effects of weathering and climate. The second half of the year is dedicated to the study of space, primarily our solar system. This course includes lecture, small and large group work, papers, and presentations.

Chemistry I (520)

Grades Offered: 10th -12th

Credit: 1

Recommended Grade: 10th

Weight: 1.04

Prerequisite: Biology I/ Algebra I

Periods/cycle: 6

Chemistry I is an introduction to our understanding of the atomic and molecular nature of matter. The use of mathematics (Algebra) to explain and predict aspects of the physical world is a central concept, as is the development of a systematic approach to solve complex problems. Topics include: classifications of matter (elements and compounds), chemical reactions, acids and bases, gases and gas laws, and others.

Chemistry II (521)

Grades Offered: 11th -12th

Credit: 1

Recommended Grade: 11th

Weight: 1.08

Prerequisite: Chemistry I

Periods/cycle: 6

Advanced topics in chemistry, intended for students interested in majoring in science-related fields. Oxidation and reduction, the quantum mechanical description of the atom, thermochemistry, and advanced acid/base equilibrium are typical topics. This course is an excellent way to prepare for college chemistry.

Environmental Science (525)

Grades Offered: 9th-12th

Credit: 1

Recommended Grade: 9th-12th

Weight: 1.0

Prerequisite: General Biology or Biology (less than 70%)

Periods/cycle: 6

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Environmental Science is a course intended for everyone. Students will learn about environmental health, laws, new energy, and renewable and nonrenewable resources. There will be guest speakers and a number of outdoor labs. Labs will teach students how to study the environment from a scientist's perspective. They will see how an individual can impact the environment and will learn how new innovative studies could make oil obsolete.

Advanced Physics (530)

Grades Offered: 11th –12th Credit: 1
Recommended Grade: 12th Weight: 1.08
Prerequisite: Overall GPA of 90%, a 93% in content area and a member of the National Honor Society. Must have a 90% or above in the Sciences.
Periods/cycle: 6

The use of mathematics (algebra, geometry, and trigonometry) is used to describe, explain, and predict the behavior of physical objects and systems. Central topics include: forces and motion (kinematics), momentum, energy, and electricity, simple machines, waves, light and optics, and electricity and electrical circuits. Recommended for students pursuing further education in science.

Anatomy and Physiology (535)

Grades Offered: 11th –12th Credit: 1
Recommended Grade: 11th –12th Weight: 1.08
Prerequisite: Chemistry I
Periods/cycle: 6

This course involves the study of the human body from cellular to systematic levels. Major topics covered throughout the year will be: general review of biochemistry, tissues, anatomical position and directional terms, skeletal systems, the muscular system, the digestive system, and the circulatory system. Each exam will combine written tests involving short answer or practical tests specifically focusing on the identification of bone structures, muscles, organs, etc. Lab experiments will also require a written lab report. Students must have taken Chemistry I and passed with a 75% or higher.

Advanced Placement Biology (1201)

Grades Offered: 11th –12th Credit: 1.33
Recommended Grade: 11th –12th Weight: 1.12
Prerequisite: Overall GPA of 90%, a 93% in content area and a member of the National Honor Society. Must have a 90% or above in the Sciences.
Periods/cycle: 6

The course is designed to be the equivalent of a 2 semester college introductory biology course. Topics to be covered include chemistry of life, cell structure and function, heredity and evolution, organisms and populations, structure and functions of animals, plants and ecology. A double lab period will be given which require written lab reports. Students will qualify for the AP exam.

Advanced Placement Chemistry (1204)

Grades Offered: 11th – 12th Credit: 1.33
Recommended Grade: 11th – 12th Weight: 1.12

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Prerequisite: Overall GPA of 90%, a 93% in content area and a member of the National Honor Society. Must have a 90% or above in the sciences. Must have completed Biology I and Chemistry I with a 93% or higher.

