

**MT. LEBANON  
HIGH SCHOOL**



**COURSE CATALOG  
2012- 2013**

### Compliance Statement

Mt. Lebanon School District does not discriminate on the basis of race, age, color, religion, sex, national origin, ancestry, or handicap or disability in the administration of any of its educational programs, services or activities, or with respect to employment. The District adheres to the nondiscrimination provisions of Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act, the Age Discrimination in Employment Act, The Pennsylvania Human Relations Act, and all other applicable federal, state and local laws, regulations and ordinances. Inquiries concerning Section 504 of the Rehabilitation Act should be directed to Director of Facilities, Mt. Lebanon School District, 7 Horsman Drive, Pittsburgh PA 15228, 412-344-2090. Inquiries concerning Title IX and the ADA should be directed to Director of Human Resources, Mt. Lebanon School District, 7 Horsman Drive, Pittsburgh, PA 15228, 412-344-2080.

# **Mt. Lebanon High School**

**155 Cochran Road  
Pittsburgh, Pennsylvania 15228  
412.344.2000**

## **Course Catalog 2012- 2013 School Year**

**Published by Mt. Lebanon School District**

The Mt. Lebanon High School Course Catalog is available  
on the Internet by visiting the school web site at

<http://www.mtlsd.org>

## Mission Statement

To Provide the Best Education Possible for  
Each and Every Student.

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for assistance with Course Selection and Graduation Planning**

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**Although school personnel will make every effort to communicate with students and families, it is the student's responsibility to insure that requirements for graduation are met.**

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## SECTION I – GENERAL INFORMATION

### Purpose of the Course Catalog & Timelines

Although designed for student use in selecting courses for the following year, the *Course Catalog* also provides information for long range graduation planning. The *Course Catalog* is distributed in January to all students in Mt. Lebanon in grades 8 through 11. Parents of incoming ninth graders are invited to an evening curriculum presentation during late January to learn about course offerings. During the spring, school administrators use course selections, submitted by students in January and February, to plan the following year's master schedule and resultant staffing needs. Parents may override faculty recommendations for screened courses through March 2, 2012. Changes after this time frame will only be made on a space available basis.

**Teacher Requests** - The school is unable to honor parent and student requests for specific teachers.

### Schedule Changes - Adding & Dropping Courses

Students should select their courses with great care and the awareness that all schedule changes must meet the following rules:

- After March 2, 2012 all schedule change requests must be submitted to the Schedule Change Committee. They will be reviewed on a space available basis.
- New courses may only be added in the first two (2) weeks of the semester in which they begin (Semester 1 for S1 and Full-Year courses, Semester 2 for S2 courses.)
- Students carrying five (5) full-time courses may not drop a course at any time unless they enroll in another course, limiting this option to the first two weeks of a semester.
- Students carrying six (6) full-time courses may apply to the Schedule Change Committee to withdraw from one course. Withdrawal is not guaranteed.
- Withdrawal during the first nine (9) weeks of the course results in a "W" grade on the transcript. Withdrawal during the second nine (9) weeks results in the failing grade of "E" on the transcript. Year long courses will have two separate semester grades to which the above rules will apply.
- If a student withdraws from a course because the level is determined to be inappropriate and enrolls in a different level of a similar course, this is considered a "change of level" rather than withdrawal. Level changes may be initiated by a student, parent or teacher and must be arranged through the school counselor and approved by the parent and department supervisor/chair.
  - o Students may not request a transfer from honors Chemistry to academic Chemistry, from Environmental Geoscience: [APES] to academic Environmental Geoscience, from AP US History to academic US History, or from AP Statistics to academic Statistics or vice versa after the first four (4) weeks of the first semester. These courses do not follow the same scope and sequence.
  - o Students may not request a change from an honors level 4 World Language courses to an academic level 4 World Language course after the first nine (9) weeks. Students may not request a change from an Advanced Placement World Language course to an academic or honors level World Language course after the first nine (9) weeks.

### Commencement Participation

In order to participate in the commencement ceremony, a student must have fulfilled all academic requirements for graduation prior to the commencement ceremony. In addition, students must have met all outstanding delinquent obligations. Senior students who have not met graduation requirements on time may still earn the current year's diploma if they fulfill the requirements by August 31. Senior students who complete their graduation requirements after August 31 will only be eligible for the following year's diploma.

### Credits

Students earn one credit for a one-semester full time course (5 or 6 class meetings per week). Physical education courses earn .50 credits (4 days per week for one semester or 2 days per week for a full year.) All other 4-day courses earn .80 credits per semester, and 3-day courses earn .60 credits.

## Graduation Requirements

<b>Total Credits</b>	42.8
<b>English</b> – Students must take an English course each semester; one course must be year-long American literature course. Students who do not score at the proficient level on the Eighth Grade PSSA Reading Assessment must take an Academic Literacy course during the ninth grade year. Remember that the Academic Literacy 3 course is taken in addition to English 9.	8
<b>Mathematics</b> – Computer science courses do not count for math credits.	6
<b>Science</b> Science credits must be distributed as follows: 2 credits – Physical Sciences; 2 credits – Life Sciences; 2 credits – Geosciences	6
<b>Social Studies</b> 1 credit – American Political & Economic Systems                      2 credits – World Cultures 1 credit – History of Western Cultures                                      2 credits – United States History	6
<b>Health &amp; Wellness</b> –Students fulfill the state-mandated graduation project through successful completion of a personal health project in this course.	1
<b>Physical Education</b> – Courses are required for students in grades 9 and 10 and are elective for students in grades 11 and 12.	1 (3 sem.)
<b>Information Technology</b>	.8
<b>Arts or Humanities Electives</b> – Arts include courses in Fine Arts, Technology Education, and Family & Consumer Science. Humanities include the humanities courses in Fine Arts and the following courses: AP European History, Anthropology, Comparative Religions, (H) European Literature, Honors International Relations, AP Psychology, Psychology, Honors Research in Contemporary America, Sociology, Current Issues in a Global Society and World Language courses beyond Level 2.	4
<b>General Electives</b>	10

Beginning with the class of 2012, in order to be eligible for graduation, a student must demonstrate mastery of the Pennsylvania Academic Standards in Mathematics, Reading, and Writing. Mastery can be demonstrated by receiving a Proficient or Advanced score on PSSA assessments, through progress monitoring on a student's individualized education plan (IEP) and/or demonstrating mastery on a local assessment which is aligned to the Standards.

Should a student not demonstrate proficiency on any or all of the three content area assessments (Mathematics, Reading, and Writing), the student will be required to participate in one of four PSSA remediation programs and demonstrate mastery of the content standards. The programs and mastery demonstration requirements are as follows:

PSSA REMEDIATION PROGRAM	MASTERY DEMONSTRATION
Completion of a summer school course	Demonstrate mastery on the 12 <sup>th</sup> grade PSSA retest OR Obtain a passing grade in the course (local assessment option)
Completion of a course at the High School (Literature & Study Skills and/or PSSA Mathematics)	Demonstrate mastery on the 12 <sup>th</sup> grade PSSA retest OR Obtain a passing grade in the course (local assessment option)
Completion of an asynchronous on-line course	Demonstrate mastery on the 12 <sup>th</sup> grade PSSA retest OR Obtain a passing grade in the course (local assessment option)
Development of a portfolio through the student's traditional English and/or math course	Demonstrate mastery on the 12 <sup>th</sup> grade PSSA retest OR Demonstrate mastery of pre-determined skills and knowledge as demonstrated through the portfolio (local assessment option)

### Course Levels

As a comprehensive high school, Mt. Lebanon offers a demanding college preparatory program supplemented with strong offerings in several elective areas. Three course levels - Academic, Honors and Advanced Placement - enable students to select courses consistent with their abilities and achievements.

Academic level courses are demanding college preparatory courses that require average to above-average analytical reading skills. Students can expect regular homework which reinforces concepts developed in class and some material which is challenging at high cognitive levels.

Honors courses are rigorous courses which demand a high level of analytical reading ability and often lead to Advanced Placement studies. Students are required to spend a significant amount of time outside of class on course work and may have summer assignments.

Advanced Placement courses are first year college level courses that follow the College Entrance Examination Board syllabus and prepare students for the AP examinations given in early May. Some colleges will grant credit for high scores on AP tests. AP courses are the most rigorous course offerings and require a significant amount of time outside of class on course work and may have summer assignments.

### **Screened Courses**

To enroll in Honors and Advanced Placement courses, a student must be recommended by a screening committee which considers: 1) criteria for the course, 2) the student's scholastic ability, 3) achievement and performance, 4) evidence of maturity, motivation, interest and industry and 5) previous teachers' recommendations. Parents who wish to override a faculty screening recommendation must do so through completion of an override form by March 2, 2012. This form may be obtained from the student's school counselor, in Room 527. Changes after this time frame will only be made on a space available basis.

### **Quality Point Average (QPA) and Class Rank**

Class rank has been eliminated from the high school transcript. Any student having an application on which it stipulates that class rank is required and will not be accepted without this information, should see his/her school counselor.

The QPA is derived by dividing the total number of quality points earned by the total number of eligible credits taken at MLHS. Quality points are numerical values assigned to grades. QPA is computed on both a weighted and a non-weighted basis. Point values for weighted QPA are listed in the table below. Point values for non-weighted QPA are always the values listed in the Academic category, i.e., A = 4, B = 3, etc., regardless of the course level. Grades earned in pass/fail courses, physical education, independent study, and work study are not included in the computation of QPA.

Both the weighted and non-weighted QPA's will be printed on student transcripts. Non-weighted QPA is used for honor roll designation.

	<b>AP Weighted Values</b>	<b>Honors Weighted Values</b>	<b>Academic Values</b>
A	5.5	5	4
B	4.5	4	3
C	2	2	2
D	1	1	1
E	0	0	0

A value of .05 is added to the weighted QPA of a student during each semester he/she completes the full course load of 6 credits for grades at MLHS. A value of .01 is added to the weighted QPA each semester a student enrolls in and receives credit for Honors Advanced Pre-calculus.

### **Minimum Class Enrollment**

The administration reserves the right to cancel courses in which enrollment does not reach a minimum level, generally 20 students.

### **Recommended Course Load**

Students are encouraged to schedule six (6) full credit courses per semester. For each semester in which students carry the course load of six (6) full credits completed for grades, they are rewarded with the addition of .05 quality points to their weighted Quality Point Average (QPA).

### **Repeating Courses**

Generally, courses previously passed may not be repeated for additional credit. Exceptions to this rule apply to a limited number of courses, most of which are in the Fine Arts or Technology Education departments.

## Sample Schedule

Grade 9	Grade 10	Grade 11	Grade 12
English 9	English 10	One year-long American literature course	Two semester academic courses or Two semester honor courses or (H) English 12: Senior Seminar or AP English 12: Literature and Composition or AP English 12: Language and Composition
APES/HWC	World Cultures	US History	Elective (1 each sem.)
Geometry	Algebra 2	Functions or Precalculus	Statistics & Finite Math or Calculus
Chemistry	Biology	Environmental Geoscience	Physics, AP science, or Elective
French 2	French 3	French 4	French 5
Technology & Media Applications 9 (4 days/week, 1 sem.)		Health & Wellness (1 semester)	
Physical Education (4 days/week, 1 sem.)	Physical Education (2 days/week each sem.)		
Elective (1 each sem.)	Elective (1 each sem.)	Elective (1 semester)	Elective (1 each sem.)

### **Computer Technology Offerings**

Many opportunities exist within the program of studies for students interested in computer related elective courses. (See listing below.) These courses are offered through the Business Information Technology, Fine Arts, Mathematics and Computer Science, and Technology Education departments. Several require the successful completion of prerequisite courses. More detailed descriptions can be found in the departmental sections of this publication.

#### **Business and Information Technology**

- Keyboarding 1
- Web Page Design
- Web Page Design 2
- Honors Web Page Design 2
- Entrepreneurship
- International Business Simulation

#### **Fine Arts Department**

- Music Technology 1
- Music Technology 2 (pre-requisite: Music Technology 1)
- Music Technology 3 (pre-requisite: Music Technology 2)
- Advanced Placement Music Theory
- Media Arts & Production 1
- Media Arts & Production 2 (pre-requisite: Media Arts & Productions 1)
- Advanced Video Production (pre-requisite: Media Arts & Productions 2)
- Digital Film Making (pre-requisite: Advanced Video Production)

#### **Mathematics and Computer Science**

- Visual Basic 1
- Honors Visual Basic 2 (pre-requisite: VB 1)
- Advanced Placement Computer Science A

#### **Technology Education**

- Computer Assisted Drawing (CAD) for Architecture and Engineering
- Engineering Drawing (pre-requisite: CAD)
- Architectural Drawing (pre-requisite: CAD)
- Architectural and Engineering Design (pre-requisite: A-Drawing or E-Drawing)
- Graphic Communications Technology 1
- Graphic Communications Technology 2 (pre-requisite: GCT 1)
- Graphic Communications Technology 3 (pre-requisite: GCT 2)
- CISCO HP IT Essentials 1 (Hardware)
- CISCO HP IT Essentials 2 (Networking) (pre-requisite: Essentials 1)

## SECTION II – ALTERNATIVE PROGRAMS

### **Alternative Center for Education at Parkway**

Students with severe attendance, behavior or academic concerns may be recommended for placement at the Alternative Center for Education where they may earn credits toward graduation from Mt. Lebanon High School.

### **Auditing Courses**

Students may apply to audit courses when they wish to attend a course without receiving a grade or credit, if there are open seats in the class after all students taking the class for credit have been placed. To audit a course, a student must (1) be taking five courses for credit, (2) secure the teacher's permission, (3) declare his or her intention to audit prior to enrollment in the course, (4) complete the permission form available in the School Counseling Office and (5) attend the class regularly. If auditing a course, the student may not change to requesting credit. Students may not audit during a lunch period. Students may arrange to audit a course through their school counselor.

### **Credit Deficiencies**

Students may makeup credit deficiencies resulting from course failure by repeating the course, taking an approved correspondence course, an approved on-line course, or taking the course in an approved summer school program. Students may arrange credit recovery through their school counselor.

### **Driver's Education**

Students may earn credit on their transcript through the completion of the driver's education course in the Continuing Education Department. Information may be obtained on the high school website and by calling 412.344.2020.

### **Early Admission to College**

For the senior year, an exceptionally able student may attend an approved college on a full-time basis and earn credit toward graduation from MLHS. The student must (1) request approval from his/her school counselor by completing the Application for Early Admission, available in the School Counseling Office, (2) be accepted on a full-time basis in a program granting college credit toward a degree, and (3) provide to MLHS a college transcript to document successful completion of the first year of college. All Mt. Lebanon High School graduation requirements must be met (pp. 2-3) before a Mt. Lebanon diploma can be issued. Students may also follow items 1 and 3 above for dual enrollment during the school day. The student is responsible for all costs of external courses provided by an approved college or dual enrollment program.

### **Early Graduation**

By scheduling carefully, students may be able to satisfy graduation requirements by the end of grade 11 or the end of the first semester of grade 12. Application for early graduation can be made through the School Counseling Office no later than the first month of the semester in which graduation is intended.

### **English as a Second Language**

ESL instruction is available to students with limited proficiency in speaking, listening to, reading or writing English due to their status as immigrants, refugees, foreign exchange students or American born children from non-English speaking homes. Upon enrollment, school counselors may refer students for an ESL evaluation and, if eligible, the student will be scheduled into the program. Most often, students receive elective credit for ESL courses and are also scheduled into English courses.

### **External Courses for Acceleration**

Students wishing to accelerate through the required sequence of courses at MLHS may do so by completing one of the many college courses offered for high school students, primarily during the summer. The student must receive prior approval from the subject supervisor/department chair. Credit toward graduation is not granted for completion of acceleration courses.

### **External Courses for Graduation Credit**

Students may earn a maximum of two (2) credits toward graduation through external courses while enrolled at MLHS. The district is unlikely to approve external credit for those science courses which, when completed at the high school, include a sixth period laboratory experience. Grades earned through external courses are not computed in QPA. The student is responsible for all costs of external courses and providing the counselor with an external transcript as verification of completion and for inclusion on the student's permanent record card.

Correspondence Courses: To earn external credit through correspondence courses, the student must obtain prior approval from his/her school counselor and the appropriate content area supervisor/department chair. The correspondence course must be **accredited**.

Internet/On-line Courses: To earn external credit through on-line courses, the student must obtain prior approval from his/her school counselor and the appropriate content area supervisor/department chair. The internet course must be **accredited**.

### **Independent Study**

Independent study may be applied for by a 12<sup>th</sup> grade student as a sixth or seventh full-time course. Grades are issued and appear on the transcript but are NOT included in the QPA or for .05 add-on purposes. The student must design a plan of

study on a topic that is an extension of, or an addition to, the regular curriculum, secure a Mt. Lebanon High School faculty advisor, and submit an application (available in the School Counseling Office Room 527) prior to the semester in which the independent study is initiated. One (1) credit may be earned for each semester of independent study. Final approval for independent study is at the discretion of the department supervisor/chair.

#### **Parkway West Career and Technology Center**

Students wishing to participate in extensive study of a technical area may pursue application to this school. Students accepted into the program are transported by the district to Parkway for daily half-day sessions through which they earn general elective credits toward graduation at Mt. Lebanon High School. Students also attend the high school for daily half-day sessions for instruction in core subjects such as English, mathematics, science, social studies and physical education. At Parkway, students develop technical skills to obtain and hold jobs in a variety of fields. Attendance in the Parkway program does not preclude college admission following graduation. (Pages 48)

#### **Pass/Fail Courses**

Students wishing to explore a curriculum area without earning a specific grade may apply in writing to take a course on a pass/fail basis. Courses eligible for pass/fail grading are the academic level courses in the Business/Information Technology, Computer Science, Family & Consumer Sciences, Fine Arts, and Technology Education Departments and Imaginative Writing in the English department. The student must submit an application to the counselor within the first four (4) weeks of the course. The pass/fail grade is not included in the QPA.

#### **Summer School**

Students planning to take credit recovery courses during the summer should make application during the week following the last day of the school year. Summer school information is available on the high school web site and in the high school Counseling Office, room 527.

#### **Work Study**

Work study is designed for senior students seeking career exploration opportunities and/or development of general employment skills. Students may apply to earn a maximum of three (3) elective credits each semester for work experiences during the school day. Students must attend three (3) class periods per day at the high school and obtain a work site which is approved by school personnel. Evaluations by the employer and school supervisor result in quarterly and semester grades which are not included in the QPA. Students should apply for work study through the Unit Principal's office.