Periods/Cycle: 6

The AP Chemistry class is designed to be the equivalent of a first year college chemistry course. This course is a 6 day course with two additional classes for lab work. Students must successfully pass Chemistry with a B or better. However, this course is designed for high school students who have high levels of commitment, motivation and academic maturity. The following subject matter will be covered during the year: structure of matter, states of matter, reactions (types, stoichiometry, equilibrium, kinetics, and thermodynamics), and descriptive chemistry (chemical reactivity, periodicity, and organic chemistry).

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Social Studies Courses

Civics (635)

Grades Offered: 9th

Credit: 1

Recommended Grade: 9th

Weight: 1.0

Prerequisite: None

Periods/cycle: 6

Civics is the study of citizenship and government. Students will explore our nation's history as it relates to the development of our government. In addition, students will learn about the purpose and functions of government at the national, state, and local levels. Furthermore, students will learn about their rights, responsibilities, and roles as American citizens.

Current Events (610)

Grades Offered: 10th – 12th

Credit: 1

Recommended Grade: 10th & 11th

Weight: 1.0

Prerequisite: None

Periods/cycle: 6

Students should be able to explain how our local, state, and federal governments work, and the necessity of each in our society. Students should also have a firm understanding of how our government was originated and founded, including knowing the main figureheads involved in establishing our government as well as the inter-workings of the Declaration of Independence, the Articles of Confederation, and the Constitution.

Students should comprehend the various types of governments that are found throughout the world and the impact each has on society. Finally, each student should comprehend what role they have in our local, state, and federal governments, and the importance of their involvement on all three levels.

Modern American History (656)

Grades Offered: 9th

Recommended Grade: 9th

Prerequisite: None

Periods/ cycle: 6

Focus is on the time period from the end of WWII(1945) until the present, covering topics such as the Cold War, Korean War, Vietnam War and the Persian Gulf War. The 50's, 60's, and the influence of rock and roll music, as well as the Civil Rights Movement and September 11th will be covered. This class will look at technology and inventions, and discuss America's role in the 21st Century.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Social Studies Courses (continued)

Psychology (626)

Grades Offered: 12th

Credit: 1

Recommended Grade: 12^a

Weight: 1.0

Prerequisite: None

Periods/cycle: 6

Psychology and You is an introductory psychology course designed to give students a look at the complexity of everyday human behavior. The course will illustrate topics such as physiological states, perception, cognition, motivation, memory, learned behavior, development, social groups, emotions, and personality disturbances among others. From this introduction to psychology the student will gain insights, practical information and an objective test of their belief system. The results of this course will act as a beginning in the study of human behavior to understand how people of all age groups handle everyday situations. The results of this course will also give the student a good idea why so much training is necessary to become a professional in the field of psychology and the many, many hours that are necessary to gather insight into the problems people experience.

Principals of Democracy (630)

Grades Offered: 12^a

Credit: 1

Recommended Grade: 12^a

Weight: 1.0

Prerequisite: None

Periods/cycle: 6

Principles of Democracy is a four semester course that stresses the importance of democracy in each student's life. The course is intended to prepare students for postgraduate life as adults in American society. Major course topics include the roots of American democracy, the three branches of government, elections and voting, civil rights and liberties, as well as the privileges and responsibilities of citizenship. By the end of the course, students will have a better understanding of United States government and will become more informed citizens.

U.S. History II (655)

Grades Offered: 11^a

Credit: 1

Recommended Grade: 11^a

Weight: 1.0

Prerequisite: None

Periods/cycle: 6

United States History II is a course designed to focus upon the exploration and examination of American History from the Civil War Period/ Reconstruction Era to the present day.

Students will demonstrate an understanding of the figures, events, places, and challenges that have forged and shaped our nation during the Reconstruction Era and into the 20th century.

They will evaluate and form conclusions as to the role that Industrialization, Imperialism and Progressivism played in the development and shaping of the political, economic, and socio-cultural landscape in our nation's quest towards achieving the status of being a world leader by the end of WWII.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

World History I (660)

Grades Offered: 10th

Credit: 1.0

Recommended Grade: 10th

Weight: 1.0

Prerequisite: None

Periods/cycle: 6

World History focuses on studying both modern and ancient cultures from around the world. Students will explore life in the ancient civilizations of Egypt, Mesopotamia, India, China, Greece, Rome and the Americas. Upon completing the subject matter from the Ancient world, students will examine topics including the Middle Age Europe, the Renaissance, the Byzantine Empire, the Muslim World, and the French Revolution. As part of the curriculum students will consistently engage in deep thinking exercises to compare modern day issues to events from the past.

Advanced Placement European History (1200)

Grades Offered: 11th –12th

Credit: 1.5

Recommended Grade: 11th –12th

Weight: 1.12

Prerequisite: Overall GPA of 90%, a 93% in content area and a member of the National Honor Society. Must have a 90% or above in Social Studies courses.

Periods/cycle: 6

The study of European history since 1450 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. Without this knowledge, we would lack the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. In addition to providing a basic narrative of events and movements, the goals of the AP program in European History are to develop (a) an understanding of some of the principal themes in modern European History, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Technology Courses

Industrial Arts 9 (906)

Grades Offered: 9th

Credit: .25

Recommended Grade: 9th

Weight: 1.0

Prerequisite: None

Periods/cycle: 3 – one semester

Technology Education 9 is a required introductory course that all ninth grade students must complete. This course is designed to introduce students to basic woodworking tools and techniques. Students will be learning about and using woodworking hand tools, power hand tools and a few of the major woodworking machines. Students will also be learning proper safety for working in the wood shop. Students will also be using the STEM Model to design, construct, and test a roller coaster.

Technology Education I (910)

Grades Offered: 11th and 12th

Credit: 1.0

Recommended Grade: 11th

Weight: 1.0

Prerequisite: None

Periods/cycle: 6

Technology Education is a course where students will have a chance to build upon foundation they received in Technology Education 9. This course is primarily for 11th-12th grade students. In Technology Education, students will receive instruction on all major woodworking equipment. Students will also study woodworking history, properties of different types of trees and wood, basic manufacturing concepts and basic drafting skills. Students will also be exposed to more advance techniques that they will need to complete various projects.

Technology Education II (911)

Grades Offered: 12

Credit: 1.0

Recommended Grade: 12

Weight: 1.0

Prerequisite: 910 and teacher approval

Periods/cycle: 6

Technology Education 2 is the most advance wood class. Primarily for seniors, and only if the student has successfully and safely completed Technology Education 1 and has been approved by the instructor. Students will learn advanced techniques in wood joinery, machine operation, wood steam bending, and mastery finishing processes. Students will have the opportunity to channel the knowledge they have received into a project that will show their exemplary skills.

Power, Energy and Transportation (920)

Grades Offered: 11th and 12th

Credit: 1.0

Recommended Grade: 11th and 12th

Weight: 1.0

Prerequisite: None

Periods/cycle: 6

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Power, Energy, and Transportation (PET) is a course to expose students to a wide variety of different technologies and processes. Students will receive instruction on traditional board drafting, basic woodworking, sheet metal construction, forging, metal lathe operations, and a series of transportation and energy challenges. This course is primarily for 11th and 12th grade students.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Additional Electives

Yearbook (270)

<u>Grades Offered:</u>	12	<u>Credit:</u>	.5
<u>Recommended Grade:</u>	12	<u>Weight:</u>	1.0
<u>Prerequisite:</u>	none		
<u>Periods/cycle:</u>	3		

Yearbook is an elective course that gives students marketable experience in print media publishing. This course solely works towards completion and selling of a large finished product. In class, students compose, construct, and edit all elements of computerized text layout, graphic art, and digital photography. Students work on many clerical operations, make announcements, maintain signs, and conduct student polls.