**SECTION III – COURSES OF STUDY**

Course No.	Course Title	Level	Pass/Fail	Summer Assign.	Grade				Credit Per sem.	Page
					9	10	11	12		
<b>ENGLISH</b>										
1000	English 9	A		✓	✓				1	21
1100	English 10	A		✓		✓			1	21
1200	American Literature: Confrontation in America	A		✓			✓		1	21
1210	American Literature: Exploring the American Dream	A		✓			✓		1	21
1220	American Literature: Celebrating American Individualism	A		✓			✓		1	22
1423	Fiction	A				✓	✓	✓	1	22
1503	Journalism 1	A				✓	✓	✓	1	22
1543	Journalism Production (5 day)	A				✓	✓	✓	1	22
1553	Journalism Production (4 day)	A					✓	✓	.8	22
1433	English 12: The Language of Power	A		✓				✓	1	22
1443	English 12: Technology and Humanity	A		✓				✓	1	22
1453	English 12: Exploration of Social Roles	A		✓				✓	1	22
1463	English 12: The Study of Modern Drama	A		✓				✓	1	22
1473	English 12: The Language of the Natural World	A		✓				✓	1	23
1603	Composition	A				✓	✓	✓	1	23
1613	Imaginative Writing	A				✓	✓	✓	1	23
1623	Imaginative Writing Production	A				✓	✓	✓	1	23
1700	Academic Literacy 2S	A			✓	✓	✓	✓	1	23
1980	Academic Literacy 2	A			✓	✓	✓	✓	1	23
1403	Academic Literacy 3	A			✓				1	23
1413	Literature/Study Skills	A				✓	✓	✓	1	23
1800	Honors English 9	H		✓	✓				1	23
1810	Honors English 10	H		✓		✓			1	24
1820	Honors American Literature	H		✓			✓		1	24
1830	Advanced Placement English 12: Literature and Composition	AP		✓				✓	1	24
1840	Advanced Placement English 12: Language and Composition	AP		✓				✓	1	24
1850	(H) English 12: Senior Seminar	H		✓				✓	1	24
1853	Honors European Literature	H		✓				✓	1	25
1863	Honors British Literature	H		✓				✓	1	25

Course No.	Course Title	Level	Pass/Fail	Summer Assign.	Grade				Credit Per sem.	Page
					9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>		
<b>SOCIAL STUDIES</b>										
2103	American Political and Economic Systems (APES)	A			✓				1	26
2123	The History of Western Cultures (HWC)	A			✓				1	26
2151-2	World Cultures	A				✓			1	26
2200	United States History	A					✓		1	26
2220	Advanced Placement United States History	AP		✓			✓		1	26
2300	Advanced Placement European History	AP						✓	1	26
2323	Anthropology	A					✓	✓	1	26
2343	Comparative Religions	A					✓	✓	1	26
2363	Economics	A					✓	✓	1	27
2383	Political Science	A					✓	✓	1	27
2400	Advanced Placement U.S Government and Politics	AP		✓				✓	1	27
2403	Psychology	A					✓	✓	1	27
2410	Advanced Placement Psychology	AP		✓				✓	1	27
2423	Sociology	A					✓	✓	1	27
2433	Current Issues in a Global Society	A						✓	1	27
2443	Honors International Relations	H						✓	1	27
2453	Honors Research into Contemporary America	H					✓	✓	1	27
<b>MATHEMATICS AND COMPUTER SCIENCE</b>										
3240	Algebra 1	A			✓	✓			1	28
3250	Geometry	A			✓	✓			1	28
3260	Honors Geometry	H			✓	✓			1	28
3350	Algebra 2	A				✓	✓	✓	1	28
3360	Honors Algebra 2	H				✓	✓	✓	1	28
3370	College Preparatory Mathematics	A					✓	✓	1	28
3410	Applications of Functions and Trigonometry	A					✓	✓	1	28
3420	Honors PreCalculus	H				✓	✓	✓	1	28
3430	Honors Advanced PreCalculus	H				✓	✓	✓	1	28
3500	Honors Calculus	H					✓	✓	1	28
3510	Advanced Placement (BC) Calculus	AP					✓	✓	1	29
3530	Advanced Placement Statistics	AP					✓	✓	1	29
3540	Honors Linear Algebra	H						✓	1	29

Course No.	Course Title	Level	Pass/Fail	Summer Assign.	Grade				Credit Per sem.	Page
					9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>		
3541	Statistics	A						✓	1	29
3461	PSSA Mathematics	A						✓	1	29
3552	Finite Mathematics	A						✓	1	29
3572	Personal Finance	A					✓	✓	1	29
3581	Business Mathematics	A					✓	✓	1	29
3803	Visual Basic 1	A			✓	✓	✓	✓	1	29
3823	Honors Visual Basic 2	H			✓	✓	✓	✓	1	30
3850	Adv. Placement Computer Science A	AP					✓	✓	1	30
<b>SCIENCE</b>										
4210	Chemistry	A			✓	✓	✓	✓	1	31
4220	Honors Chemistry	H			✓	✓	✓	✓	1	31
4230	Honors Organic Chemistry	H				✓	✓	✓	1	31
4240	Advanced Placement Chemistry	AP		✓		✓	✓	✓	1	31
4300	Honors Physics: Models of Motion and Forces	H			✓	✓	✓	✓	1	31
4330	Advanced Placement Physics C: Mechanics	AP					✓	✓	1	32
4340	Advanced Placement Physics C: Electricity and Magnetism	AP						✓	1	32
4353	Physics: Sound, Optics, Magnetism & Electricity	A			✓	✓	✓	✓	1	32
4363	Physics: Principles of Energy	A			✓	✓	✓	✓	1	32
4503	Honors Scientific Investigations	H			✓	✓	✓	✓	1	32
4110	Biology	A				✓	✓	✓	1	32
4120	Honors Biology	H				✓	✓	✓	1	33
4173	Astrobiology	A						✓	1	33
4423	Forensic Science	A					✓	✓	1	33
4133	Honors Human Anatomy & Physiology	H					✓	✓	1	33
4150	Advanced Placement Biology	AP		✓			✓	✓	1	33
4400	Environmental Geoscience	A					✓	✓	1	33
4410	Environmental Geoscience: [Advanced Placement Environmental Science]	AP		✓			✓	✓	1	33
4053	Astronomy	A						✓	1	34
<b>WORLD LANGUAGES</b>										
5210	French 1	A			✓	✓	✓	✓	1	35
5220	French 2	A			✓	✓	✓	✓	1	35
5230	French 3	A				✓	✓	✓	1	35
5240	French 4	A					✓	✓	1	35
5250	Honors French 4	H					✓	✓	1	35

Course No.	Course Title	Level	Pass/Fail	Summer Assign.	Grade				Credit Per sem.	Page
					9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>		
5260	Honors French 5	H					✓	1	35	
5270	Advanced Placement French 5	AP					✓	1	35	
5310	German 1	A			✓	✓	✓	1	35	
5320	German 2	A			✓	✓	✓	1	35	
5330	German 3	A				✓	✓	1	35	
5340	German 4	A					✓	1	35	
5350	Honors German 4	H					✓	1	35	
5360	Honors German 5	H					✓	1	36	
5370	Advanced Placement German 5	AP					✓	1	36	
5510	Latin 1	A			✓	✓	✓	1	36	
5520	Latin 2	A				✓	✓	1	36	
5530	Latin 3	A					✓	1	36	
5550	Honors Latin 4	H					✓	1	36	
5610	Spanish 1	A			✓	✓	✓	1	36	
5620	Spanish 2	A			✓	✓	✓	1	36	
5630	Spanish 3	A				✓	✓	1	36	
5640	Spanish 4	A					✓	1	36	
5650	Honors Spanish 4	H					✓	1	37	
5660	Spanish 5	A					✓	1	37	
5670	Advanced Placement Spanish 5	AP		✓			✓	1	37	
<b>BUSINESS AND INFORMATION TECHNOLOGY</b>										
6003	Technology & Media Apps 9 (4 day)	A			✓			.8	38	
6013	Web Page Design	A				✓	✓	1	38	
6023	Web Page Design 2	A				✓	✓	1	38	
6033	Honors Web Page Design 2	H				✓	✓	1	38	
6103	Keyboarding 1	A			✓	✓	✓	1	38	
6211	Honors Financial Accounting 1	H				✓	✓	1	38	
6222	Honors Financial Accounting 2	H				✓	✓	1	38	
6343	Entrepreneurship	A				✓	✓	1	38	
6353	Honors Business Law	H				✓	✓	1	38	
6403	International Business Simulation	A					✓	1	38	
3572	Personal Finance	A					✓	1	39	
3581	Business Mathematics	A					✓	1	39	
<b>FAMILY AND CONSUMER SCIENCE</b>										
6503	Contemporary Life Management	A	✓		✓	✓	✓	1	40	
6513	Child Development 1	A	✓			✓	✓	1	40	
6522	Child Development 2	A	✓			✓	✓	1	40	
6533	Fashion Arts	A	✓		✓	✓	✓	1	40	

Course No.	Course Title	Level	Pass/Fail	Summer Assign.	Grade				Credit Per sem.	Page
					9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>		
6543	Advanced Fashion Arts	A	✓		✓	✓	✓	✓	1	40
6551	Food and Nutrition	A	✓		✓	✓	✓	✓	1	40
6562	Food for Today	A	✓		✓	✓	✓	✓	1	40
6583	Interior Design and Housing (5 day)	A					✓	✓	1	40
6593	Interior Design and Housing (4 day)	A					✓	✓	1	40
<b>TECHNOLOGY EDUCATION</b>										
6603	CAD for Engineering & Architecture	A	✓		✓	✓	✓	✓	1	41
6613	Engineering Drawing	A	✓			✓	✓	✓	1	41
6623	Architectural Drawing	A	✓			✓	✓	✓	1	41
6643	Honors Architectural & Engineering Design	H				✓	✓	✓	1	41
6651	CISCO HP IT Essentials 1	A	✓		✓	✓	✓	✓	1	41
6662	Honors CISCO HP IT Essentials 2	H				✓	✓	✓	1	41
6673	Manufacturing & Production 1	A	✓		✓	✓	✓	✓	1	41
6682	Manufacturing & Production 2	A				✓	✓	✓	1	41
6713	Graphic Communications Technology 1	A	✓		✓	✓	✓	✓	1	41
6723	Graphic Communications Technology 2	A	✓			✓	✓	✓	1	42
6733	Graphic Communications Technology 3	A	✓			✓	✓	✓	1	42
6763	Applied Power Technology	A	✓		✓	✓	✓	✓	1	42
6653	Applied Power Technology 2	A	✓			✓	✓	✓	1	42
6851	Applied Engineering 1	A	✓		✓	✓	✓	✓	1	42
6862	Honors Applied Engineering	H				✓	✓	✓	1	42
<b>FINE ARTS</b>										
7013	Humanities: Classical Greece – Middle Ages	A	✓			✓	✓	✓	1	43
7023	Honors Humanities: Classical Greece – Renaissance	H				✓	✓	✓	1	43
7033	Humanities: Renaissance – 20 <sup>th</sup> Century	A	✓			✓	✓	✓	1	43
7043	Honors Humanities: Renaissance – 20 <sup>th</sup> Century	H				✓	✓	✓	1	43
7053	Dance 1 (5 day)	A	✓		✓	✓	✓	✓	1	43
7063	Dance 1 (4 day)	A	✓		✓	✓	✓	✓	.8	43
7073	Dance 2 (5 day)	A	✓			✓	✓	✓	1	43
7083	Dance 2 (4 day)	A	✓			✓	✓	✓	.8	43
7093	Dance 3 (5 day)	A	✓			✓	✓	✓	1	43
7103	Dance 3 (4 day)	A	✓			✓	✓	✓	.8	43
7160	Dance Company	A	✓		✓	✓	✓	✓	1	44
7200	Concert Choir (5 day)	A	✓		✓	✓	✓	✓	1	44
7210	Concert Choir (4 day)	A	✓			✓	✓	✓	.8	44

Course No.	Course Title	Level	Pass/Fail	Summer Assign.	Grade				Credit Per sem.	Page
					9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>		
7230	Concert Band (5 day)	A	✓		✓	✓	✓	✓	1	44
7240	Concert Band (4 day)	A	✓				✓	✓	.8	44
7250	Wind Ensemble (5 day)	A	✓		✓	✓	✓	✓	1	44
7260	Wind Ensemble (4 day)	A	✓				✓	✓	.8	44
7270	Orchestra (strings)	A	✓		✓	✓	✓	✓	1	44
7280	Orchestra (woodwinds, brass, percussion, piano)	A	✓		✓	✓	✓	✓	1	44
7290	Honors Orchestra	H				✓	✓	✓	1	44
7300	Honors Wind Ensemble	H				✓	✓	✓	1	44
7313	Music Technology 1	A	✓		✓	✓	✓	✓	1	44
7323	Music Technology 2	A	✓		✓	✓	✓	✓	1	45
7330	Music Technology 3 (5 day)	A	✓			✓	✓	✓	1	45
7340	Music Technology 3 (4 day)	A	✓				✓	✓	.8	45
7350	Advanced Placement Music Theory	AP				✓	✓	✓	1	45
7433	Technical Theatre Company (5 day) (Theatre Art & Design)	A	✓		✓	✓	✓	✓	1	45
7443	Technical Theatre Company (4 day) (Theatre Art & Design)	A	✓				✓	✓	.8	45
7463	Community Service Stage Crew (3 day)	A	✓		✓	✓	✓	✓	.6	45
7503	Speech Communication	A	✓		✓	✓	✓	✓	1	45
7523	Theatre Arts 1	A	✓		✓	✓	✓	✓	1	45
7533	Theatre Arts 2	A	✓		✓	✓	✓	✓	1	45
7543	Theatre Arts 3	A	✓			✓	✓	✓	1	45
7573	Daytime Theatre Company	A	✓			✓	✓	✓	1	45
7583	Evening Theatre Company	A	✓				✓	✓	1	46
7603	Art 1 (5 day)	A	✓		✓	✓	✓	✓	1	46
7613	Art 1 (4 day)	A	✓				✓	✓	.8	46
7633	Art 2 (5 day)	A	✓		✓	✓	✓	✓	1	46
7643	Art 2 (4 day)	A	✓				✓	✓	.8	46
7653	2-D Studio Arts (5 day)	A	✓			✓	✓	✓	1	46
7663	2-D Studio Arts (4 day)	A	✓				✓	✓	.8	46
7683	Honors 2-D Studio Arts	H				✓	✓	✓	1	46
7690	Advanced Placement Studio Art	AP				✓	✓	✓	1	46
7703	Ceramics (5 day)	A	✓			✓	✓	✓	1	46
7713	Ceramics (4 day)	A	✓				✓	✓	.8	46
7733	Honors Ceramics	H				✓	✓	✓	1	46
7743	Media Arts & Production 1	A	✓		✓	✓	✓	✓	1	46
7753	Media Arts & Production 2	A	✓		✓	✓	✓	✓	1	46
7783	Advanced Video Production (5 day)	A	✓			✓	✓	✓	1	46

Course No.	Course Title	Level	Pass/Fail	Summer Assign.	Grade				Credit Per sem.	Page
					9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>		
7793	Advanced Video Production (4 day)	A	✓				✓	✓	.8	46
7803	Digital Film Making (5 day)	A	✓			✓	✓	✓	1	47
7813	Digital Film Making (4 day)	A	✓				✓	✓	.8	47
<b>HEALTH AND PHYSICAL EDUCATION</b>										
7903	Health & Wellness	A				✓	✓	✓	1	48
7923	Physical Education 9 (4 day)	P	✓		✓				.5	48
7930	Physical Education 10 (2 day)	P	✓			✓			.25	48
7943	Adapted Physical Education 9 (4 day)	P	✓		✓				.5	48
7953	Adapted Physical Education 10, 11, 12 (2 day)	P	✓			✓	✓	✓	.25	48
7963	Seasonal Sports (2 day)	P	✓				✓	✓	.25	48
7973	Personal Fitness (2 day)	P	✓				✓	✓	.25	48
7983	American Red Cross Life Guarding (2 day)	P	✓				✓	✓	.25	48

## ENGLISH

Mt. Lebanon School District requires that students complete eight (8) credits of English, a minimum of one credit each semester of the four-year sequence. Required courses are English 9, English 10, and an American literature course for juniors, at either academic or honors level. Seniors may make two selections from a menu of several semester courses, choose two semester honors courses, one full-year honors course or opt for AP English 12: Literature and Composition and/or AP English 12: Language and Composition, both year-long choices. Honors and Advanced Placement courses, designed for the exceptionally able and motivated student, require screened admission. These courses emphasize creative and critical thinking and require intensive reading and writing. Extensive independent work is also demanded.

Students who score below proficiency on the Eighth Grade PSSA Reading Assessment will be required to successfully complete an Academic Literacy course during the first semester of ninth grade. The Academic Literacy 3 course is taken in addition to their required English 9 course as a means to support the students in academic English.

Suggested Sequence of English Courses:

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Academic English 9	Academic English 10	One year-long American literature course	Two semester academic courses or Two semester honor courses or (H) English 12: Seniors Seminar or AP English 12: Literature and Composition or AP English 12: Language and Composition
Honors English 9	Honors English 10	Honors American Literature	

<b>ENGLISH 9</b>	<b>1000 – Full Year</b>	Gr. 9	Prerequisite: None
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The course consists of three interrelated thematic units. Unit one, Forces that Shape Identity, is the core and naturally comes first. We will attempt to define identity by examining the complex forces that construct it. Unit two, Confronting Societal Constraints on the Individual, focuses on the specific conflict between an individual's desire for self-definition and the societal forces that attempt to contain the individual. Unit three, The Breakdown of Ethical Foundations in Society and its Effect on Individual Identity, our last area of study for the year, examines the loss of stability in society and the effects of this breakdown on the individual. Thus, units two and three function as specific applications of the knowledge gained in unit one. The literature includes *The Pearl*, *To Kill a Mockingbird*, *Julius Caesar*, *Lord of the Flies*, *Animal Farm*, and excerpts from Hayakawa's *Language in Thought and Action*, poetry, short stories, and memoirs. In their writing, students will analyze a variety of texts and compose several personal narratives that emphasize scene setting and reflection. A summer reading and journal writing activity are also required.

<b>ENGLISH 10</b>	<b>1100 – Full Year</b>	Gr. 10	Prerequisite: English 9
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This course is the capstone to our writing program in which we complete the systematic teaching of writing, revision and editing using multiple opportunities to write in a variety of modes. This course is tightly aligned with the World Cultures course required for every tenth grader. The English course will follow the same sequence of regional units. The literature is selected with the following objectives: (1) to explore the culture, the struggles, the history, etc. of the regions being studied in World Cultures; (b) to "put a face on the region" through the characters in the literature; (c) to allow for a greater focus on the writing instruction above the critical analysis of texts; (d) to extend students' exposure to humanity beyond their current world view. A summer reading and journal activity is also a requirement of this course.

<b>AMERICAN LITERATURE: Confrontation in America</b>	<b>1200– Full Year</b>	Gr. 11	Prerequisite: English 10 A or H
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Protest and war: how have Americans reacted to these events and how have they shaped our national consciousness? Our history is full of conflicts and protests, and through the study of novels, short stories, essays, poems, plays, movies, documentaries, songs, and other material, we will explore how and why individuals from different ethnic groups and of different genders have responded to these events, from Colonial America through the 21<sup>st</sup> century. Explore the thinking and reactions of members of our diverse populace--including yours--to these two issues that have shaped the lives of many Americans. As with the other American Literature electives, this course will prepare you for the PSSA and the SAT. A summer reading assignment is required.

<b>AMERICAN LITERATURE: Exploring the American Dream</b>	<b>1210 – Full Year</b>	Gr. 11	Prerequisite: English 10 A or H
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What is the American Dream? What are the roots of the American Dream? How does access to the American Dream differ for various individuals and/or groups? Is the American Dream still relevant today? Students will use multi-genre/multi-media texts to explore how the American Dream corresponds with or has been affected by the various cultural transformations in American history. Students will be assessed on the proficiency of their reading, writing, speaking, and listening skills through written essays, visual presentations, and other projects. A summer reading and journal activity is also a requirement of this course.

<b>AMERICAN LITERATURE: Celebrating American Individualism</b>	<b>1220</b> -Full Year	Gr. 11	Prerequisite: English 10 A or H
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What are the roots of American Individualism as reflected in our literature? How have American writers depicted the tension between society's expectations and the individual's need for personal freedom? What are the motives and consequences for questioning, breaking, adapting, or simply ignoring society's rules? How is our own quest for personal freedom reflected in the evolving collection of American literature? Students will use multi-genre/multi-media texts to explore the relationship between the individual and society. Students will be assessed on the proficiency of their reading, writing, speaking, and listening skills through written essays, visual presentations, and other projects. A summer reading and journal activity is also a requirement of this course.