Developmental Studies (771-772)

<u>Grades Offered:</u>	9 th -12 th	<u>Credit:</u>	.33
<u>Recommended Grade:</u>	9 th	<u>Weight:</u>	1.0
<u>Prerequisite:</u>	Must be classified as a gifted student per state regulations		
<u>Periods/cycle:</u>	1-2/cycle		

Developmental Studies is a special education program available to qualifying students who desire to enrich and augment their educational experience. To enroll in the program, students need to successfully complete a testing process with the school psychologist. Once the student qualifies he or she will meet one to two days during the six-day school cycle in a small classroom.

Goal objectives are designed for the individual student, but may include community service, critical thinking, scientific problem solving, technology, reading materials, stock market game, and career research and exploration. The program also strives to implement its curriculum elements, which include citizenship, wellness and fitness, environment and ecology, arts and humanities, and career.

TV Studio (760)

<u>Grades Offered:</u>	9 th -12 th	<u>Credit:</u>	1
<u>Recommended Grade:</u>	9 th	<u>Weight:</u>	1.0
<u>Prerequisite:</u>	None		
<u>Periods/cycle:</u>	6		

Students will learn all tasks involved in the daily operations of a television broadcasting facility, including equipment operation, electronic news gathering, non-linear and linear editing, in-field remote production, videography, post production, analog-to-digital file conversion and

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

application. Regular tasks will require all students to become proficient in advanced applications within Final Cut Pro, Adobe Photoshop, Macromedia Dreamweaver, Avid DV Express, and Microsoft Works. The course begins with an emphasis on digital and film photography and includes practices in composition, as well as technical and craftsmanship skills. Students will also learn the application and interface of digital and analog hardware within the requirements of specific needs in video production. Students will be required to produce video content for a variety of programs including informational, educational, documentary and sports broadcasting.

SPECIAL EDUCATION

The following programs are available within the Mt. Carmel Area School District.

- A. - Elementary & Secondary Learning Support
- B. - Emotional Support
- C. - Social Worker Support
- D. - Speech/Language Support

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

The following programs are available to the district that are contracted through Central Susquehanna Intermediate Unit #16 or neighboring school districts.

- E. – Gifted Support
- F. - Life Skills Support
- G.- Multiple Disability Support
- H. – Autistic Support**

A. LEARNING SUPPORT

Our learning support programs provide an individualized educational program for students with learning disabilities or students who the team believe would benefit from such an environment. This program is designed to enhance the learning capabilities of those students who learn in different ways and at different rates. A student who qualifies for Learning Support is integrated into the regular education setting as much as he/she can manage. Placement into this program is based on individual needs.

The Learning Support Classroom:

- works at the student's instructional level;
- utilizes alternate methods of teaching;
- provides smaller classroom settings;
- uses strengths to lessen weaknesses;
- assists with transition into regular education;
- reteaches when necessary;
- sets realistic goals;
- encourages parent input;
- provides emotional support, if necessary;
- prepares for adult living and transition, and
- provides opportunities for community based training

B. EMOTIONAL SUPPORT

This program is designed for students who:

- have an inability to learn to build and maintain satisfactory interpersonal relationships;
- display inappropriate types of behavior or feelings under normal circumstances;
- experience general moods of depression or unhappiness;
- has a tendency to develop physical symptoms or fears associated with school, performance, social, and emotional issues.

C. SOCIAL WORKER SUPPORT

This service is provided to students to assist with attaining success in the school/community environment. Social Worker Support is designed to provide individual and

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

group activities which promotes positive self-esteem, develops appropriate behavior and fosters school achievement.

D. SPEECH / LANGUAGE SUPPORT

The speech and language programs serve students who have difficulty using and understanding language. Services are based on a student's individual needs. Services are provided in a group or individual setting. Therapy is used in cooperation with the student's teacher to enhance the student's learning capabilities.

E. GIFTED SUPPORT

The Mt Carmel Area School District's Gifted Programs are available to those students who qualify based on Pennsylvania Standards and Regulations and District criteria.

The Gifted Program:

- enhances creativity;
- provides opportunities for higher order/critical thinking skills;
- enriches student's regular education curriculum;
- individualizes a student's learning needs;
- further develops a student's strengths;
- provides opportunities to prepare students for adult living, and
- provides opportunities to become involved in the community.

F. LIFE SKILL SUPPORT

The Life Skill Support classroom is for students whose needs require special services and for students with moderate mental disabilities.

G. MULTIPLE DISABILITY SUPPORT

The Multiple Disability Support classroom is for students with severe to profound mental and/or physical disabilities whose needs require special services.

H. AUTISTIC SUPPORT

Vocational education is offered at the Northumberland County Area Vocational Technical School in Coal Township.

The Vocational school offers the following programs

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

AUTOMOTIVE BODY REPAIR
AUTOMOTIVE MECHANICS I & II
CARPENTRY
COMPUTER TECHNOLOGY
COOPERATIVE EDUCATION
COSMETOLOGY
ELECTRICAL CONSTRUCTION
FOOD MANAGEMENT, PRODUCTION AND SERVICE
HEALTH OCCUPATIONS CAREERS
OCCUPATIONAL CHILD CARE
PROTECTIVE SERVICES
WELDING/SHEET METAL FABRICATION
CAD: COMPUTER AIDED DRAFTING
HVAC: HEATING VENTILATION AND AIR CONDITIONING

Northumberland County Area Vocational Technical School Vocational Programs

AUTOMOTIVE BODY REPAIR:

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Length of Course: 3 Years

Description:

The Auto Body Repair course is designated for students preparing for employment or continued education in the field of Auto Body Repair. Instruction is given and practice provided to develop skills in welding, panel straightening and replacing, metal fabrication, filing, painting, frame straightening, and wheel alignment, enabling the student to be employed as a beginning mechanic in the Auto Body Repair Trade.

Through actual work experiences, the student will acquire good work habits, such as working with others, learning to be more responsible, by taking an active part in class organization, and management of time and materials similar to conditions found in the work place.

Specific Prerequisites:

The students should have a genuine desire to learn, to perform quality workmanship, and should possess some mechanical aptitude. Work shoes and blue work shirts and work pants are required to begin this course offering.

AUTOMOTIVE MECHANICS I AND II:

Length of Course: Automotive Mechanics I - 1 Year (First Year Students)
Automotive Mechanics II – 2 Years (Second and Third Year)

Description:

The Automotive Mechanics program provides the students with an entry level background in the skills and technology needed for a career in the Automotive Field. Specialized classroom and laboratory exercises are designated to provide instruction in the area of automotive shop safety, Pennsylvania State Inspection Certification Program, chassis maintenance, suspension systems, steering systems, four wheel alignment, tire and wheel service, hydraulic brake system, transmission and drive line service, preventative maintenance service, cooling system service, electrical systems, tune-up and emission service, electronics, fuel systems, and engine repair. Additional instruction is available in small engine service and welding. Students are taught to use technical and service manuals.

Specific Prerequisites:

Automotive Mechanics I is a prerequisite for Automotive Mechanics II.

Good eyesight, manual dexterity, physical stamina, mechanical ability, willingness to learn, blue work uniforms and shoes are required to begin the course.

Northumberland County Area Vocational Technical School Vocational Programs

CARPENTRY:

Length of Course: 3 Years

Description:

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

This course is intended for students who are interested in securing employment as Carpenters in the Construction Field. The course is designed to produce quality students with the training in all phases of the Building Construction Industry, such as residential structures, modular housing, commercial and industrial construction, residential renovation, and all components and their relationship to one another.

The course is intended to give the students an opportunity to:

1. Develop the necessary manipulative skills required in the area of Carpentry and Building Construction Trade
2. Acquire the essential supplement information directly concerned with the Carpentry Trade so that they will be able to exercise good judgement in carrying out all tasks involved in the Building Construction Industry.
3. Develop an appreciation of quality work, safety, and correct work habits and attitudes.

Specific Prerequisites:

Manual dexterity, mechanical aptitude, ability to visualize, and safety shoes are required.