<b>FICTION</b>	<b>1423</b> – Sem.	Gr. 10, 11, 12	Prerequisite: None
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This course is partner to No. 1603 Composition and is offered on the opposite semester that Composition is offered. Fiction starts with all students taking a performance assessment to determine individual strengths and weaknesses as a reader and a writer. Based upon the results of the assessment, students will be prescribed a plan of reading and writing activities to be completed with the goal of addressing identified weaknesses. The teacher closely consults with the students as they progress through their plan. This course is offered to remediate prior course failure. This course is also a required course for students to take after completing the Academic Literacy 2 course. Be aware that once this course starts in a term, students could be moved between sections to balance class size and better match student academic needs.

<b>JOURNALISM 1</b>	<b>1503</b> – Sem.	Gr. 10, 11, 12	Prerequisite: None
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Students in this course learn to write news, sports, features and editorials in journalistic style. Students also examine the legal and ethical restrictions on a free press. Other units include basic headline writing, editing and layout. It is important to note that the Journalism 1 course will be particularly challenging for students who struggle with writing. Students interested in working on the school paper should consider registering for Journalism 2 in the semester following Journalism 1.

<b>JOURNALISM PRODUCTION</b>	<b>1543</b> – Sem. (5 days/wk) <b>1553</b> – Sem. (4 days/wk)	Gr. 10, 11, 12 Gr. 11, 12	Prerequisite: Journalism 1
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Students in Journalism Production will be assigned to editorial positions and be responsible for producing the student newspaper, *The Devil's Advocate*. The course will incorporate advanced writing and layout instruction. Students will compile portfolios of their writing, editing, and layout achievements. They also will lead critiques of student and professional publications. In addition, students will complete journalism-related outside reading. Students must be willing to commit time outside of class to the production of the newspaper. Students receive elective credit for Journalism Production, and the course may be repeated.

<b>ENGLISH 12: The Language of Power</b>	<b>1433</b> – Sem.	Gr. 12	Prerequisite: American Lit.
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What is the nature of power? How do those in power use language and propaganda to affect decision-making? How do leadership choices affect social values? Students will use multi-genre/multi-media texts to explore how leaders, corporations, and the media shape society. Students will be assessed on the proficiency of their reading, writing, speaking, and listening skills through written essays, visual presentations, and other projects. A summer reading and journal activity is also a requirement of this course.

<b>ENGLISH 12: Technology and Humanity</b>	<b>1443</b> – Sem.	Gr. 12	Prerequisite: American Lit.
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How do writers envision the future by examining the present? How do futuristic settings reveal and comment on current social trends? To what extent is man a user or a project of technology? How do we understand the relationship between what technology can do and what technology should do? Students will use multi-genre/multi-media texts to explore how technology has shaped cultural values and continues to drive social development. Students will be assessed on the proficiency of their reading, writing, speaking, and listening skills through written essays, visual presentations, and other projects. A summer reading and journal activity is also a requirement of this course.

<b>ENGLISH 12: Exploration of Social Roles</b>	<b>1453</b> – Sem.	Gr. 12	Prerequisite: American Lit.
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How is social position determined? How are stereotypes generated and perpetuated in our society? Are stereotypes ever justified? How fairly are groups and individuals represented in media and literature? Students will use multi-genre/multi-media texts to explore the extent to which social positions are assigned by outside forces. Students will be assessed on the proficiency of their reading, writing, speaking, and listening skills through written essays, visual presentations, and other projects. A summer reading and journal activity is also a requirement of this course.

<b>ENGLISH 12: The Study of Modern Drama</b>	<b>1463</b> – Sem.	Gr. 12	Prerequisite: American Lit.
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What is unique about characterization in drama? How are the elements of drama affected by story lines that don't follow the boundaries of reality? What is the nature of existence? What is the interplay of reality and illusion and what are the boundaries of each? What is the effect of the stage on reality and reality on the stage? Students will use multi-genre/multi-media texts to explore the relationship between theatre and the essential nature of reality in a modern world without answers. Students will be assessed on the proficiency of their reading, writing, speaking, and listening skills through written essays, visual presentations, and other projects. A summer reading and journal activity is also a requirement of this course.

<b>ENGLISH 12: The Language of the Natural World</b>	<b>1473 – Sem.</b>	Gr. 12	Prerequisite: American Lit.
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How does science tell a story? How do writers capture the complexity of science artistically and shape viewpoints about human impact on the natural world? Does science discover truth or does science create truth? Students will use multi-genre/multi-media texts to explore expressions of the natural world and human interactions in it. Students will be assessed on the proficiency of their reading, writing, speaking, and listening skills through written essays, visual presentations, and other projects. A summer reading and journal activity is also a requirement of this course.

<b>COMPOSITION</b>	<b>1603 – Sem.</b>	Gr. 10, 11, 12	Prerequisite: None
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This course is a partner to No. 1423 Fiction and is offered on the opposite semester that Fiction is offered. Composition starts with all students taking a performance assessment to determine individual strengths and weaknesses as a writer and a reader. Based upon the results of the assessment, students will be prescribed a plan of writing and reading activities to be completed with the goal of addressing identified weaknesses. The teacher closely consults with the students as they progress through their plan. The writing process is emphasized as well as grammar, usage, sentence structure, organization, clarity, purpose, and style. This course is intended for students who need intensive instruction in reading and writing. This course is offered to remediate prior course failure. This course is a required course for students to take after completing an academic literacy course. Be aware that once this course starts in a term, students could be moved between sections to balance class size and better match student academic needs.

<b>IMAGINATIVE WRITING</b>	<b>1613 – Sem.</b>	Gr. 10, 11, 12	Prerequisite: None
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Students will examine past and contemporary memoirs, short fiction, and poetry with an eye to constructing their own original works. Student writing is the focus of this course, and we will offer helpful criticism in writing workshops after we discuss key elements of each genre. Students interested in this course should have proficient writing skills and a love of the written word.

<b>IMAGINATIVE WRITING PRODUCTION</b>	<b>1623 – Sem.</b>	Gr. 10, 11, 12	Prerequisite: Imaginative Writing
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Having taken Imaginative Writing as a prerequisite, this new course offers both advanced work in poetry, fiction, and creative non-fiction while giving students the chance to work as *Pulse* staff members. Students will compose more advanced original works in the three above-mentioned genres, engage in writing workshops, and revise with an eye towards publication both in *Pulse* and outside print and electronic publications. Students in this class could embark on field trips to writing conferences and author readings as well as design their own local readings. Students will also record student performances whether live or studio, to incorporate into the web disc. This course will value both core creative writing skills and interdisciplinary teaming with an eye towards a viable product that captures the best student artists. Beginning with the class of 2010, this course will only be available for elective credit only.

<b>ACADEMIC LITERACY 2S</b>	<b>1700 – Full Year</b>	Gr. 9, 10, 11, 12	Prerequisite: None
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Recent research has shown that students can learn to read by mastering specific learning strategies. This course will focus on the processes of reading and the mastery of basic reading skills. Students will learn how to read text accurately and fluently. Comprehension skills will be addressed through paraphrasing, questioning and using textbook strategies to enable students to develop the critical thinking skills necessary in today's academic courses. Research-based strategies will be used to enable students to become independent, active readers. This course is available to students whose scores on standardized assessments indicate need. An elective credit is acquired through this course.

<b>ACADEMIC LITERACY 2</b>	<b>1980 – Full Year</b>	Gr. 9, 10, 11, 12	Prerequisite: screening test
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The Language! Program is a reading intervention program for students who have a documented need for support with language arts due to weaknesses in reading and comprehension and, possibly, vocabulary, writing and/or related skills such as spelling and writing conventions. The comprehensive program provides themed readings at the students' instructional level and at the challenge level as well as direct instruction and practice with language arts skills. This is a highly structured intervention program and students are closely monitored to measure progress.

<b>ACADEMIC LITERACY 3</b>	<b>1403 – Sem.</b>	Gr. 9	Prerequisite: Basic or Below Basic Score on the PSSA Reading Assessment
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Students who score below the proficient level on the PSSA Reading Assessment will be screened into an Academic Literacy course to address reading deficiencies identified on that assessment. Students will schedule the level 3 course in addition to English during the first semester. The course will focus on research-based strategies to address adolescent literacy difficulties, engaging students in meta-cognitive thinking and using explicitly-taught comprehension strategies. When possible, academic Literacy 3 will be co-taught by a reading specialist and an English teacher. An elective credit is acquired through this course.

<b>LITERATURE AND STUDY SKILLS</b>	<b>1413 – Sem.</b>	Gr. 10, 11, 12	Prerequisite: None
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This course supports the academic needs of tenth, eleventh, and twelfth grade students. Students will develop an awareness of the reading strategies they currently use effectively and build upon those strategies. This course provides explicit strategy instruction to support comprehension skills in literature and also in content area texts. It is taught by a reading specialist and an English teacher. This course is offered to remediate prior course failure. Be aware that once this course starts in a term, students could be moved between sections to balance class size and better match student academic needs.

<b>HONORS ENGLISH 9</b>	<b>1800 – Full Year</b>	Gr. 9	Prerequisite: None <b>Screened</b>
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This course establishes the foundation for the Honors/AP English program; therefore, parents and prospective students should

exercise caution when considering this challenging course. Critical analysis in discussion and writing is emphasized and applied to texts like *To Kill a Mockingbird*, *Animal Farm*, *Lord of the Flies* and *Julius Caesar*. Other literary modes to be studied include poetry, short stories, critical essays, and the memoir. Students are required to read two selections from an approved reading list during the summer before grade 9 and one selection each nine-week period during the year. Students become proficient as writers of multi-paragraph literary essays. Development of an original argument, supporting evidence, and thorough analysis leads them to become logical and persuasive writers. Lastly, through the use of Hayakawa's *Language in Thought and Action*, students apply the fundamental concepts of semantics to many of the literary texts.

<b>HONORS ENGLISH 10</b>	<b>1810 – Full Year</b>	Gr. 10	Prerequisite: H Eng. 9 or <b>Screened</b>
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This course is the second phase in the four-year exploration of the idea that identity is a perpetual interplay of cultural, economic, historic, and personal forces. The Honors English 10 curriculum builds on the ninth grade concept of self-definition by moving toward an exploration of maturity as an evolution of the self, as we critique, evaluate, and respond to our own self-concept. The course is comprised of four thematic, multi-genre units (major texts are included in parenthesis): the Heroic Quest (*Beowulf*, *Grendel*), The Quest for Knowledge (*Doctor Faustus*, *Paradise Lost*, *Frankenstein*, and *Waiting for Godot*), the Quest for Power (*Macbeth*, *Things Fall Apart*), and the Quest for Social Status (*The Canterbury Tales*, *Jane Eyre*, *Wide Sargasso Sea*, and *The English Patient*). Students are expected to have completed three outside readings from the approved outside reading list during the summer prior to the tenth grade. Course requirements also include four quarterly outside readings.

<b>HONORS AMERICAN LITERATURE</b>	<b>1820 – Full Year</b>	Gr. 11	Prerequisite: H Eng 10 or <b>Screened</b>
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The curriculum focuses on the literature of the United States as it relates to the history and culture of the country. Students will read and study *The Scarlet Letter*, selected works from Emerson and Thoreau, *The Adventures of Huckleberry Finn*, *The Great Gatsby*, dramas by Arthur Miller, works by Ernest Hemingway, *The Grapes of Wrath*, *Their Eyes Were Watching God*, *The Awakening*, outside readings, and other assigned works. Composition includes a research paper, critical/analytical papers for each unit as well as for outside readings, and some creative writing. Students are challenged with an intensive study of many literary selections and an expectation for clarity and fluency in writing; prospective students should possess strong interest in studying and discussing American literature and well-developed writing skill. Students are required to read three outside reading selections and complete related journaling assignments during the summer.

<b>ADVANCED PLACEMENT ENGLISH 12: LITERATURE AND COMPOSITION</b>	<b>1830 – Full Year</b>	Gr. 12	Prerequisite: H Am Lit or <b>Screened</b>
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Advanced Placement English 12 is the culmination and celebration of four years of Honors English study at Mt. Lebanon and is designed to prepare students for the English Literature and Composition Advanced Placement Examination and to further prepare them for college English study. The course is designed in four multi-genre, thematic units that serve as focusing agents for the study of the literature and the writing in each unit. Themes include those commonly found on the AP examination, ones that will further a student's study of him/herself by way of considering the way we are seen by others and what a responsible person does with that perspective. The units are: Perception and Impression, Duality and Truth, Crisis Resolution and Justice, and Self-Expression and Good Intentions. Each unit is comprised of major pieces of prose fiction, drama and poetry for extensive study, as well as pieces of short non-fiction and poetry for discussion. Each unit is accompanied by a list of both required and suggested outside reading choices designed to reinforce concepts discussed in class as well as enrich a student's reading history in preparation for the exam. A summer assignment is also required.

<b>ADVANCED PLACEMENT ENGLISH 12: LANGUAGE AND COMPOSITION</b>	<b>1840 - Full Year</b>	Gr. 12	Prerequisite: None <b>Screened</b>
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AP English Language and Composition will help students to improve their proficiency in college-level reading and writing. This course is not exclusively for those who have advanced through Honors English courses. It will benefit those who are considering a career in history, law, medicine, engineering, business, and the sciences. Students will learn how to select and apply the right rhetorical approach for a given situation, whether it is to persuade, argue, explain, compare or contrast, and more. To learn these methods of writing, to be in a position to earn college credits via the AP Language and Composition exam, and to develop/strengthen college-level reading and writing skills, enroll in this course. We will study a broad selection of fiction and nonfiction as examples of writing technique and mode, and practice applying those in written discourse for a variety of audiences, simulating both academic and non-academic scenarios. Be ready daily for discussions of *why* and *how* an author conveys meaning, for close textual reading and deconstruction of written works, and, of course, writing. Students will maintain a writing portfolio. A summer assignment is also required.

<b>HONORS ENGLISH 12: SENIOR SEMINAR</b>	<b>1850 - Full Year</b>	Gr. 12	Prerequisite: H Am Lit or <b>Screened</b>
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Great ideas and great books offer human beings the opportunity to explore the varied articulations of being. Honors Senior seminar offers a year-long, co-taught, rigorous curriculum that hones reading, writing, speaking, and listening skills. It offers students excited by the prospect of reading great literature the opportunity to examine ideas across texts and time, culture, and place. By investigating these "great books"—texts deemed canonical for their contributions to the concept of the human spirit—students experience a deep and rigorous study of complex ideas. Across four units of study, students will investigate attempts to understand the human condition, to search for greater knowledge of self and other, to define and examine ethical conduct within the world, and to formulate personal purpose as thinkers and students. Students engage in inquiry-driven investigations with student-designed specializations that are evaluated via a portfolio, which includes research, and critical writing projects. Students practice and model scholarship through group and individual presentations, creative interpretation, and student-generated lessons. The course encourages enrichment opportunities such as outside research and

interdepartmental presentations that are multi-disciplinary in nature. A summer reading and journal activity is also a requirement.

<b>HONORS EUROPEAN LITERATURE</b>	<b>1853 – Sem.</b>	Gr. 12	Prerequisite: None <b>Screened</b>
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Students experience the emotional tension of the early 20th century through the greatest writers of the era. As traditional values break down, the writers capture the impact of cultural and social revolution on their characters that experience injustice, loneliness, and alienation. Unlike American literature, European literature of the 1930's explores existentialism. Examples of existentialist thinking will be explored in the works of Camus, Kafka, and Sartre. Students will also read short stories by Chekov, Mann, Dineson, Babel, Moravia, Capek, Singer and Pirandello. The novels studied in the course are *Madame Bovary* and *Crime and Punishment*. Through teacher guided discussion, students develop metaphorical thinking. Writing assignments include formal essays, creative responses to stories, and reading quizzes.

<b>HONORS BRITISH LITERATURE</b>	<b>1863 – Sem.</b>	Gr. 12	Prerequisite: None <b>Screened</b>
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In their own distinctive styles, William Shakespeare, Jane Austen, Charles Dickens, Thomas Hardy, Joseph Conrad, and Graham Greene present characters confronting universal human predicaments. Students must have sophisticated reading skills and a serious interest in literature to deal successfully with classic novels and some professional criticism about them. Class discussions and writing assignments are integral to each study. A summer reading and journal activity is also a requirement.

## SOCIAL STUDIES

Mt. Lebanon School District requires six (6) graduation credits in social studies. Required courses include American Political and Economic Systems and History of Western Culture in grade 9, World Cultures in grade 10 and United States History or Advanced Placement United History in grade 11. The department also offers numerous and varied elective courses.

<b>AMERICAN POLITICAL AND ECONOMIC SYSTEMS (APES)</b>	<b>2103 – Sem.</b>	Gr. 9	Prerequisite: None
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This course combines the studies of the American political and economic systems. In the political segment of the course, students study the Constitution and the Bill of Rights, the functions and operation of the three branches of government, the influences on government, and the responsibilities of citizenship. The economics segment of the course includes the introduction of basic economic terminology and the operation of the market economy in the U.S.

<b>HISTORY OF WESTERN CULTURES (HWC)</b>	<b>2123 – Sem.</b>	Gr. 9	Prerequisite: None
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This course traces the origins of western culture (social, political, economic and belief-value systems) through the examination of European history. Major topics include European geography, the transition of Europe from the Middle Ages to the period of the Renaissance and Reformation, the development of France and England as democratic nations, the emergence of a market economy, the Industrial Revolution, conflict in the twentieth century and current issues in Europe today.

<b>WORLD CULTURES</b>	<b>2151 &amp; 2152 Full Year</b>	Gr. 10	Prerequisite: None
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After students develop skills in cultural analysis, they apply their skills throughout the year in each of the regional studies. Students examine the contemporary culture in all dimensions (social, political, economic, and belief-value), trace the historical roots, and examine the culture in relation to its geography and the global community. Regions to be studied include Russia and Eastern Europe, China, Japan and Korea, sub-Saharan Africa, the Middle East, India and Latin America.

<b>UNITED STATES HISTORY</b>	<b>2200 – Full Year</b>	Gr. 11	Prerequisite: None
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This course provides students the means to understand the social forces which have shaped them as Americans and will continue to move them into the future. Students learn to use the tools of historical analysis and the concepts of social dynamics in order to be able to interpret the future as it unfolds. The time period studied is from 1877 to the present. Great emphasis is placed on the historical problems and issues of the twentieth century. Special attention is given to the period since World War II. The approach to the subject matter is both chronological and topical. A unique aspect of the course is the U.S. History essay program - a quarterly assessment whose process is taught through teaming with the English Department.

<b>ADVANCED PLACEMENT UNITED STATES HISTORY</b>	<b>2220 – Full Year</b>	Gr. 11	Prerequisite: World Cultures <b>Screened</b>
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This course covers U.S. history from 1607 to the present and follows an A.P. approved syllabus. The course demands both a serious commitment and a high degree of personal responsibility. Instruction includes lecturing, extensive debate and discussion, student-centered independent research and writing, and lessons designed to hone student argumentation and inquiry skills. Forms of evaluation include prepared papers, participation, activities and examinations including finals at the end of each semester. All APUSH students will engage in a research component. There is a strong expectation that students will take the AP examination in May. The summer assignment includes a written component (either paragraph replies to various prompts or an essay) and preparing for an objective exam in the first week of school. Finally, students cannot transfer from AP United States History to Academic US History after the first four weeks of the first semester.

<b>ADVANCED PLACEMENT EUROPEAN HISTORY</b>	<b>2300 – Full Year</b>	Gr. 12	Prerequisite: APUSH or U.S. History <b>Screened</b>
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This course is designed to fulfill the academic requirements of the national Advanced Placement program. The course covers the period from 1450 to the present in a depth comparable to a college level survey course. The approach of the course is chronological with topical investigation built into the framework. Students are introduced to the complexity of historical study by utilizing the fields of social, political, economic, scientific, intellectual and cultural history. There is a strong expectation that students will take the AP examination in May.

<b>ANTHROPOLOGY</b>	<b>2323 – Sem.</b>	Gr. 11, 12	Prerequisite: None
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In this semester course on the study of man, students scientifically explore what it means to be human. Both physical and cultural anthropology are studied. Specifically, physical anthropology deals with primatology (primate behavior), paleontology (fossil evolutionary evidence), human variation (race) and genetics. Cultural anthropology deals with ethnographic analysis (living cultures), archeology and linguistics.

<b>COMPARATIVE RELIGIONS</b>	<b>2343 – Sem.</b>	Gr. 11, 12	Prerequisite: None
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Students develop an awareness of the religious dimensions of human history through the study of religious diversity in contemporary communities of the United States and the world. Five religious traditions are studied: Judaism, Christianity, Islam, Hinduism and Buddhism.

<b>ECONOMICS</b>	<b>2363 – Sem.</b>	Gr. 11, 12	Prerequisite: None
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The focus of this course is the structure and operation of the American economy. There is an emphasis on the market system and the role of government in the economy. The functions of money and banking, the components of the gross domestic product, and the factors influencing economic growth are also presented in relationship to the economy.

<b>POLITICAL SCIENCE</b>	<b>2383 – Sem.</b>	Gr. 11, 12	Prerequisite: None
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Students will study and analyze how political theories originated and developed over time, to the present, and how they impact the current concept of democracy, governmental institutions and the decision making process. This course includes an in-depth look at the critical documents of American constitutional government the institutions of American government, the policy making process and concludes with a look at civil liberties in the post 9-11 era.

<b>ADVANCED PLACEMENT U.S. GOVERNMENT AND POLITICS</b>	<b>2400 – Full Year</b>	Gr. 12	Prerequisite: A.P. USH or U.S. History
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The Advanced Placement course in United States Government and Politics is designed to provide students a critical perspective on politics and government. This course involves both the study of general concepts used to interpret U. S. politics and analysis of specific case studies. It requires familiarity with the various institutions, groups, beliefs and ideas that make up the American political reality. The course is divided into two segments which are broken down into lessons/units. The first segment is *We the People The Citizen and the Constitution*. The course of study focuses on the history and principles of the U. S. Constitution and the Bill of Rights. The second segment focuses on the U.S. Government and Politics. A summer assignment is required. There is a strong expectation that students will take the AP examination in May.

<b>PSYCHOLOGY</b>	<b>2403 – Sem.</b>	Gr. 11, 12	Prerequisite: None
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Psychology is the scientific study of behavioral and mental processes. Curriculum is modeled after the American Psychological Association's framework, which includes five domains: research methods, biopsychological, cognitive, developmental and sociocultural. Psychological disorders and treatments are included in the sociocultural domain. Past and current studies in psychology will be evaluated. Students will research and present their findings using multimedia.

<b>ADVANCED PLACEMENT PSYCHOLOGY</b>	<b>2410 – Full Year</b>	Gr. 12	Prerequisite: Biology <b>Screened</b>
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This course is designed to fulfill the academic requirements of the national College Board Advanced Placement program. The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. There is a strong expectation that students will take the AP examination in May.

<b>SOCIOLOGY</b>	<b>2423 – Sem.</b>	Gr. 11, 12	Prerequisite: None
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Sociology is the systematic study of human society and social interaction. "It enables us to see how behavior is largely shaped by the groups to which we belong and the society in which we live." (Kendall, 05) Using sociological imagination and a social perspective, students examine topics such as groups and organizations, crime, social inequality (global stratification, social class, race, ethnicity and gender), and social institutions (families, education, religion and health issues). Students will research a social issue and present their findings using multimedia.

<b>CURRENT ISSUES IN A GLOBAL WORLD</b>	<b>2433 – Sem.</b>	Gr. 12	Prerequisite: World Cultures and USH or APUSH
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This senior-level semester elective is designed to engage students in the investigation of current global, national, and regional issues. Students will research and evaluate news events of interest and importance. Units of study will be topical, including but not limited to health issues, economic concerns, and peace and security interests. Students will creatively communicate what they have learned. Students rehearse the skills necessary to navigate the complexities of the information age.

<b>HONORS INTERNATIONAL RELATIONS</b>	<b>2443 – Sem.</b>	Gr. 12	Prerequisite: World Cultures and USH or APUSH Screened
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This senior level semester course will immerse students in the study of critical issues facing our world. Students will be challenged to understand the problems and events shaping world affairs today. It begins by examining key concepts such as national interest, power, diplomacy, realism and idealism. It then moves to contemporary issues and topics such as U.S. foreign policy, terrorism, globalization, the global economy, immigration, international crime, international justice and genocide. Among the regions that will be examined are East Asia, Europe, the Middle East, Africa and Latin America. The course is organized around lectures, debates, readings, guest speakers and simulations.

<b>HONORS RESEARCH INTO CONTEMPORARY AMERICA</b>	<b>2453 – Sem.</b>	Gr. 11, 12	Prerequisite: World Cultures and/or USH/APUSH Screened
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This one semester course focuses on current challenges and issues facing America. The course begins with an overview of major issues and topics in contemporary America and then turns over decision-making to students, who have substantial freedom to choose particular topics they wish to study and how they demonstrate their knowledge and perspectives. Students develop research, writing, and public speaking skills, and participate in debates, simulations and team-teaching presentations.

## MATHEMATICS AND COMPUTER SCIENCE

Mt. Lebanon School district requires six (6) graduation credits in mathematics. Students earn general elective, not math, credits for computer science courses.

Although a graphing calculator is required only for the statistics courses, students may find it beneficial to have their own graphing calculator for most other math courses. Math teachers do have classroom sets of calculators and make calculators available for students' home use. Teachers can advise students on the type of graphing calculator they may wish to purchase.

<b>ALGEBRA 1</b>	<b>3240</b> – Full Year	Gr. 9, 10	Prerequisite: None
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This course is designed to meet the needs of students who have not mastered key algebraic concepts from the Math 8 course.

The major areas of focus for the course will be on helping students develop a deep understanding of major algebraic concepts while also preparing students for successful entry into the Geometry course the following year. Upon teacher recommendation, students who take the course will have the option of taking Geometry and Algebra 2 concurrently during the next school year.

<b>GEOMETRY</b>	<b>3250</b> – Full Year	Gr. 9, 10	Prerequisite: Math 8
<b>HONORS GEOMETRY</b>	<b>3260</b> – Full Year	Gr. 9, 10	Prerequisite: H Math 8 or <b>Screened</b>

Students in these courses will develop a deep conceptual understanding of the properties of geometric shapes and demonstrate this through their proficiency at reasoning and proof. Hands-on manipulatives and physical constructions are mixed with appropriate technologies to allow students with the opportunities to investigate and conjecture about geometrical patterns. Topics for the course will include the study of various polygons, the Pythagorean Theorem, area, volume, and proof.

Upon teacher recommendation, honors students may also elect to take Honors Algebra 2 concurrently as a freshman elective course.

<b>ALGEBRA 2</b>	<b>3350</b> – Full Year	Gr. 10, 11, 12	Prerequisite: Geometry
<b>HONORS ALGEBRA 2</b>	<b>3360</b> – Full Year	Gr. 10, 11, 12	Prerequisite: H Geometry or <b>Screened</b>

The culmination of our secondary core mathematics program, this course continues to offer students with experiences rich in mathematical investigations and applications that encourage the exploration of ideas, data, patterns, and algebraic relationships. Graphing calculators and other technologies are incorporated throughout the course in order to help students explore real data and functions in dynamic learning environments. Specific topics to be covered include patterns, recursion, linear systems, functions, transformations, exponentials, quadratics, introductory trigonometry, sequences, series, regression, statistics and probability.

<b>COLLEGE PREPARATORY MATHEMATICS</b>	<b>3370</b> – Full Year	Gr. 11, 12	Prerequisite: Algebra 2
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This course provides a comprehensive review of fundamental high school mathematics topics. Course content closely matches SAT and PSSA topics, as well as, the skills needed in entry level college math courses. Students improve their understanding of math topics through extensive practice and application. Course topics include but are not limited to problem solving, number theory, algebra, measurement, geometry, probability, and statistics.

<b>APPLICATIONS OF FUNCTIONS &amp; TRIGONOMETRY</b>	<b>3410</b> – Full Year	Gr. 11, 12	Prerequisite: Algebra 2
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Students continue learning the algebraic, geometric, and trigonometric concepts developed in the Algebra and Geometry courses. Special emphasis is placed on real world applications and problem solving strategies. This course prepares students for Precalculus. **Students cannot transfer from this course to College Preparatory Mathematics or vice versa after the fourth week of the first semester.** If this level change is made within the accepted four week period, the student is required to make up all missed assignments and assessments for the new course.

<b>HONORS PRECALCULUS</b>	<b>3420</b> – Full Year	Gr. 10, 11, 12	Prerequisite: H Algebra 2 or <b>Screened</b>
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This course expands upon the algebraic, geometric, and trigonometric concepts from prior Honors Math courses. Students are required to apply prior knowledge and skills to improve problem solving and critical thinking ability. The course covers content and develops skills that are important for continuing to Honors Calculus. **Students cannot transfer from this course to Applications of Functions & Trigonometry after the fourth week of the first semester.** If this level change is made within the accepted four week period, the student is required to make up all missed assignments and assessments for the new course.

<b>HONORS ADVANCED PRECALCULUS</b>	<b>3430</b> – Full Year	Gr. 10, 11, 12	Prerequisite: H Algebra 2 or <b>Screened</b>
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This course, designed for the exceptionally able mathematics student, emphasizes mathematical modeling, problem solving, proof and derivation. This is a preparatory course for the Advanced Placement BC Calculus course. Students cannot transfer from Honors Advanced Precalculus to Honors Precalculus after the completion of the first four weeks of the first semester.

<b>HONORS CALCULUS</b>	<b>3500</b> – Full Year	Gr. 11, 12	Prerequisite: H Precalc. or <b>Screened</b>
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This college level course involves a study of differential and integral calculus with emphasis on theory and application. Use of the graphing calculator as an investigative tool is an integral part of this course. It is strongly encouraged that students apply for college credit for this course through the "College in High School" program sponsored by the University of Pittsburgh. Students may also elect to take the Advanced Placement (AB) Calculus test (completion of additional, independent work will be necessary for preparation).

<b>ADVANCED PLACEMENT (BC) CALCULUS</b>	<b>3510 - Full Year</b>	Gr. 11, 12	Prerequisite: H Adv Prec or <b>Screened</b>
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This is a college level course in calculus and related analytic geometry. The content is that prescribed for the (BC) Calculus course by the CEEB Committee on Advanced Placement Mathematics. Use of the graphics calculator as an investigative tool is an integral part of this course, since the AP exam includes questions which assume competency in its application. Students are encouraged to take the AP (BC) Calculus Examination in May; successful performance frequently earns one year of college credit and/or placement in third semester calculus at the college level.

<b>ADVANCED PLACEMENT STATISTICS</b>	<b>3530 – Full Year</b>	Gr. 11, 12	Prerequisite: H Algebra 2 or <b>Screened</b>
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This college level course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploratory analysis of data, planning a study, anticipating patterns in advance (probability and simulation), and statistical inference. The course provides substantial background in statistical methods necessary for a variety of college majors and follows the outline of topics and instructional emphases prescribed by the College Board on Advanced Placement Statistics. The outline of topics along with additional resources can be found on the College Board website. Please note that any student scheduled into AP Statistics wishing to transfer out to semester Statistics must do so with a COURSE change. This is not considered to be a LEVEL change. **A graphing calculator is required for this course.**

<b>HONORS LINEAR ALGEBRA</b>	<b>3540 – Full Year</b>	Gr. 12	Prerequisite: (H) Calculus or AP Calculus BC
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This college level course is designed to prepare students for subsequent coursework in multivariable calculus and modern algebra. Linear algebra is used in abstract algebra, functional analysis and has extensive applications to both natural sciences and social sciences. The course covers systems of equations, vector spaces, linear transformations and matrix representations, determinants, eigenvalues, and a variety of applications. Although this course is sequenced after our (H) Calculus and AP Calculus BC courses, there is no guarantee of colleges awarding credit for successful completion. It is recommended that students construct a portfolio of their work during this course for the purpose of helping colleges determine appropriate college mathematics placement.

<b>STATISTICS</b>	<b>3541 – Sem. 1</b>	Gr. 12	Prerequisite: Algebra 2
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Students learn statistical concepts and interpretation and communication of the results of statistical analyses. Using a graphics calculator, students apply and interpret results of statistical techniques, including exploratory and inferential methods such as variability, distribution, association, causation, sampling, experimentation, confidence and significance. **A graphing calculator is required for this course.**

<b>PSSA MATHEMATICS</b>	<b>3461-Sem.1</b>	Gr. 12	Prerequisite: <b>None</b>
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This semester course is a requirement of any senior student who is not proficient on the 11<sup>th</sup> grade Pennsylvania System of School Assessment (PSSA) in mathematics and who has not selected any of the other three options for meeting the PSSA graduation requirement. The goal of this course is to have students demonstrate proficiency on the mathematics standards as defined by the Pennsylvania Department of Education. Specifically, this course is designed to help students improve their understanding of numeracy, measurement, algebra, geometry, and data analysis concepts. In addition, test-taking skills, open-ended problem-solving, and familiarity with the PSSA test are integrated throughout the course.

<b>FINITE MATHEMATICS</b>	<b>3552 – Sem. 2</b>	Gr. 12	Prerequisite: Algebra 2
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Students are exposed to the conceptual themes of management science, coding information and social choice/decision making. Specific topics include networks, linear programming, planning and scheduling, bar codes, cryptography, voting, polling and apportionment.

<b>PERSONAL FINANCE</b>	<b>3572 – Sem. 2</b>	Gr. 11, 12	Prerequisite: None
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This course prepares students to make effective consumer decisions using basic math skills. Students use technology, both calculators and computers, to explore and study personal applications of money management, such as taxes, checking/savings accounts, and the purchasing of both a car and home. This course may be taken for mathematics or elective credit.

<b>BUSINESS MATHEMATICS</b>	<b>3581 – Sem. 1</b>	Gr. 11, 12	Prerequisite: None
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This course prepares students using a mathematical foundation for the study of business. Students use technology, both calculators and computers, to explore financial applications of a business such as data analysis, inventory, management, sales and marketing. This course may be taken for mathematics or elective credit.

<b>VISUAL BASIC 1</b>	<b>3803 – Sem.</b>	Gr. 9, 10, 11, 12	Prerequisite: None
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This course is designed to be a first course in computer science using the Visual Basic language. Programming concepts include syntax, variables and data types, operators, decision statements, and loops. These topics are explored through classroom activities and computer lab sessions.

<b>HONORS VISUAL BASIC 2</b>	<b>3823 – Sem.</b>	<b>Gr. 9, 10, 11, 12</b>	<b>Prerequisite: See below*</b>
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Good programming techniques continue to be taught as students write and debug code using Visual Basic. Concepts include subprograms, arrays, sorting and searching techniques, and sequential and random access files. \*The prerequisite is Visual Basic 1, a computer science course in middle school, or substantial experience with VB programming along with approval of the instructor.

<b>ADVANCED PLACEMENT COMPUTER SCIENCE A</b>	<b>3850 – Full Year</b>	<b>Gr. 11, 12</b>	<b>Prerequisite: Screened</b>
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In this college level course, students use the JAVA computer language while exploring assignment statements, conditional execution, loops, functions, procedures, arrays and files as well as more advanced computer science topics such as data structures, recursion, and program correctness and verification. In addition to the lab time provided during the class period, students should plan to spend a minimum of two hours per week outside of class in the computer lab. This course prepares students for the AP exam in computer science.

## SCIENCE

Mt. Lebanon School District requires six (6) graduation credits in science. The department provides core courses in the physical, life and geosciences as well as courses for advanced study and specialization. Science credits must be distributed as follows: 2 credits in the Physical Sciences, 2 credits in the Life Sciences and 2 credits in the Geosciences. It is recommended that students study the core subjects prior to or in addition to electing specialized courses.

Suggested Sequence of Core Science Courses:

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
A or H Chemistry	A or H Biology	A or AP Environmental Geoscience	Physics, Chemistry, Life Science or Geoscience course at the AP, Honors, or Academic level.

AP = Advanced Placement; H = Honors; and A = Academic level

NOTE: Students may not request a transfer from honors chemistry to academic chemistry or from Environmental Geoscience: [APES] to academic Environmental Geoscience or vice versa after the first four (4) weeks of the first semester. These courses do not follow the same curriculum and pacing.

<b>CHEMISTRY</b>	<b>4210</b> – Full Year 6 periods/week	Gr. 9, 10, 11, 12	Prerequisite: None
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Students in this course will learn that matter can be described by simple identifiable particles that undergo combination and change with recognizable and predictable properties. The driving force, speed, and manner in which those combinations and changes occur are investigated from a perspective that permits students to appreciate things in the world around them. Topics include matter, atomic structure and bonding; molecular structure and properties; phase changes and behavior of gases; stoichiometry, solution chemistry, and acids and bases. This course differs from Honors Chemistry in depth, pace and the level of mathematical analysis required. Students cannot transfer from Chemistry to Honors Chemistry after the first four weeks of the first semester. This course qualifies for Physical Science graduation credit.

<b>HONORS CHEMISTRY</b>	<b>4220</b> – Full Year 6 periods/week	Gr. 9, 10, 11, 12	Prerequisite: None <b>Screened</b>
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Designed to provide the science or technology oriented student with a rigorous approach in the study of chemistry, this course covers the topics of atomic structure; the periodic table and properties of the elements; chemical bonding, formulas, equations and reactions; kinetics; stoichiometry, and acid-base chemistry. Students who intend to take the SAT Chemistry Subject Test should take this course. Students cannot transfer from Honors Chemistry to Academic Chemistry after the first four weeks of the first semester. This course qualifies for Physical Science graduation credit.

<b>HONORS ORGANIC CHEMISTRY</b>	<b>4230</b> – Full Year 5 periods/week	Gr. 10, 11, 12	Prerequisite: See below* <b>Screened</b>
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This course will introduce students to organic chemistry, or the chemistry of carbon containing compounds. It is primarily for students wishing to pursue a science-based undergraduate major, or for students seeking a non-math based science course. Topics include structure and stability of open-chain and aromatic carbon compounds, nomenclature, stereochemistry, reaction types and mechanisms, and organic synthesis. \*Prerequisite is successful completion of academic or honors chemistry. This course qualifies for Physical Science graduation credit.

<b>ADVANCED PLACEMENT CHEMISTRY</b>	<b>4240</b> – Full Year 6 periods/week	Gr. 10, 11, 12	Prerequisite: (H) Chemistry <b>Screened</b>
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Taught at the college freshman level, this course emphasizes chemistry as an intellectual activity and provides the rigorous training needed for advanced college courses in chemistry [or related fields] as well as success on the A.P. Chemistry test. In this course, the student should attain a depth of understanding of the fundamentals of chemistry and a reasonable competence in dealing with chemical problems. This course should contribute to the development of the student's ability to think clearly and to express their ideas, orally and in writing, with clarity and logic. This course differs qualitatively from the honors chemistry course with respect to the kind of textbook used, the topics covered, the emphasis on chemical calculations, the mathematical formulation of principles, and the kind of laboratory work done. Quantitative differences appear in the number of topics treated, the time spent on the course by the student, and the nature and variety of the experiments done in the laboratory. A summer assignment is required to begin this course. This course qualifies for Physical Science graduation credit.

<b>HONORS PHYSICS: MODELS OF MOTION AND FORCES</b>	<b>4300</b> – Full Year 5 periods/week	Gr. 9, 10, 11, 12	Prerequisite: See below* <b>Screened</b>
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What was Isaac Newton thinking when that apple hit him on the head? Was he thinking that the motion of falling objects could be explained and even predicted? Probably not, but that's what you'll be thinking in "Models of Motion and Forces." And falling objects will be just the beginning. You'll take part in activities that are designed to help you explain why some things (like planets and planes) move, while other things (like bridges and buildings) do not. As you progress through this course, you will construct a deep understanding of the branch of physics known as "mechanics." The use of mathematical "models" will allow you to observe and understand the behavior of nearly any object in the universe. These models can then be applied to more advanced topics in physics, such as those seen in engineering, or even to an understanding of the origins of calculus. \*Current

or prior placement in an Algebra II course. Note: 9<sup>th</sup> grade students can only elect this course if concurrently enrolled in Honors Chemistry (4220) and Honors Algebra 2 (3360). This course qualifies for Physical Science graduation credit.

<b>ADVANCED PLACEMENT PHYSICS C: Mechanics</b>	<b>4330</b> – Full Year 5 periods/week	Gr. 11, 12	Co-requisite: See below* <b>Screened</b>
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Students enrolled in this course will feel like college freshman as they explore the topics of motion, forces, energy, momentum, circular motion, vibrations, and gravity. Students will experience science in the same way Isaac Newton did as they design and perform experiments that answer some of the classic questions in the study of physics. Along the way, students act like scientists and engineers as they apply the scientific method to technology-infused laboratory activities. This course also provides a true bridge between science and math as students learn and apply calculus concepts when analyzing physics principles. Although the primary purpose of the course is to prepare students for the AP Examination, successful completion of this course will provide students with a solid foundation for further studies in science. Any student thinking of a career in the field of science or engineering would benefit from the knowledge gained in this course. \*Co-requisite: Honors Advanced Precalculus (3430) or a calculus course. This course qualifies for Physical Science graduation credit.

<b>ADVANCED PLACEMENT PHYSICS C: Electricity &amp; Magnetism</b>	<b>4340</b> – Full Year 5 periods/ week	Gr. 12	Prerequisite: See below* <b>Screened</b>
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Look around the room that you're sitting in. Think of all the devices in the room that operate by using electricity. What actually makes these devices "work"? What's going on inside your computer, television, cell phone, or iPod? In AP E&M you'll perform college-level lab activities designed to help you discover the fundamental laws of the electromagnetic world. This course provides a true bridge between science and math as students apply calculus concepts when analyzing physics principles. Although the primary purpose of the course is to prepare students for the AP Examination, successful completion of this course will provide students with a solid foundation for further studies in science. Any student thinking of a career in the field of science, engineering, or computer design would benefit from the knowledge gained in this course. \*Prerequisite: Honors Physics: Models or concurrent or prior placement in AP Physics C: Mechanics. Concurrent or prior placement in a calculus course is also necessary. This course qualifies for Physical Science graduation credit.

<b>PHYSICS: SOUND, OPTICS, MAGNETISM &amp; ELECTRICITY</b>	<b>4353</b> - Sem. 5 periods/week	Gr. 9, 10, 11, 12	Prerequisite: None
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Some Physics? No, S.O.M.E. Physics. It's an acronym for Sound, Optics, Magnetism, and Electricity. These are areas of physics that are all based on interactions. Humans interacting with sound and light waves, sound waves interacting with air, light waves interacting with colored glass, powerful magnets interacting with copper wires; these are all topics that will be explored through a variety of activities in S.O.M.E. Physics. Although these topics can be described with elegant mathematical models, this course will focus on the conceptual nature of these topics. This course will also provide students with the opportunity to see how these diverse topics relate to many existing and emerging careers and technologies. Note: 9<sup>th</sup> grade students can only elect this course if concurrently enrolled in Chemistry (4212 or 4220). This course qualifies for Physical Science graduation credit.

<b>PHYSICS: PRINCIPLES OF ENERGY</b>	<b>4363</b> – Sem. 5 periods/week	Gr. 9, 10, 11, 12	Prerequisite: None
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It cannot be created and it cannot be destroyed. What is it? Energy: the most important concept in all of science and yet one of the most misunderstood. In "Principles of Energy" students will construct a thorough understanding of the many forms of energy as they explore energy transformations in systems ranging from roller coasters to nuclear power plants. As students progress through the course, they will realize that knowledge of the principles of energy is essential in order to be a responsible member of society. Upon completion of the course, students will be equipped to make informed decisions regarding energy sources and energy uses. Note: 9<sup>th</sup> grade students can only elect this course if concurrently enrolled in Chemistry (4212 or 4220). This course qualifies for Physical Science graduation credit.

<b>HONORS SCIENTIFIC INVESTIGATIONS</b>	<b>4503</b> – Sem. 5 periods/week	Gr. 9, 10, 11, 12	Prerequisite: None <b>Screened</b>
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Good scientists are not necessarily very smart. They are, however, good at asking questions. All of science boils down to asking questions about something of interest. You might have a question about something that you noticed the last time you drove past a construction site or you might have a question about something that you saw growing on a tree in Bird Park. You may wonder how the touch screen on a phone works or you may wonder about the effectiveness of hand sanitizer. Whatever your area of interest, in this course you will craft a researchable question and have the opportunity to perform scientific investigations to try to answer that question. Students do not need to know which type of investigation they would like to perform before starting the course. The instructor will support and advise the student throughout the processes of investigation: asking a question, developing a hypothesis, designing an experiment, collecting results, and analyzing those results to see if the hypothesis can be supported. Science is a creative process, and it is only through thinking outside of the box and asking new questions that we grow as scientists. This course qualifies for elective graduation credit, and it may be repeated for credit. As such, a student could start an investigation as early as 9<sup>th</sup> grade and continue to develop that inquiry throughout high school.

<b>BIOLOGY</b>	<b>4110</b> – Full Year 6 periods/week	Gr. 10, 11, 12	Prerequisite: None
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In this course students will explore the nature of science through experimental design. The following questions will be addressed: How do matter and energy cycle and flow through living things and their environment? How do organisms transport matter and energy to maintain homeostasis? How do organisms receive and respond to stimuli? How do organisms maintain

continuity of life? How has evolution led to the diversity of living things? How do living things interact with each other and their environment? How do human population growth and consumption lead to ecological imbalance? This course qualifies for Life Science graduation credit.

<b>HONORS BIOLOGY</b>	<b>4120</b> – Full Year 6 periods/week	Gr. 10, 11, 12	Prerequisite: Chemistry <b>Screened</b>
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In this course students will investigate biological processes through rigorous laboratory investigations, case studies, outside readings, writing and independent research. This class will investigate the nature of science through experimental design. The following questions will be addressed: How do matter and energy cycle and flow through living things and their environment? How do organisms transport matter and energy to maintain homeostasis? How do organisms receive and respond to stimuli? How do organisms maintain continuity of life? How has evolution led to the diversity of living things? How do living things interact with each other and their environment? How do human population growth and consumption lead to ecological imbalance? Students who intend to take the SAT Biology Subject Test should take this course. This course qualifies for Life Science graduation credit.

<b>ASTROBIOLOGY</b>	<b>4173</b> – Sem. 5 periods/week	Gr. 12	Prerequisite: Biology and Environmental Geoscience
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This course allows students to explore the unknown; Life - What is it? Where is it? What is the future of life? Students will be expected to apply prior knowledge from biology, earth and space, and the physical sciences in order to understand a new field of science. This course is designed for any student interested in further exploring and understanding the concept of life and will promote critical thinking and problem solving skills. The curriculum is supported by NASA and is emerging as a new challenge for the 21st century. See the NASA Astrobiology website: <http://astrobiology.arc.nasa.gov/>. This course qualifies for Life Science or Geoscience graduation credit.

<b>FORENSIC SCIENCE</b>	<b>4423</b> – Sem. 5 periods/week	Gr. 11, 12	Prerequisites: Chemistry, Biology
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Forensic science is the study and application of science as it pertains to law. Forensic scientists work in crime labs, analyzing evidence collected at crime scenes. Forensic science is multidisciplinary. Throughout this course, students will draw on topics in chemistry, physics, biology, anatomy & physiology, mathematics, statistics, psychology, sociology and law. This is an inquiry-based course that uses scientific methods to solve crimes or other mysteries. In addition to deepening their understanding of scientific concepts, this course will sharpen students' critical thinking and problem-solving skills. This course qualifies for Life Science or Physical Science graduation credit.

<b>HONORS HUMAN ANATOMY &amp; PHYSIOLOGY</b>	<b>4133</b> – Sem. 5 periods/week	Gr. 11, 12	Prerequisites: Chemistry, Biology <b>Screened</b>
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Throughout the 18 weeks, students will investigate in great detail the structures, functions, and systems of the human body. Human tissue types as well as skeletal, muscular, digestive, cardiovascular, and respiratory systems will be studied through lectures, labs, and dissections. To enroll in this course, students should be comfortable with dissecting and working with preserved specimens. This honors level course will help prepare students for a career in a health related field. This course qualifies for Life Science graduation credit.

<b>ADVANCED PLACEMENT BIOLOGY</b>	<b>4150</b> – Full Year 6 periods/week	Gr. 11, 12	Prerequisites: Chemistry, Biology <b>Screened</b>
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In this rigorous college level course, living organisms are studied from the cellular, genetic, organismal, and ecological perspectives. In-depth analysis of current research areas such as recombinant DNA and gene splicing provides students with knowledge of major trends in biological research. Laboratory exercises provide hands-on experiences with the basic tools of biological research. A primary purpose of the course is to prepare students for the Advanced Placement Examination; however, any college bound student, especially a student planning a college major in the sciences would benefit from this course. A summer assignment is required. This course qualifies for Life Science graduation credit. It is our recommendation that AP Environmental Geoscience be taken prior to or concurrently with AP Biology. The reason for this is the material in AP Environmental Geoscience serves as valuable prior knowledge for AP Biology.

<b>ENVIRONMENTAL GEOSCIENCE</b>	<b>4400</b> – Full Year 6 periods/Week	Gr. 11, 12	Prerequisites: Chemistry, Biology
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This capstone course will draw upon students' knowledge of the physical and life sciences while exposing them to the concepts and challenges of geologic hazards and resources, environmental pollution and health, natural resource management, and global change and sustainability. The following questions will be addressed. How did the solar system form and how has it changed over time? How do the interactions of the Earth's systems (geosphere, hydrosphere, atmosphere and biosphere) impact the environment and why are human interactions with these systems important? How does technology (e.g. Global Information Systems) help us learn about the Earth from a systems perspective? How might people, the environment, and all the Earth's systems interact in the future? This course qualifies for Geoscience graduation credit.

<b>ENVIRONMENTAL GEOSCIENCE: [ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE]</b>	<b>4410</b> – Full Year 6 periods/week	Gr.11, 12	Prerequisites: Chemistry, Biology <b>Screened</b>
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This AP course will draw upon students' knowledge of the physical and life sciences while exposing them to the concepts and

challenges of environmental science. Students will investigate geological hazards and resources, environmental pollution and health, and global change and sustainability via case studies, outside readings and writings, laboratory investigations, independent thinking, and governmental policy. Students will also be engaged in independent research projects throughout the year. The following questions will be addressed: How do the interactions of the Earth's systems (geosphere, hydrosphere, atmosphere and biosphere) impact the environment and why are human interactions with these systems important? How might people, the environment and all the Earth's systems interact in the future? Students taking this course will be prepared to take the AP examination in Environmental Science. A summer assignment is required. This course qualifies for Geoscience graduation credit.

<b>ASTRONOMY</b>	<b>4053</b> – Sem. 5 pds/week	Gr. 12	Prerequisite: Environmental Geoscience
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This course provides students with the opportunity to study the oldest formal science. Using the planetarium and a multi-media approach, students experience the applications of basic science (physics, chemistry, and biology) in a setting that simulates observations of natural phenomena. Descriptive aspects of the sky are stressed through liberal use of planetarium observations. This course qualifies for Geoscience graduation credit.

## WORLD LANGUAGES

Although Mt. Lebanon School District does not require world language credits for graduation, it is recommended that students study at least three (3) years of the same language. Many colleges and universities require a world language for admission, and many prefer to see students continue through the advanced courses to complete the sequence of language study offered by the school. The district does require 14 elective credits, four of which must be in the Arts or Humanities. World language courses above level 2 qualify in the Arts/Humanities category.

<b>FRENCH 1</b>	<b>5210 - Full Year</b>	Gr. 9, 10, 11, 12	Prerequisite: None
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Students learn to communicate in a variety of practical situations by acquiring the necessary vocabulary and grammatical structures to function in daily activities. The course stresses speaking and listening skills with accompanying practice in writing and reading. Tapes and video segments are used to provide students with the opportunity to practice and comprehend the language. In addition, students begin to acquire understanding of the culture of the francophone world.

<b>FRENCH 2</b>	<b>5220 - Full Year</b>	Gr. 9, 10, 11, 12	Prerequisite: French 1
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French 2 is a continuation of French 1. This course stresses the acquisition of larger amounts of vocabulary around themes such as sports, leisure, foods, etc. Students continue to learn and practice elements of basic grammar and language structure. Audio and video segments provide students with practice in comprehending and responding to native speech. Students read appropriate level texts and write short compositions on related topics.

<b>FRENCH 3</b>	<b>5230 - Full Year</b>	Gr. 10, 11, 12	Prerequisite: French 2
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Students review basic French grammar and learn advanced skills in oral proficiency through communicative activities. Students experience formal practice in language structures, exercises to promote oral proficiency, authentic texts to develop reading comprehension and opportunities for more advanced writing practice.

<b>FRENCH 4</b>	<b>5240 - Full Year</b>	Gr. 11, 12	Prerequisite: French 3
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This course continues the review of basic grammar and acquisition of advanced language structures. Vocabulary is extended through thematic units. Class work includes discussion of current topics using various media. Students receive increased practice in composition based on class discussions and readings. Students in the Honors level course must demonstrate higher levels of proficiency in all areas of skill development.

<b>HONORS FRENCH 4</b>	<b>5250 - Full Year</b>	Gr. 11, 12	Prerequisite: French 3 <b>Screened</b>
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This course provides review of basic language structures while introducing advanced grammar and extending vocabulary. Class work includes discussion of current topics using authentic documents. Students receive increased practice in composition based on class discussions and readings. Students in the honors level course must demonstrate higher levels of proficiency in all areas of skill development.

<b>HONORS FRENCH 5</b>	<b>5260 - Full Year</b>	Gr. 12	Prerequisite: Fr 4 or H Fr 4 <b>Screened</b>
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<b>ADVANCED PLACEMENT FRENCH 5</b>	<b>5270 - Full Year</b>	Gr. 12	Prerequisite: H Fr 4 <b>Screened</b>
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This course is designed to prepare students to take the French Language AP examination, and to promote higher level language skills with authentic texts, and listening/speaking skills with a variety of audio and video sources. Writing skills are improved through frequent compositions and advanced grammar study. Students in the AP level course must demonstrate higher levels of proficiency in all areas of skill development.

<b>GERMAN 1</b>	<b>5310 - Full Year</b>	Gr. 9, 10, 11, 12	Prerequisite: None
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The first level German course emphasizes the four basic language skills of listening, speaking, reading and writing with special emphasis on the foreign culture as seen in the daily lives of young people. Fundamental German vocabulary and grammatical structure are presented in a variety of experiences with the actual language using a highly adaptable multi-media core and supplementary materials.

<b>GERMAN 2</b>	<b>5320 - Full Year</b>	Gr. 9, 10, 11, 12	Prerequisite: German 1
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Students practice German language skills in the cultural context of the life styles of their German peers. Students use a broad selection of materials such as audio recordings, videos, cards, posters, letters and stories. Upon completion of German 2, students possess a strong understanding of basic grammar, vocabulary, and culture, and demonstrate flexibility and finesse in using language skills.

<b>GERMAN 3</b>	<b>5330 - Full Year</b>	Gr. 10, 11, 12	Prerequisite: German 2
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Students continue the study of German grammar and syntax. All structures are completed and details of grammar are studied in more depth. Primary emphasis is still on the audio-lingual skills, especially as students begin to personalize their responses and thoughts, but there is increased emphasis on reading and writing. The use of supplemental reading material is introduced.

<b>GERMAN 4</b>	<b>5340 - Full Year</b>	Gr. 11, 12	Prerequisite: German 3
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<b>HONORS GERMAN 4</b>	<b>5350 - Full Year</b>	Gr. 11, 12	Prerequisite: German 3 <b>Screened</b>
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Students are introduced to the more complex levels of grammar. Much emphasis is placed upon reading of 20<sup>th</sup> Century literature in its original form. Increased emphasis is placed upon writing. At all times, the skills of listening comprehension and speaking are considered of prime importance. Students in the honors level course must demonstrate higher levels of proficiency in all areas of skill development.

<b>HONORS GERMAN 5</b>	<b>5360</b> - Full Year	Gr. 12	Prerequisite: G 4 or H G 4 <b>Screened</b>
<b>ADVANCED PLACEMENT GERMAN 5</b>	<b>5370</b> - Full Year	Gr. 12	Prerequisite: H German 4 <b>Screened</b>

This course emphasizes active communication by preparing students to use vocabulary, grammar and syntax with a high degree of proficiency both orally and in writing, and to understand spoken German in both formal and conversational situations. In a thematic approach to language learning, students will become more proficient in the three modes of communication: interpersonal (both formal and informal), interpretive and presentational. Students learn to read newspaper and magazine articles, contemporary fiction and non-technical writings without the use of a dictionary. Students practice their language skills both in the context of preparation for the AP exam and in real life situations. Students in the AP level course must demonstrate higher levels of proficiency in all areas of skill development.

<b>LATIN 1</b>	<b>5510</b> - Full Year	Gr. 9, 10, 11, 12	Prerequisite: None
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Students of Latin I will benefit from a clearer understanding of the English language through the study of Latin and Greek vocabulary. Students will practice their newly-acquired language skills by translating Latin stories and by composing Latin dialogues and narratives. The Internet-based activities of the curriculum promote an understanding of many interesting facts of Roman culture, including the use of Latin mottos, abbreviations, and terms still used today in law, science, medicine, and literature. The ancient city of Pompeii figures prominently in the Latin 1 curriculum and serves to enhance the Latin I students' knowledge of Roman society in the 1<sup>st</sup> century A.D. Major themes of the Latin I curriculum include: daily life, Roman religion, archaeology, classical mythology, slavery, education, theater, spectator sports, and Roman architecture.

<b>LATIN 2</b>	<b>5520</b> – Full Year	Gr. 10, 11, 12	Prerequisite: Latin 1
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Students will continue to sharpen their skills in Latin translation and composition and will add to their knowledge of Latin vocabulary and grammar. The study of Latin-based cognates will provide the opportunity for students to increase their "word power" in English. Roman life outside of Italy is explored through a study of the Roman period in Egypt and the conquest of Britain. Students will study the origins of modern medicine and will acquire a basic knowledge of Latin terminology relative to the human anatomy and pharmaceutical terms. Other themes to be explored via classroom and Internet-based learning include: the city of Alexandria, the art of glassmaking, pagan religions, the city of Bath, Latin curses and superstitions, travel and communication, and the Roman military.

<b>LATIN 3</b>	<b>5530</b> – Full Year	Gr. 11, 12	Prerequisite: Latin 2
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The Roman siege of Masada provides the back-drop for the Latin students' entrance into the third level. Stories of military might, architectural excellence, and imperial intrigue will lead students to a greater understanding of the Latin language. Students will learn more advanced grammatical constructions in order to handle the translation of both adapted and authentic text. Students will engage in Internet-based activities to increase their cultural awareness of the Roman world and in writing tasks where they will demonstrate their linguistic competencies. As in the previous two levels, students will receive additional support in their acquisition of cognates of Latin origin. Cultural themes of the Latin III curriculum include: Rome and Judaea, Roman engineering, Roman society, religion, and entertainment.

<b>HONORS LATIN 4</b>	<b>5550</b> – Full Year	Gr. 12	Prerequisite: Latin 3 <b>Screened</b>
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Some of the greatest writers of Latin literature are featured in this honors-level course. Vergil, Ovid, Catullus, and Horace are but a few of the authors whose works will be examined. A variety of works in prose and poetry, literary devices and Latin meter, and the art and literature which these authors inspired in later centuries will be investigated. Students will have the opportunity to study additional Latin authors and sources of their choice throughout the year. Authentic ancient, medieval, and contemporary text in Latin will supplement the adapted selections of the Latin textbook. Students enrolled in this course will have the necessary competence and experience to perform well on the SAT II if they choose to do so.

<b>SPANISH 1</b>	<b>5610</b> – Full Year	Gr. 9, 10, 11, 12	Prerequisite: None
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In this introduction to Spanish language and culture, students gain an active and flexible command of Spanish through personal involvement and understanding. The program emphasizes communication through authentic exchanges in Spanish and provides the necessary foundation for further study of the language.

<b>SPANISH 2</b>	<b>5620</b> – Full Year	Gr. 9, 10, 11, 12	Prerequisite: Spanish 1
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Students continue the study of pronunciation, vocabulary, and grammatical concepts. Reading and speaking skills are taught with emphasis on fluency and comprehension. Writing exercises are used to establish grammatical concepts. Through readings, students expand knowledge of the history, customs, and cultures of Hispanic countries.

<b>SPANISH 3</b>	<b>5630</b> – Full Year	Gr. 10, 11, 12	Prerequisite: Spanish 2
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Students develop a functional communicative proficiency through age-relevant topics, a general insight into Spanish grammar, and development of a large vocabulary base. Through readings, students expand knowledge of history, customs, and culture of Hispanic countries. Students take an oral proficiency exam in the last nine weeks of the course.

<b>SPANISH 4</b>	<b>5640</b> - Full Year	Gr. 11, 12	Prerequisite: Spanish 3
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In this course for those interested in continuing their study of Spanish language and culture, students engage in diverse activities to further develop reading, writing, speaking and listening skills. The language lab will be used to develop better pronunciation and hear native speakers. Students will study the geography and culture of Latin America. Several Hispanic celebrations are explored. Students who attain a high level of proficiency in this course are well prepared for Spanish 5.

<b>HONORS SPANISH 4</b>	<b>5650 - Full Year</b>	Gr. 11, 12	Prerequisite: Spanish 3 <b>Screened</b>
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Students expand vocabulary and grammar mastered in the previous levels, as well as more complex concepts, to express their own ideas and do creative work in both oral and written form. Greater emphasis is placed on reading and writing than in previous levels. Students compare and contrast Hispanic cultures with their own on several thematic topics. Honors Spanish 4 is the pre-requisite course for AP Spanish 5.

<b>SPANISH 5</b>	<b>5660 - Full Year</b>	Gr. 12	Prerequisite: Spanish 4
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This course provides continued development of reading, writing and speaking skills. Emphasis is on stronger vocabulary, higher levels of verb tenses and work in the language lab in order to improve pronunciation, and develop better reading comprehension skills. Students will also study current cultural topics and the regional celebrations of Spain.

<b>ADVANCED PLACEMENT SPANISH 5</b>	<b>5670 – Full Year</b>	Gr. 12	Prerequisite: H Spanish 4 <b>Screened</b>
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Through a thematic approach, students study modern day topics such as Spanish-speaking minority cultures in the United States. The focus is on integrating the skills of listening, speaking, reading and writing. There is a summer assignment which provides a review of essential grammar points.

## BUSINESS & INFORMATION TECHNOLOGY

This department offers courses for students interested in learning more about software applications and business theory for their own use, for employment, or for advanced preparation for college. Students planning to major in Business Administration in college should take as many courses listed below as their schedules permit. Some courses offer "College in High School" credit. **The Technology & Media Literacy Apps 9 course is a graduation requirement for students.**

<b>TECHNOLOGY &amp; MEDIA APPS 9 (4 day)</b>	<b>6003 – Sem.</b>	Gr. 9	Prerequisite: None
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This is a 4-day semester project-based course for high school students to provide a foundation to effectively use Microsoft Office 2007. The students will act as entrepreneurs throughout the semester using a student selected business. This business will be the basis for their webpage portfolio and will encompass all projects created in the course.

<b>WEB PAGE DESIGN</b>	<b>6013 – Sem.</b>	Gr. 10, 11, 12	Prerequisite: None
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This class is designed to give students an introduction to the process of creating dynamic websites. Students will be able to analyze and determine the basic necessities of a successful website structure. Adobe's DreamWeaver will be the central program utilized in this class as students go from creating basic one page sites to elaborate multi-page sites with forms, graphics, and sounds.

<b>WEB PAGE DESIGN 2</b>	<b>6023 – Sem.</b>	Gr. 10, 11, 12	Prerequisite: Web Page Design or Teacher Approval
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Web Page Design 2 is a continuation of Web Page Design. Students will expand on their website development skills in practical, real-world settings. Independent and/or small group projects will be the primary emphasis during full-scale website development.

<b>(H) WEB PAGE DESIGN 2</b>	<b>6033 – Sem.</b>	Gr. 10, 11, 12	Prerequisite: Web Page Design 2
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Honors Web Page Design 2 is a continuation of Web Page Design 2: This course is designed to introduce students to Adobe suite of Web-authoring applications. This Web design software lets students create dynamic, interactive Web pages containing text, images, hyperlinks, animation, sounds, video, and other elements. This course may only be taken for two (2) semesters of honors credit, after which students may return to the academic level of Web Page Design 2.

<b>KEYBOARDING 1</b>	<b>6103 – Sem.</b>	Gr. 9, 10, 11, 12	Prerequisite: None
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Learn to touch type the computer keyboard. After students develop proper technique, the focus shifts to improving speed and accuracy and to improving productivity of school performance using Office software features. It is recommended that this course should be taken if you feel weak in these areas, if you missed parts of the middle school IT sequence, or if you recently moved into the district. Any student who missed a part of the middle school sequence should consider Keyboarding 1 as a freshman elective.

<b>HONORS FINANCIAL ACCOUNTING 1</b>	<b>6211 – Sem. 1</b>	Gr. 10, 11, 12	Prerequisite: Geometry or <b>Screened</b>
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Get a jump start on your degree in business administration. This course is the first accounting class you will be required to take at the college level. It is divided into two semesters to provide adequate classroom time for the mastering of course content as well as the application of computer concepts. You will have the option of earning 4 college credits if both semesters are taken the same year.

<b>HONORS FINANCIAL ACCOUNTING 2</b>	<b>6222 – Sem. 2</b>	Gr. 10, 11, 12	Prerequisite: Geometry or <b>Screened</b>
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Students apply and expand the concepts introduced in Financial Accounting 1. Both semesters must be taken in the same year to qualify for college credit.

<b>ENTREPRENEURSHIP</b>	<b>6343 – Sem.</b>	Gr. 10, 11, 12	Prerequisite: None
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Leadership and problem solving are essential to a successful entrepreneurial venture. In this course, students learn the fundamentals of business ownership, select an idea for a business, create a business plan for success, engage in computer simulations and learn to analyze business problems.

<b>HONORS BUSINESS LAW</b>	<b>6353 – Sem. 2</b>	Gr. 10, 11, 12	Prerequisite: None
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This course is for students who want to understand their legal rights and responsibilities in their personal and business lives. Students explore many important social and ethical issues through the topics of sources of law, felonies, negligence, the law of contracts, enforceable agreements, operation and discharge and remedies of law. The course includes videotape presentations, films, guest speakers, classroom dramatizations, and a courthouse visitation. Students have the option of earning college credit for this class.

<b>INTERNATIONAL BUSINESS SIMULATION</b>	<b>6403 – Sem.</b>	Gr. 11, 12	Prerequisite: Successful completion of one BIT elective
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With the current global economic crisis, everyone is becoming more aware that businesses need to operate from a solid model. This course will provide students with the chance to learn the effects and consequences of business decisions in a simulated environment. Through the IBS course, students will experience all facets of operating a global business - linked to other simulated businesses through technology; students conduct all operations necessary to run a business: finance, purchasing, marketing, web design, and human resources. Students should have completed at least one BIT elective prior to taking this course. Since this course simulates an ongoing business, students may elect to take IBS in either or both semesters and receive credit accordingly.

<b>PERSONAL FINANCE</b>	<b>3572</b> – Sem. 2	Gr. 11, 12	Prerequisite: None
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This course prepares students to make effective consumer decisions using basic math skills. Students use technology, both calculators and computers, to explore and study personal applications of money management, such as taxes, checking/savings accounts, and the purchasing of both a car and home. This course may be taken for mathematics or elective credit.

<b>BUSINESS MATHEMATICS</b>	<b>3581</b> – Sem. 1	Gr. 11, 12	Prerequisite: None
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This course prepares students using a mathematical foundation for the study of business. Students use technology, both calculators and computers, to explore financial applications of a business such as data analysis, inventory, management, sales and marketing. This course may be taken for mathematics or elective credit.

## FAMILY AND CONSUMER SCIENCES

Mt. Lebanon School District requires four (4) credits of electives in Arts and/or Humanities. The courses in this department meet the Arts elective graduation requirement.

<b>CONTEMPORARY LIFE MANAGEMENT</b>	<b>6503 – Sem.</b>	Gr. 9, 10, 11, 12	Prerequisite: None
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Students acquire the knowledge and skills to make decisions and manage personal resources to meet and balance their future personal, financial, family, work and community responsibilities. The “Baby Think it Over” parenting simulation is used as the foundation for studying children and families. Students will apply concepts and knowledge to a “real-life” simulation project.

<b>CHILD DEVELOPMENT 1</b>	<b>6513 – Sem.</b>	Gr. 10, 11, 12	Prerequisite: None
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This course is beneficial to students who are considering careers involving children, those currently providing care for children, or those considering parenthood in the future. Students learn theories and principles of physical, social, emotional, intellectual and moral development from birth through age four. Students will observe the development of real babies and young children in the classroom. An authentic performance task using "Baby Think It Over" is a part of the course. It is recommended, though not required, that Child Development 2 be taken no more than one year after completion of this course.

<b>CHILD DEVELOPMENT 2 (The Preschool Lab)</b>	<b>6522 – Sem. 2</b>	Gr. 10, 11, 12	Prerequisite: CD 1 & Teacher Approval
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This course is extremely beneficial for any student planning a career in fields such as teaching, psychology, childcare, nursing, medicine, social work or family studies. There is a 12 week on-site preschool for three and four year old children. Students will apply the theory, learned in Child Development 1. Students will plan and present all activities. Observation, guidance and communication skills are put into practice.

<b>FASHION ARTS</b>	<b>6533 – Sem.</b>	Gr. 9, 10, 11, 12	Prerequisite: None
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Students interested in a career in the fashion industry or who desire to learn the skill of sewing will benefit from this class. This introduction to basic clothing construction includes pattern and fabric selection, fitting and the use of equipment. Students will complete a minimum of two projects. Additional projects may be completed as time allows. A fieldtrip to a fabric store and other venues related to fashion is included.

<b>ADVANCED FASHION ARTS</b>	<b>6543 – Sem.</b>	Gr. 9, 10, 11, 12	Prerequisite: Fashion Arts & Teacher Approval
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In this self-directed course, students build upon clothing construction skills learned in Fashion Arts and explore textiles and fabrics, personalized color analysis, and computerized style analysis. Career opportunities in the fashion industry are investigated. In addition to two clothing projects, students complete a fabric identification project and a personal color and style portfolio. Course can be repeated for credit.

<b>FOOD &amp; NUTRITION</b>	<b>6551 – Sem. 1</b>	Gr. 9, 10, 11, 12	Prerequisite: None
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This is a course for the student who wants to learn how to choose and prepare food for a healthy diet. Students participate in labs that focus on the food groups of the Food Pyramid. These labs cover quick breads, yeast bread, pasta, rice, fruits and vegetables, meat, poultry, eggs, dairy products and desserts. Kitchen safety, food safety and proper use of kitchen equipment are emphasized.

<b>FOOD FOR TODAY</b>	<b>6562 – Sem. 2</b>	Gr. 9, 10, 11, 12	Prerequisite: None
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Students learn about contemporary food issues through classroom theory and cooking labs. Topics include heart-healthy diets, sports nutrition, weight control, vegetarian diets, convenience foods, labor saving appliances, eating out nutritiously, budgeting, and dining etiquette.

<b>INTERIOR DESIGN AND HOUSING</b>	<b>6583 – Sem. (5 day)</b> <b>6593 – Sem. (4day)</b>	Gr. 11, 12	Prerequisite: None
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This four or five day elective is structured to encourage a broad understanding of interior design and housing. Students will learn and apply the elements and principles of design with a hands-on room design project. A portfolio and style file of personal preferences in housing and design will be created. Speakers and a fieldtrip are incorporated to provide authentic experiences.

## TECHNOLOGY EDUCATION

Mt. Lebanon School District requires four (4) credits of electives in Arts and/or Humanities. The courses in the Technology Education Department meet the Arts elective graduation requirement.

<b>CAD FOR ARCHITECTURE &amp; ENGINEERING</b>	<b>6603 – Sem.</b>	Gr. 9, 10, 11, 12	Prerequisite: None
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This course is a study of computer assisted drawing (CAD) and its use in technical drawing which is used in the design, engineering, drafting and testing of objects and products. Students study the basic use of AutoCad software and its application in the preparation of multi-view and pictorial drawings. Areas of study will include “third angle” projection of views, dimensioning, auxiliary views, sectional views and assembly drawings. The student will develop proficiency in AutoCad as it relates to these drawing types.

<b>ENGINEERING DRAWING</b>	<b>6613 – Sem.</b>	Gr. 9, 10, 11, 12	Prerequisite: CAD
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In this course, students will use Inventor, a 3D modeling software, to create models of objects and to edit design variables. The associative functionality of the software allows students to simultaneously edit a model and its drawing. Topics include, Modeling Fundamentals, Geometric Concepts, Construction Tools, and Assembly Drawings. The Inventor software is widely used by colleges and universities in schools of engineering.

<b>ARCHITECTURAL DRAWING</b>	<b>6623 – Sem.</b>	Gr. 9, 10, 11, 12	Prerequisite: CAD
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Using AutoCad, students discover a broad foundation of common architectural drawing types, including floor plans, elevations and cross sections. Students also study residential building types, framing plans, and mechanical systems. This course concludes with architectural model making.

<b>HONORS ARCHITECTURAL &amp; ENGINEERING DESIGN</b>	<b>6643 – Sem.</b>	Gr. 10, 11, 12	Prerequisite: A-Draw or E-Draw
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This course emphasizes individually designed projects in architecture or engineering. Engineering Drawing students will continue their work with the Autodesk Inventor software to create designs of a mechanical nature, with emphasis on testing and analysis. Students coming from Architecture Drawing will continue to use AutoCad software to explore home designs and to create a set of drawings for a dream home.

<b>CISCO HP IT ESSENTIALS 1 (Computer Hardware and Software)</b>	<b>6651 – Sem. 1</b>	Gr. 9, 10, 11, 12	Prerequisite: None
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This course introduces students to information technology and data communications by studying the basics of computer hardware and operating system technologies. Students will develop the necessary problem solving and thinking skills to enter this field by building a computer, installing the operating system, adding peripherals, connecting the computer to a local area network and to the Internet. This is a hands-on, lab-oriented course that stresses laboratory safety and working effectively in a group environment.

<b>HONORS CISCO HP IT ESSENTIALS 2 (Computer Hardware and Software)</b>	<b>6662 – Sem. 2</b>	Gr. 9, 10, 11, 12	Prerequisite: Cisco HP IT Essentials 1
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This course is a continuation of the content and hands-on lab activities in IT Essentials I with the addition of an intensive introduction to multi-user, multi-tasking network operating systems. Characteristics of the Linux and Windows operating systems will be discussed. Students will explore a variety of topics including installation procedures, security issues, back up procedures and remote access. Successful completion of both courses helps prepare students to take the Computer Technology Industry Association (CompTIA) A+ certification examination. The IT Essentials courses serve as an introduction to basic networking and network operating systems. They are an excellent pre-cursor to CCNA. (Cisco Certified Network Associate)

<b>MANUFACTURING &amp; PRODUCTION 1</b>	<b>6673 – Sem.</b>	Gr. 9, 10, 11, 12	Prerequisite: None
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This is a technology oriented course for those who enjoy and benefit from hands-on experiences. The lab activities enable students to develop safe hand tool and machine tool skills as he/she discovers the technological applications of industrial materials. The student will transform natural resources, such as wood, into high-grade manufactured products. Students will progress at their individual rates. This is an entry level course without prerequisites.

<b>MANUFACTURING &amp; PRODUCTION 2</b>	<b>6682- Sem. 2</b>	Gr. 9, 10, 11, 12	Prerequisite: M & P 1
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Students extend the skills, knowledge, and work ethic developed in the entry level course described above. Students will design, construct, and finish professional quality products. Hand tool and machine tool skills will be improved as students employ advanced technological processes to complete individual projects. This course may be repeated for credit.

<b>GRAPHIC COMMUNICATIONS TECHNOLOGY 1</b>	<b>6713 – Sem.</b>	Gr. 9, 10, 11, 12	Prerequisite: None
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This course is an introduction to the processes and industries that create, develop, produce and disseminate products utilizing or incorporating word and pictorial images to convey information, ideas and feelings. Students will approach the study of communication through analytical thinking and problem solving activities. Units of study include photography and digital imaging, graphic design and layout, computer desktop publishing, digital prepress, screen and offset printing methods, and electronic publishing/web page making. The students in lab will make extensive use of computer technology as well as hands

on project activities. Computer software utilized includes Adobe Creative Suite, Illustrator, Photoshop, Macromedia; Flash & Dreamweaver.

<b>GRAPHIC COMMUNICATIONS TECHNOLOGY 2</b>	<b>6723</b> – Sem.	Gr. 9, 10, 11, 12	Prerequisite: GCT 1
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Students will explore in more depth the areas covered in the beginning course while increasing skill and understanding in graphic communication. More emphasis is placed on complex problems to solve in imaging, design, drawing, layout, prepress and the printing of projects. Students will make extensive use of computer technology as well as hands on project activities. Computer software utilized includes Adobe Creative Suite, Illustrator, Photoshop, Macromedia; Flash & Dreamweaver.

<b>GRAPHIC COMMUNICATIONS TECHNOLOGY 3</b>	<b>6733</b> – Sem.	Gr. 10, 11, 12	Prerequisite: GCT 2
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Students will experience advanced and more complex design and production problem solving in communications and printing. Students will produce various communications and printing projects. Teamwork and planning will be expected. Skills and concepts learned in the previous courses will be a foundation and basis for more independent research, problem solving and class activities. This course may be repeated for credit.

<b>APPLIED POWER TECHNOLOGY</b>	<b>6763</b> – Sem.	Gr. 9, 10, 11, 12	Prerequisite: None
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In this exploratory course in transportation technology, students experience units in mechanical, electrical, fluid, and jet powered systems as they apply scientific principles to the design and construction of transportation projects. This hands-on course meets the needs of students of all ability and background levels.

<b>APPLIED POWER TECHNOLOGY 2</b>	<b>6653</b> – Sem.	Gr. 9, 10, 11, 12	Prerequisite: Applied Pwr.
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Students in this advanced transportation technology course will deepen their understanding of mechanical, electrical, and fluid systems. Hands-on, laboratory learning will occur with projects utilizing the small gasoline engine and robotics. Through this course, students will also have the opportunity to participate in the projects and competitions offered by the Technology Student Association.

<b>APPLIED ENGINEERING 1</b>	<b>6851</b> – Sem. 1	Gr. 9, 10, 11, 12	Prerequisite: None
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This exploratory course in the realm of engineering is of interest to all students who wish to investigate a professional career in our technological society. This course stresses the direct, hands-on application of science. Students use engineering concepts to design solutions to problems. Students process wood, metal and plastic as they convert their designs into working projects.

<b>HONORS APPLIED ENGINEERING</b>	<b>6862</b> – Sem. 2	Gr. 9, 10, 11, 12	Prerequisite: A E 1
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This course is designed for students who are considering a career in engineering or some other technical area. It is also appropriate for any student who desires advanced study in technological topics. This is an honors course that enables students to use their natural abilities and the concepts and skills from Applied Engineering I to solve abstract problems in a wide variety of technical areas. This course may be repeated for credit.

## FINE ARTS

Mt. Lebanon School District requires four (4) credits of electives in Arts and/or Humanities. The courses in the Fine Arts Department meet the Arts and/or Humanities elective graduation requirements. **4 day a week electives (with the exception of Dance) are only for juniors and seniors taking lab sciences.**

<b>HUMANITIES: CLASSICAL GREECE – MIDDLE AGES</b>	<b>7013 – Sem.</b>	Gr. 10, 11, 12	Prerequisite: None
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This course focuses on defining and understanding common human traits and characteristics by looking at the artistic works of historical cultures. Are there traits shared by prehistoric cave-painters, sculptors of Ancient Greek city-states, and the builders of medieval cathedrals? Can those similarities be found and described by looking at the artistic products of each of those periods? What makes us human, and like (or unlike) those who provided the artistic foundations of Western Culture? Students will view, explore, create, and interpret art works spanning from cave paintings to Gothic art and architecture, including architecture, sculpture, paintings, literature, music, art, and philosophy. Through readings, hands-on activities, discussions, and debates, each era and its artistic products will be measured against those cultures around it and to students' developing views of our modern world.

<b>HONORS HUMANITIES: CLASSICAL GREECE – MIDDLE AGES</b>	<b>7023 – Sem.</b>	Gr. 10, 11, 12	Prerequisite: <b>Screened</b>
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Honors level students will earn additional quality points (QPA) based on their work at a higher cognitive and analytical level. In addition to the exploration of topics studied by students enrolled in Academic Humanities, Honors Humanities students will perform small group activities and independent analysis and interpretation of various works of philosophy, literature, music, theatre and visual arts. This advanced course can help to prepare students for the College Level Examination Program (CLEP) test in Humanities and will assist in preparing students for Advanced Placement testing by reinforcing knowledge of European and American History, and reviewing major works of literature.

<b>HUMANITIES: RENAISSANCE – 20<sup>TH</sup> CENTURY</b>	<b>7033 – Sem.</b>	Gr. 10, 11, 12	Prerequisite: None
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This course focuses on defining and understanding common human traits and characteristics by looking at the artistic works of historical and current cultures. In Humanities II, students will develop a definition of 'being human' through reading, viewing, exploring, creating, discussing, and debating the merits and qualities of artistic works spanning from 1350 to today, including literature, paintings, sculpture, music, architecture, film, and dance. Does our current art reflect the same ideas and insights as art work from the days of Shakespeare? How does modern architecture demonstrate similar ideas and beliefs as the buildings built during the Victorian era? By exploring the similarities and differences in the human response to the world around it, can we define humanity? How does the art of these periods confirm or deny the accuracy of our definition? Primary periods of study include: the Renaissance in Europe, the Baroque period during the Seventeenth Century, the Enlightenment of the Eighteenth Century, the Romantic Era, the Modern Era, and contemporary cultures. Students will gain insight into the development of man's artistic perspective as they continue to develop their own aesthetic values. Humanities 1: Classical Greece-Middle Ages is not a requirement, but is strongly encouraged.

<b>HONORS HUMANITIES: RENAISSANCE – 20<sup>TH</sup> CENTURY</b>	<b>7043 – Sem.</b>	Gr. 10, 11, 12	Prerequisite: <b>Screened</b>
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Honors level students will earn additional quality points (QPA) based on their work at a higher cognitive and analytical level. In addition to the exploration of topics studied by students enrolled in Academic Humanities, Honors Humanities students will perform small group activities and independent analysis and interpretation of various works of philosophy, literature, music, dance, theatre, film, and visual arts. This advanced course can help to prepare students for the College Level Examination Program (CLEP) test in Humanities and will assist in preparing students for Advanced Placement testing by reinforcing knowledge of literature, European History, and American History.

<b>DANCE 1</b>	<b>7053 – Sem. (5 day)</b> <b>7063 – Sem. (4 day)</b>	Gr. 9, 10, 11, 12 Gr. 9, 10, 11, 12	Prerequisite: None
<b>DANCE 2</b>	<b>7073 – Sem. (5 day)</b> <b>7083 – Sem. (4 day)</b>	Gr. 9, 10, 11, 12 Gr. 9, 10, 11, 12	Prerequisite: Dance 1
<b>DANCE 3</b>	<b>7093 – Sem. (5 day)</b> <b>7103 – Sem. (4 day)</b>	Gr. 10, 11, 12 Gr. 10, 11, 12	Prerequisite: Dance 2

**\*Students taking lab sciences should select a 4 day course; others must select a 5-day course.** In the introductory Dance 1 course, students learn the fundamental principles of dance styles and techniques. Objectives include the study of fundamental foot, arm and body positions; careful attention to correct body placement and posture; proper execution of barre exercises; and mastery of basic steps. Instruction in Dance 2 promotes refinement of technique and includes advanced center floor stretching and advanced combinations through a variety of dance styles and techniques. In Dance 3, students explore the art form of dance and learn the analysis of ballet, jazz, musical theatre and modern dance techniques, steps, combinations and dance vocabulary. Students in all three levels choreograph combinations and compositions for in-class performance.

Dance courses fulfill the physical education requirement for 9<sup>th</sup> and 10<sup>th</sup> grade. Students can earn their Physical Education credit by taking Dance 1, 2 and Dance 3. Students are required to register for one semester of dance freshman year and two semesters sophomore year. At the end of the year, students fulfill their Physical Education requirement for 10<sup>th</sup> grade and earn 1 (one) Fine Arts credit. Students may repeat Dance 3 for credit. Specific clothing and shoes are required.

<b>DANCE COMPANY</b>	<b>7160</b> – Full Year	Gr. 9, 10, 11, 12	Prerequisite: Audition
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Dance Company fulfills the physical education requirement for 9<sup>th</sup> and 10<sup>th</sup> grade students. After extensive auditions, selected students become members of the Mt. Lebanon High School Dance Company which meets the needs of advanced students to extend and perfect their dance skills. Students develop technical proficiency and detail of movement necessary for performance along with the opportunity to choreograph. Dance courses fulfill the 9<sup>th</sup> and 10<sup>th</sup> grade physical education requirement. Specific clothing and shoes are required.

<b>CONCERT CHOIR</b>	<b>7200</b> – 5 days/week – Full Year <b>7210</b> – 4 days/week – Full Year	Gr. 9, 10, 11, 12 Gr. 11, 12	Prerequisite: None
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Any student who wishes to sing with an organized choral ensemble may elect this course without audition. Although no previous singing experience is required, experienced musicians are encouraged to register. Students will continue their musical development through intermediate and advanced study of vocal technique, choral technique, SATB part-singing, sight reading, and musicianship/aesthetics through the study and performance of a varied choral repertoire. The ensemble performs at school and exchange concerts, festivals, competitions and special events.

<b>CONCERT BAND</b>	<b>7230</b> – 5 days/week - Full Year <b>7240</b> – 4 days/week - Full Year	Gr. 9, 10, 11, 12 Gr. 11, 12	Prerequisite: None
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Concert Band is open to students who play their instruments proficiently. Learning music of all styles, this ensemble performs at school and exchange concerts, festivals, competitions, and special events. Special ensembles are organized based on student interest—brass choir, woodwind choir, percussion ensemble, and solo ensemble groups. Students are encouraged to study privately. **All students in concert band must participate in Marching Band unless exempted.** Reasons for exemption are: (1) physical disability, (2) playing an instrument not appropriate for marching, and (3) active athletic participation in a conflicting fall school WPIAL sport.

<b>WIND ENSEMBLE</b>	<b>7250</b> – 5 days/week -- Full Year <b>7260</b> – 4 days/week – Full Year	Gr. 9, 10, 11, 12 Gr. 11, 12	Prerequisite: <b>Audition</b>
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Wind Ensemble is an advanced band class which will offer more advanced students the opportunity to study and perform great literature composed specifically for this medium. Admittance to this course would be by audition in the spring for students in grades 8 – 11. All students interested in Wind Ensemble should elect **Concert Band** on their course selection sheet in January. After auditions, students who are selected for Wind Ensemble will be scheduled accordingly. **All students in Wind Ensemble must participate in Marching Band unless exempted. Exemption reasons listed in Concert Band course descriptions.**

<b>HONORS WIND ENSEMBLE</b>	<b>7300</b> – Full Year	Gr. 10, 11, 12	Prerequisite: see course description
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Students who desire honors wind ensemble must see the band director for pre-approval **prior** to scheduling the course and must submit a memo of understanding signed by the student and their parent or guardian. Honors credit will be granted for meeting all course requirements for wind ensemble and successfully completing additional activities/projects each semester. Level changes between Honors and Academic Orchestra are only permitted in the first six weeks of the first semester. **All students in Honors Wind Ensemble must participate in Marching Band unless exempted. Exemption reasons listed in Concert Band course descriptions.**

<b>ORCHESTRA</b> <b>-STRINGS</b> <b>-WOODWINDS, BRASS, PERCUSSION,</b> <b>PIANO</b>	<b>7270</b> – Full Year <b>7280</b> – Full Year	Gr. 9, 10, 11, 12 Gr. 9, 10, 11, 12	Prerequisite: Prior instruction (Strings) Audition (Woodwind, Brass, Percussion, Piano)
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All string students are eligible to sign up for Orchestra. Woodwind, brass, percussion and piano players are selected by audition. At the discretion of the director, re-audition may be necessary. Course work includes daily rehearsals, playing tests, written tests, the school musical, and required evening rehearsals and performances. Chamber music experiences are an outgrowth of the orchestra class. Orchestra is not offered as a semester elective.

<b>HONORS ORCHESTRA</b>	<b>7290</b> – Full Year	Gr. 10, 11, 12	Prerequisite: See course description
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Students who desire honors orchestra must see the orchestra director for pre-approval **prior** to scheduling the course and must submit a memo of understanding signed by the student and their parent or guardian. Honors credit will be granted for meeting all course requirements for orchestra and successfully completing additional activities/projects each semester. Level changes between Honors and Academic Orchestra are only permitted in the first six weeks of the first semester.

<b>MUSIC TECHNOLOGY 1</b>	<b>7313</b> – Sem.	Gr. 9, 10, 11, 12	Prerequisite: None
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Music Technology 1 offers students the opportunity to compose and record their own original songs using computers, software, keyboards, and the music technology recording rooms. Basic song writing and music theory concepts will be taught. While all musicians are encouraged to enroll, no musical background or experience is required. All instrumentalists and vocalists will benefit from the opportunity to create original music. Students will learn the basics of MIDI and Audio Sequencing using Finale and Sonar software in this course.

<b>MUSIC TECHNOLOGY 2</b>	<b>7323</b> – Sem.	Gr. 9, 10, 11, 12	Prerequisite: Music Technology 1
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Music Technology 2 will continue with the skills learned in Music Technology 1. Students will use more advanced techniques to compose and arrange music and CD's will be produced of original music. Triton Keyboard workstations will be utilized for group composition projects.

<b>MUSIC TECHNOLOGY 3</b>	<b>7330</b> – 5 days/week – Full Year <b>7340</b> – 4 days/week – Full Year	Gr. 10, 11, 12 Gr. 11, 12	Prerequisite: Music Technology 1 and Music Technology 2
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Using skills learned in Music Technology 1 and 2, students create and record original music using the latest computer technology and music hardware. Students gain further proficiency in MIDI, sequencing, music notation, computer assisted theory and ear training, and composition. Students have opportunities to produce music for TV, theatre, and dance classes as well as community programs. This course may be repeated for credit.

<b>ADVANCED PLACEMENT MUSIC THEORY</b>	<b>7350</b> - Full Year	Gr. 10, 11, 12	Prerequisite: One year of high school music course or ensemble
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This course encompasses all the elements of music including melody, harmony, rhythm and meter, and will include the opportunity to use the computer software and keyboards for a hands-on experience. Scales, modes, intervals, chord progressions, the major/minor system, transposition, composition, rhythmic and harmonic dictation, and sight-singing will be major topics of study. It is strongly recommended that students have some background in music, to be considered for this course; therefore, students must complete a full year of a music course as a prerequisite. This course can help to prepare students for the Advanced Placement (AP) test in music theory. As this course is the equivalent of a first-year college course in music theory, students should expect to spend 1 to 2 hours a night outside of class on homework, projects and other course requirements.

<b>TECHNICAL THEATRE COMPANY (Theatre Arts &amp; Design)</b>	<b>7433</b> – Sem. (5 days/wk) <b>7443</b> – Sem. (4 days/wk)	Gr. 9, 10, 11, 12 Gr. 11, 12	Prerequisite: None
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Using the evening productions for technical and design skill development, this course prepares students for production crews. Students learn equipment upkeep and safety for all auditorium and theatre events. Crew sessions are required after school and on Saturdays prior to production so that set construction and painting, costume and makeup, light and sound can be created based on class research and design. Qualified, competent students, approved by the instructor, are eligible to work as salaried members of the Community Service Stage Crew. This course may be repeated for credit.

<b>COMMUNITY SERVICE STAGE CREW (3 day)</b>	<b>7463</b> – Sem.	Gr. 9, 10, 11, 12	Prerequisite: None
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Students in this crew work under the direction of a district sponsor who directs their activities to meet the producing organization's needs. In this hands-on course, students develop the technical knowledge and working skills required to operate the auditorium and fine arts theatre stages. Upon successful completion of the course work, written tests, and demonstration of technical skills, students may be certified to work on the CSSC as salaried members. This course may be repeated for credit.

<b>SPEECH COMMUNICATION</b>	<b>7503</b> – Sem.	Gr. 9, 10, 11, 12	Prerequisite: None
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Students in this semester-long course will gain poise and confidence as they develop and demonstrate oral communication skills through a series of activities, discussions, presentations and projects. Specific areas of concentration include: message construction, research and evidence, critical listening, delivery and presentations skills, ethical issues in public communication, argumentation and persuasion, job and college interviewing, and overcoming communication apprehension.

<b>THEATRE ARTS 1</b>	<b>7523</b> – Sem.	Gr. 9, 10, 11, 12	Prerequisite: None
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Students will explore aspects of acting techniques, technical theatre terminology, storytelling and improvisation, vocal production (including projection and articulation), theatre history (Greeks), and a final performance unit. Students apply these concepts in classroom performances.

<b>THEATRE ARTS 2</b>	<b>7533</b> – Sem.	Gr. 9, 10, 11, 12	Prerequisite: Theatre Arts 1
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Students are introduced to scene work. Specific areas of concentration include spontaneous improvisation, emotional development of a character, monologue writing, vocal characterization, theatre history (Elizabethan), and participation in a final performance unit.

<b>THEATRE ARTS 3</b>	<b>7543</b> – Sem.	Gr. 10, 11, 12	Prerequisite: Theatre Arts 2
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Students continue to develop knowledge and skills in acting and directing. They refine techniques in physical development and stage movement, monologue analysis and performance, script reading and analysis, designing costumes and lighting cues, production books, and participate in a final performance unit by directing a ten-minute play for classroom performance.

<b>DAYTIME THEATRE COMPANY</b>	<b>7573</b> – Sem.	Gr. 11, 12 Gr. 10, 11, 12	Prerequisite: Theatre Arts 3
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Students build on the acting and technical skills acquired in the previous theatre classes. Using published short plays, scenes and monologues, the actors plan, rehearse and perform for a daytime production. Students participate in units designed develop audition and directing techniques, as well as make-up skills. This course may be repeated for credit.

<b>EVENING THEATRE COMPANY</b>	<b>7583</b> – Sem.	Gr. 11, 12	Prerequisite: Daytime Theatre
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Theatre Company performs the evening production for the Theatre Department. Students have the opportunity to audition for parts for this production. Students also perform a variety of scripts and a daytime production for the general public and the student body at large. **After-school and evening rehearsals are required.** This course may be repeated for credit.

<b>ART 1</b>	<b>7603</b> – Sem. (5 days/wk)	Gr. 9, 10, 11, 12	Prerequisite: None
	<b>7613</b> – Sem. (4 days/wk)	Gr. 11, 12	

Students learn the principles of design, experience a variety of artistic techniques, and develop technical skills in areas such as jewelry, painting, relief, fiber, hand building, pottery, sculpture, sketching, drawing, etc. Students work with tools and art production equipment in both the 2D and 3D studios. The course provides varied experiences for a wide range of ability levels.

<b>ART 2</b>	<b>7633</b> – Sem. (5 days/wk)	Gr. 9, 10, 11, 12	Prerequisite: Art 1
	<b>7643</b> – Sem. (4 days/wk)	Gr. 11, 12	

Instruction in this course facilitates the development of 2-D and 3-D art products. During the 2-D experience, major emphasis is on perspective, shading, and painting. In the 3-D experience, students learn communication through use of clay, plaster and metal. The course provides varied experiences for a wide range of ability levels.

<b>2-D STUDIO ARTS</b>	<b>7653</b> – Sem. (5 days/wk)	Gr. 10, 11, 12	Prerequisite: Art 2
	<b>7663</b> – Sem. (4 days/wk)	Gr. 11, 12	

Students experience a wide range of problem solving through varied wet and dry media. Experiences may include printmaking, painting, and drawing and provide opportunities for the collection of art for a portfolio. This course may be repeated for credit. This course is a prerequisite for Honors 2-D Studio Arts and may be repeated after Honors 2-D Studio Arts.

<b>HONORS 2-D STUDIO ARTS</b>	<b>7683</b> – Sem.	Gr. 10, 11, 12	Prerequisite: Art 2 <b>and</b> art portfolio review
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Students continue to develop and research areas of art. Some units will be mutually agreed upon by the instructor and student; the teacher may plan other units for the benefit of the individual student. The portfolio required for this course may be useful for college admission purposes. Independent visits to galleries and exhibitions will be required. This course may only be taken for two (2) semesters of honors credit, after which students may return to the academic level of 2-D Studio Arts.

<b>ADVANCED PLACEMENT STUDIO ART</b>	<b>7690</b> – Full Year	Gr. 10, 11, 12	Prerequisite: Art 2 <b>and</b> art portfolio review
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This course, which follows the College Entrance Examination Board (CEEB) syllabus, is intended for highly motivated students who are seriously interested in the study of art beyond high school. AP level work involves significantly more commitment and accomplishment, and students are required to work outside the classroom and beyond scheduled periods including independent trips to museums and galleries. Students have the option to submit a 2-D portfolio to CEEB for evaluation at the end of the school year. As this course is the equivalent of a first-year college course in studio art, students should expect to spend 1 to 2 hours a night outside of class on homework, projects and other course requirements.

<b>CERAMICS (formerly 3-D Studio Arts)</b>	<b>7703</b> – Sem. (5 days/wk)	Gr. 10, 11, 12	Prerequisite: Art 2
	<b>7713</b> – Sem. (4 days/wk)	Gr. 11, 12	

Students learn the technical and aesthetic aspects of working with clay. An in-depth study of the nature of clay and glazes allows students to express their ideas with this exciting material. Sculpture, coil, slab and wheel throwing are some of the topics covered. Students learn the building and firing techniques of high fire and low fire clay bodies. Skills are taught for using the potter's wheel as a vehicle for creative expression. This course may be repeated for credit.

<b>HONORS CERAMICS (formerly Honors 3-D Studio Arts)</b>	<b>7733</b> – Sem.	Gr. 10, 11, 12	Prerequisite: Art 2 <b>and</b> art portfolio review
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Once approved for the course, the student will plan a course of study with the instructor. The course may be taken for two (2) semesters of honors credit, after which students may return to the academic level of Ceramics.

<b>MEDIA ARTS &amp; PRODUCTION 1</b>	<b>7743</b> – Sem.	Gr. 9, 10, 11, 12	Prerequisite: None
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Students will produce media by creating short videos, advertisements, public service announcements, talk shows, and broadcast news shows. For each type of video, students will examine the design, purpose, and execution to increase awareness about the impact of media on our culture and ourselves. Students will learn the basics of digital camcorder operation and non-linear editing. Working as a collaborative crew, taping responsibly, and creativity are emphasized.

<b>MEDIA ARTS &amp; PRODUCTION 2</b>	<b>7753</b> – Sem.	Gr. 9, 10, 11, 12	Prerequisite: TV 1
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Media Arts and Production 2 build upon basic equipment and production competencies. Students will explore the responsibilities of creative control as they produce original digital videos of varying genres. Projects will be completed as a group and independently. Several kinds of videos, like fictional narratives, music videos, and action sequences will be required, enabling students to build a competitive portfolio. Pre-and Post-production skills, ability to offer a variety of critical responses and using video for self expression will be emphasized.

<b>ADVANCED VIDEO PRODUCTION</b>	<b>7783</b> – Sem. (5 days/wk)	Gr. 10, 11, 12	Prerequisite: TV 2 <b>and</b> teacher recommendation
	<b>7793</b> – Sem. (4 days/wk)	Gr. 11, 12	

Students are focused, independent workers who enroll in the class to explore advanced editing techniques and the creation of motion graphics. This course requires a great deal of self motivation, time management and creativity. Projects will be both the teacher's and students' design. Students are encouraged to take on leadership roles and work together as a team to produce projects of exceptional quality. Students will watch and engage in critical response to films and videos. Final edits are to be broadcast quality, and will be aired on Channel 19. Students will also pursue other exhibition opportunities. This course can be repeated for credit.

<b>DIGITAL FILM MAKING</b>	<b>7803</b> – Sem. (5 days/wk)	Gr. 10, 11, 12	Prerequisite: Advanced Video Production
	<b>7813</b> – Sem. (4 days/wk)	Gr. 11, 12	

Digital Film making is designed for students who have an interest in screenplay writing and directing narrative videos. Students will write, produce, direct, tape, and edit a five-minute and fifteen-minute digital film. All of the steps to bring a film to fruition will be taught and used including production schedules and appropriate crew responsibilities. Students will participate in mini workshops for plot development, characterization, lighting, camera work, using digital effects and dramatic acting. Students will participate in screenplay and film critiques. Near the conclusion of the course, students will participate in an interview discussing their Digital Film Making experience which may air, along with a project created by them, on channel 19. Students will also pursue other exhibition opportunities. It is suggested that the students take this course two consecutive semesters. This course can be repeated for credit.

## HEALTH AND PHYSICAL EDUCATION

Mt. Lebanon School District requires one credit of physical education for graduation. Students must complete the one-semester, four days/week course in grade 9 and the two-day courses during both semesters in grade 10. Students may elect physical education courses in grades 11 and 12. Students may also earn physical education credits through the Fine Arts dance courses. However, students must complete one semester as a freshman and two semesters as a sophomore to meet the physical education requirements.

The district also requires that students complete a one-semester health course. Students fulfill the state-mandated graduation project through successful completion of a personal health project in the required health course.

<b>HEALTH &amp; WELLNESS</b>	<b>7903 - Sem.</b>	Gr. 10, 11, 12	Prerequisite: None
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Required during one of the last 5 semesters, Health is a course in self-awareness and self-analysis that challenges the student to examine their lifetime choices and decisions. There is a strong emphasis on holistic wellness including the physical, mental, emotional and social components. Units of study include emotional wellness, stress management, nutrition, exercise, disease prevention and immunity. The unit in emergency aid includes instruction and certification in CPR. Social problems of alcohol and other drugs are presented, and human sexuality is explored in depth. Parents should note that a degree of social and emotional maturity is required to participate comfortably in the course; therefore, the decision as to which semester the course is selected should be made after careful consideration of the individual student's level of maturity.

<b>PHYSICAL EDUCATION 9 (4 day)</b>	<b>7923 – Sem.</b>	Gr. 9	Prerequisite: None
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In this one semester course which meets four days per week, students learn and engage in lifelong skills of fitness and wellness.

<b>PHYSICAL EDUCATION 10 (2 day)</b>	<b>7930– Full Year</b>	Gr. 10	Prerequisite: PE 9
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In this year long program which meets two days per week, students will apply life-long skills of fitness and wellness, building upon skills learned in the 9<sup>th</sup> grade PE course.

<b>ADAPTIVE PHYSICAL EDUCATION 9 (4 day)</b>	<b>7943 – Sem.</b>	Gr. 9	Prerequisite: None
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This is a one semester course which meets four days per week and provides adapted activities to enable students with special needs to meet learning standards for physical education.

<b>ADAPTIVE PHYSICAL EDUCATION 10, 11, 12 (2 Day)</b>	<b>7953 – Sem.</b>	Gr. 10, 11, 12	Prerequisite: None
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This two day per week program provides adapted activities to enable students with special needs to meet learning standards for physical education.

<b>SEASONAL SPORTS (2 day)</b>	<b>7963 – Sem.</b>	Gr. 11, 12	Prerequisite: PE 10
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This elective course meets two days per week. Students learn skills and techniques utilized in activities such as tennis, football, speedball, soccer, ultimate Frisbee, field hockey, softball, basketball, and volleyball.

<b>PERSONAL FITNESS (2 day)</b>	<b>7973 – Sem.</b>	Gr. 11, 12	Prerequisite: PE 10
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This elective course meets two days per week. Students experience an enhancement of fitness components including Aerobic/cardio, strength training, flexibility, body composition, muscular endurance, nutritional analysis and goal setting.

<b>AMERICAN RED CROSS LIFEGUARDING COURSE (2 DAY)</b>	<b>7983 – Sem. 1 – Sem. 2</b>	Gr. 11, 12	Prerequisite: PE 10
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This course is designed to give students the proper and effective training skills in compliance with the American Red Cross guidelines. Students will be able to recognize hazardous situations to prevent injury. They will learn how to supervise swimmers, minimize dangers, educate facility users about safety, enforce rules and regulations and be trained to provide assistance and perform rescues. Course completion requires an endurance skills test, a written exam and a rescue skills evaluation test. All students will also be required to pay the American Red Cross fee for books, materials, and certification cards totaling \$85.00. A Lifeguard Certification from the American Red Cross is applicable for three years allowing the opportunity for employment and personal growth.

## PARKWAY WEST CAREER AND TECHNOLOGY CENTER

<b>TECHNICAL AND CAREER EDUCATION</b>	<b>8600 – Full Year</b>	Gr. 10, 11, 12	Prerequisite: Approval by Parkway and district
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Students wishing to participate in extensive study of a technical area may pursue application to this school. Students accepted into the program are transported by the district to Parkway for daily half-day sessions through which they earn general elective credits toward graduation at Mt. Lebanon High School. Students also attend the high school for daily half-day sessions for instruction in core subjects such as English, mathematics, science, social studies and physical education. At Parkway, students develop technical skills to obtain and hold jobs in a variety of fields. Attendance in the Parkway program does not preclude college admission following graduation.

### Selecting a Career Major at Parkway West Career and Technology Center:

#### Note:

Enrolled students may be eligible to earn articulated college credit from the following post-secondary institutes:

Belmont Technical College	Butler County Community College (BC3)
California University (Cal U)	Community College of Allegheny County (CCAC)
Empire Education Group	ITT Technical Institute
New Castle School of Trades	Pennsylvania College of Technology
Pittsburgh Culinary Arts Institute	Pittsburgh Technical Institute (PTI)
Rosedale Technical Institute	Triangle Tech, Inc.
University of Northwest Ohio	

Scholarships from the above, other post-secondary institutes, and from industry may also be available.

#### **AUTO BODY REPAIR**

Auto Body Repair is certified by the National Automotive Technician's Education Foundation (NATEF) and provides instruction in the most current techniques for repair and replacement of damaged automobile parts. Learn to repair collision damage and to replace quarter panels, door skins, and fenders. Curriculum also includes painting, MIG welding, collision repair, frame straightening, and damage analysis. Gain experience in custom painting, mixing and tinting paint, computerized estimating, and detailing. Practical experience is also provided through a full-service auto body repair shop. Students will have the opportunity to earn PPG Blue Level Paint and I-Car MIG Welding certifications and be eligible to earn I-Car Points.

#### **AUTOMOTIVE TECHNOLOGY**

Automotive Technology is certified by the National Automotive Technician's Education Foundation (NATEF) and affiliated with all of the major automotive manufacturers through Automotive Youth Educational Systems (AYES). Students prepare to take the Pennsylvania State Inspection License examination. Learn basic vehicle maintenance, repair, and replacement of drive trains, brake systems, chassis components, and fuel and electrical systems. Special emphasis is placed on troubleshooting and engine performance via the use of state-of-the-art electronic diagnostic equipment. Practical experience is also provided through Parkway's repair shop. Qualify to become an apprentice working under mentor technicians. You will be given the opportunity to earn Automotive Youth Educational Systems (AYES), National Institute for Automotive Service Excellence (ASE), and Coordinating Committee for Automotive Repair (CCAR) certifications.

#### **CONSTRUCTION TECHNOLOGY**

First-year students spend nine weeks in each of the following four courses offered in the Construction Technology Cluster: *Carpentry, Electrical Construction and Maintenance, Heating, Ventilation, Air-Conditioning and Refrigeration, and Masonry*. Upon successfully completing the rotation, second-year students may choose to pursue certification in one of the following areas:

#### **HEATING, VENTILATION, AIR-CONDITIONING AND REFRIGERATION**

Heating, Ventilation, Air-Conditioning, and Refrigeration, which has been newly renovated with state-of-the-industry equipment, gives instruction in basic and advanced electrical theory, troubleshooting and repair of residential and commercial heating, air conditioning, and refrigeration systems. Students will be given the opportunity to earn a 10-hour or 30-hour Occupational Safety and Health Administration (OSHA) Construction card.

#### **MASONRY**

Masonry offers instruction in the construction of brick and block walls for residential or commercial structures. Learn techniques of ornamental masonry, ceramic tile, and natural or cultured stone installations. New to the program, students will also be introduced to versa-lok, an interlocking drywall system. Students will be given the opportunity to earn a 10-hour or 30-hour Occupational Safety and Health Administration (OSHA) Construction card and may have a greater opportunity to join the Masonry Union (BAC) after graduation.

#### **COSMETOLOGY**

Cosmetology prepares students to perform technical services including all aspects of hair, skin/nail beautification, and personal maintenance. These skills are supported and reinforced with theoretical background including sanitation, chemistry, anatomy, and physiology, as well as, structure, function, and disorders of the hair, skin, nails, and scalp. Cosmetology develops a well-rounded professional, who practices real-life industry work experiences in Parkway's public salon. Utilizing an

integrated approach to teaching and learning, students will acquire interpersonal relations, a professional attitude, and career fundamentals along with technical knowledge and skills. The learned techniques and abilities obtained in the program are practiced and tested on mannequins, classmates, and the general public. Upon completion of the 1,250 hour state regulated course requirement, the students become eligible to take the state licensing exam. After successfully passing both the theory and practical portions of the exam, the students will become licensed cosmetologists, ready to enter industry or continue on to further their education. In addition, students will have the opportunity to earn a manicure's license and CPR certification.

### **CULINARY ARTS**

Culinary Arts provides practical instruction in the preparation of banquet, buffet, and a la carte styles of food preparation. Practical experience is provided through the operation and management of our in-house, full-service restaurant. Operate beyond the restaurant environment to provide goods and services for Parkway's food store where pastries and select meats are sold. Design a cake, ice sculpt, and prepare several different types of cuisine. First-year students will spend one school year in Culinary Arts Level I. Second and third-year students will advance into Culinary Arts Levels II and III. Senior students who have at least completed two-years of Culinary Arts will have the opportunity to earn the National Restaurant Association's ServSafe certification.

### **DRAFTING AND DESIGN**

Drafting and Design provides instruction in the basic techniques necessary to prepare detailed drawings for projects in the mechanical, architectural, structural, piping, mapping, and electrical fields. Learn traditional drafting procedures utilizing standard drawing methods and advance to the application of AutoCAD and other Computer Aided Drafting (CAD) programs. Get to know the proper care and use of the tools and equipment of the trade such as scales, templates, compasses, technical pens, reproduction equipment, personal computers, plotters, and printers. Students may be eligible to participate in California University's 'Cal U in the High School' program and earn up to 6 college credits.

### **HEALTH ASSISTANT**

Health Assistant teaches anatomy, physiology, and medical terminology. Special attention is given to medical office examinations, treatment, and patient care. There are a variety and many different levels of healthcare career options. Due to this, students in this program participate in a wide-range of real-world clinical and job shadow experiences at many different local healthcare providers such as hospitals, doctor's offices, and other medically related facilities. Clinical experiences may include: child care, long-term care, emergency nursing, recovery room nursing, radiology, physical/occupational therapy, and/or lab technician. Prepare for the Pennsylvania State Nurse Aid Registry and Home Health Aide Certification exams. Students will have the opportunity to complete the American Heart Association "CPR for Health Care Providers" course.

### **PRECISION MACHINING/ ROBOTICS**

In this course students learn how to measure and shape metal, plastics, and other substances in order to manufacture a variety of products including several different types of robots. Students will learn how to read blueprints, and how to use mathematics including algebra, geometry, and trigonometry. They will also be taught how to lay out their work, set up machines, and choose proper feeds and speeds for machining various shapes, sizes, and materials. Machines included in the curriculum include: lathes, milling machines, drill presses, grinders, and EDM (electro-discharge) machines. Advanced students learn computer-aided drafting (AutoCAD) and how to program, set-up, and operate CNC (computer-numeric controlled) lathes and milling machines. In addition, this course will provide instruction in robotic systems. In this part of the course students will conduct hands-on experiments in the latest robotic technology, using motors, servos, sensors, gears, pulleys, and switches. This course will include aspects of electro-mechanical engineering from planning and design to assembly, programming, testing, and improvement.

### **INFORMATION TECHNOLOGY**

First-year students spend four and a half weeks in each of the four courses offered in the Information Technology Cluster: *Business Technology*, *Computer Technology*, *Digital Multimedia Technology*, and *Information Technology Essentials*. Upon successfully completing the rotation, students may choose to pursue certification in one of the following areas:

### **BUSINESS TECHNOLOGY**

Business Technology offers all that is needed to acquire office and business credentials. Develop solutions to everyday business problems and complete projects using Microsoft Office software applications. Simulate the working world as closely as possible by creating an entrepreneurial business, create professional business cards for a program client, and implement learned skills utilizing different marketing phases by organizing a trade show. Students maximize their employment opportunities by having the opportunity to earn the Microsoft Certified Application Specialist (MCAS) Certification.

### **DIGITAL MULTIMEDIA**

Digital Multimedia Technology provides instruction in basic graphic design using computers and design software such as Illustrator, Acrobat, Photoshop, InDesign, and Dreamweaver. Graphic animation utilizing Flash is also an integral component of this program. Digital Multimedia gives entry-level skills for desktop publishing, web design, and image management as well as exposure to digital photography techniques. The goal is to prepare students using various software applications in the design, editing, and publishing of documents, image graphics, and multimedia in print and electronic form. From designing a poster to developing a website, students will learn various creative methods where they will print their imagination for all to view. Students will have the opportunity to earn the Adobe Certified Associate (Entry Level) Certification in Visual Communication and the Adobe Certified Associate in Web Communication via Certiport.

### **INFORMATION TECHNOLOGY ESSENTIALS**

Information Technology Essentials prepares students for entry level positions within the information technology field. Beginning with Cisco IT Essentials, PC hardware, software, and network operating systems is introduced. Prepare for CompTIA A+ and CompTIA Server+ certifications. Then, take part in Cisco CCNA Discovery course. Through this course, students will learn networking concepts based on typical networks that one might encounter in a home or small office to more complex enterprise models. Finally, prepare for the Cisco CCENT™ and Cisco CCNA®. Those who are fascinated by computers and want to be a part of an industry that never stands still should enroll in this course.

### **PUBLIC SAFETY TECHNOLOGY**

Public Safety Technology is a comprehensive program focusing careers relating to emergency medical services, firefighting, law enforcement, and emergency management services. For successful completion of the program, students will be required to meet minimum proficiency levels in all areas public safety areas. Instruction is provided in disaster situations/management, hazardous materials handling, pre-hospital medical care, map reading, firefighting, the judicial system, and emergency dispatching. Students will have the opportunity to earn the following certifications: Emergency Medical Technician- Basic (EMT-B), Basic Vehicle Rescue (BVR), Emergency Vehicle Operators Course (EVOC), Hazardous Materials Recognition and Identification (Haz-Mat R&I), and multiple Federal Emergency Management Agency certifications.

### **WELDING TECHNOLOGY**

Welding Technology covers several types of welding processes in which the welded materials may be bent, cut, or welded together. These processes include oxy-fuel, shielded metal arc, gas metal arc, gas tungsten arc, flux core welding, carbon arc, plasma cutting, and oxy-fuel brazing. Discover the importance of industry safety, measuring instruments, hand tools, grinders, metallurgy, blueprint reading, electrical principles, layout/design, and fabrication. Learn to prepare a material list to perform cost estimating when performing a job. Students will have the opportunity to earn American Welding Society (AWS) certification.

## NATIONAL COLLEGIATE ATHLETIC ASSOCIATION (NCAA)

Students entering a Division I or Division II college as a freshman must meet specific requirements to be classified as an NCAA “qualifier”:

- Graduation from high school
- Core-course grade-point average (non-weighted) and a combined score on the SAT verbal and math sections or a sum score on the ACT based on the qualifier index scale.

Courses from the following departments have NOT been approved as “Core GPA” courses:

- Business and Information Technology
- Family and Consumer Sciences
- Fine Arts
- Technology Education
- Technical School Courses
- Correspondence Courses
- Online Courses

In addition, the following individual courses are NOT approved:

- Academic Literacy Courses
- English as a Second Language
- Language Enrichment courses
- Literature Study Skills
- Algebra Essentials
- College Preparatory Math
- Surveys of Applied Mathematics
- Personal Finance
- Business Mathematics
- PSSA Mathematics
- Driver’s Education
- Physical Education

At the time of publication, the following courses were submitted but still not approved by the NCAA:

- (H) English 12: Senior Seminar

It is the students’ responsibility to assure that the courses in which they enroll will be acceptable to the NCAA, and that they meet the other requirements as defined by that association. If a student or parent is unsure of a courses approval/non-approval status, they should check with their high school counselor prior to enrolling in the class.

Student-athletes aspiring to play college Division I or Division II athletics should obtain a copy of the “NCAA Guide for the College-Bound Athlete” from the School Counseling Office or Athletic Office.

The NCAA list of approved courses is also available on a website at [www.eligibilitycenter.org/](http://www.eligibilitycenter.org/) .

The NCAA can be reached by calling: 1-877-262-1492 Toll Free

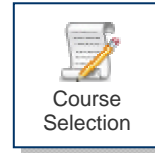
The Mt. Lebanon High School Code is: 393730.

## Online Course Selection for Grades 8 through 11