COMPUTER TECHNOLOGY:

Length of Course: 3 Years

Description

The Computer Technology program offers students education and training in the use of various productivity software packages including word processing, database management, electronic spreadsheet, and presentation software. Additional training is provided in programming languages, networking, and the use of the Internet. Students may also learn how to build, maintain, and upgrade microcomputers along with the installation of software for use.

Students enrolled in the Computer Technology program can put those skills to use in the workplace or in the pursuit of higher education.

The course consists of theory periods, along with laboratory hands on sessions. The program is self paced so that each student progresses at his or her own pace throughout the course.

Specific Prerequisites:

A student enrolling in the Computer Technology course should possess mathematical ability, be able to read and understand manuals, reason logically, and pay attention to detail. Typing skills are desirable, but not required.

COOPERATIVE EDUCATION:

Length of Course: 1 Year

Description:

Cooperative Education is a method of career training that allows students to combine classroom instruction with On-The-Job-Training. This unique program integrates classroom study with planned, supervised, practical work experience. "Learning by Doing" is the key. By working

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

on an actual job in their field, students can better relate to “real world” employment. This type of training, helps produce competent individuals who can succeed in society.

Students will also earn a salary from the employer as they broaden their knowledge and increase skill areas.

This program is open to all students who have satisfactorily met the requirements for entrance into the Cooperative Education Program.

COSMETOLOGY:

Length of Course: 3 Years

Description:

The basic Cosmetology course is regulated by the State Board of Cosmetology and prepares the student who successfully completes the course to take the licensing exam at the end of their third year of study. Students who pass the exam, administered by the State Board, are awarded a License to practice Cosmetology in the State of Pennsylvania. Students will be taught the technical skills necessary, as well as the related theoretical knowledge required in the beauty field. Basic business related skills which correlate directly to running a business are incorporated into the course. The theory portion of the course contains a great deal of technical and science related information. Students should be prepared for the necessary home study required.

Specific Prerequisites:

Students should have an outgoing personality and a sincere desire to learn “people skills”. Good verbal, reading, and writing skills are important for the students to complete the course and to be successful in the field following graduation. Students will be required to wear a uniform, smock, and white shoes and will be required to purchase a cosmetology kit used for the three years in the program.

ELECTRICAL CONSTRUCTION:

Length of Course: 3 Years

Description:

The Electrical Construction program emphasizes basic electronics, motor controls and the manual skills needed to install and maintain wiring and electrical equipment in buildings.

Students develop skill in bending conduit, laying wire, motor controls, installing equipment and testing final installation.

Students also learn to design and install electronic heating systems, security systems, and interior lighting systems. Other topics covered include circuitry for fluorescent lighting systems, code requirements and design and complete wiring, lighting and electric heating installation for a complete home. AUTOCAD Drafting is also introduced and students get the opportunity to draw their electrical circuits on Computer Aided Drafting. Students are also trained on state of the art computer programmable controlled switch gear used in the industry today.

Specific Prerequisites:

Good physical stamina, manual dexterity, ability to work with others, enjoy working with mechanical and electrical equipment, basic mathematics, and work shoes are required.

FOOD MANAGEMENT, PRODUCTION AND SERVICE:

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

Length of Course: 3 Years

Description:

The student will learn/train practical work in various phases of food preparation and food delivery. The student will be versed in waiter/waitress training, menu planning, portion sizing, pricing and accounting, meat carving, soups, desserts, salads and sandwich preparation, vegetables and meat cookery, cake decorating, pastry, bread and rolls, Danish pastries, hors d'oeuvres, supervisory and management techniques. Practical experience is obtained daily in a full service public dining room operated at the school along with various catering experiences.

Specific Prerequisites:

The student must enjoy meeting people, working with food, able to withstand heat from ovens and equipment, good sense of taste and smell, able to smile and work under pressure, good health habits, white uniforms required for kitchen and black and white uniforms for dining room duty.

HEALTH OCCUPATIONS CAREERS:

Length of Course: 3 Years, but can be limited to 1 year or 2 years.

Description:

The student will prepare to obtain employment/post secondary education in the Health Care Field. This course will include: medical terminology, ethics, care of equipment, medical assisting-administrative and clinical, bedside nursing skills, anatomy and physiology, home health aide, human growth and development, and certification in first aid and CPR. Field trips and a (18) day affiliation at skilled and intermediate care facilities during the first year of course, as well as a (18) day clinical learning experience during the second and third year of course. Students will be eligible to apply for the Nurse Aide Certification test upon successful completion of their first year course of study, as required by the State of Pennsylvania.

Specific Prerequisites:

A profound interest in health care is essential. A dress code is required while in class, on affiliated and in clinical experiences. The dress code consists of a clean white uniform with blue coat and white shoes, name pin and a wristwatch with a second hand. Success will depend very much on the ability to get along with people. Good physical condition is a must due to exposure to illnesses.

OCCUPATIONAL CHILD CARE:

Length of Course: 3 Years

Description:

Students will be trained/educated to obtain employment in the Child Care Field. Students will learn child growth and development and care of children in the day care setting. Students will also learn first aid as well as CPR training. All aspects of a functional day care facility will be provided. After the first year of course study, students will receive clinical experiences in local facilities as well as on site programs.

MT CARMEL AREA HIGH SCHOOL

CURRICULUM PLANNING GUIDE

Specific Prerequisites:

A desire to provide exemplary childcare, the ability to work well with others, and good, physical stamina and attentiveness are required. A dress code will be required of a smock top in all situations of classroom and clinical experiences.

PROTECTIVE SERVICES:

Length of Course: 3 Years

Description:

The Protective Services program is intended to present a comprehensive public safety education to students in pursuing a career, voluntary service, or post secondary education in fire, emergency medical, law enforcement, or emergency management services. Since all area of public safety work together, and responsibilities often overlap career boundaries, the student will be expected to meet a minimum level of proficiency in all areas of the training program. Students are urged to enroll in academic courses such as Anatomy and Physiology, Biology, Chemistry, Algebra, and Physics.

Specific Prerequisites:

Students choosing this vocational program of study should have a serious interest in public safety. Individuals should be willing to take part in various classroom exercises including mock accidents, pre-planned, fictitious criminal investigations, and controlled fire exercises. Comprehensive study of the Pennsylvania Crimes and Vehicle Codes, Cardiopulmonary Resuscitation, Fire Code, and Occupational Safety and Health Administration (OSHA) rules and regulations are included in the program. Students should possess good verbal, reading, writing, communication, and mathematical skills to be successful in the program.

WELDING / SHEET METAL FABRICATION:

Length of Course: 3 Years

Description:

This course provides an opportunity for the student to obtain background knowledge and skills needed in Metal Fabrication and Welding that will enable the student to take his/her place in today's competitive workforce.

The Welding curriculum offers practical skills training in the set-up and operational techniques for: oxyfuel flame cutting and brazing, shielded metal-arc, mig, tig, air carbon-arc gouging, and plasma arc cutting. Welding skills are used in conjunction with practical skills projects produced in Metal Fabrication.

The Metal Fabrication curriculum offers practical skills training in: planning and layout in which a flat piece of sheet metal, plate or structural steel shape is formed into a finished product including blueprint reading, drafting, and pattern development. Fabrication involves the selection and use of hand power tool as well as various machines used for cutting and forming material. Assembly involves the connection of individual articles or parts that have been shaped or formed, to produce the finished product. Installation repair and maintenance involves overall working knowledge of the product and often requires connection skills used in the assembly phase.

Specific Prerequisites:

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

The student should possess physical stamina, manual dexterity, ability to work with others, ability to work with power tools and machines, mathematics knowledge, ability to complete quality work in a demanding occupational setting. Work shoes are required.

MT CARMEL AREA HIGH SCHOOL CURRICULUM PLANNING GUIDE

COMPUTER AIDED DRAFTING:

Length of Course:

Description:

HEATING VENTILATION and AIR CONDITIONING:

Length of Course:

Description: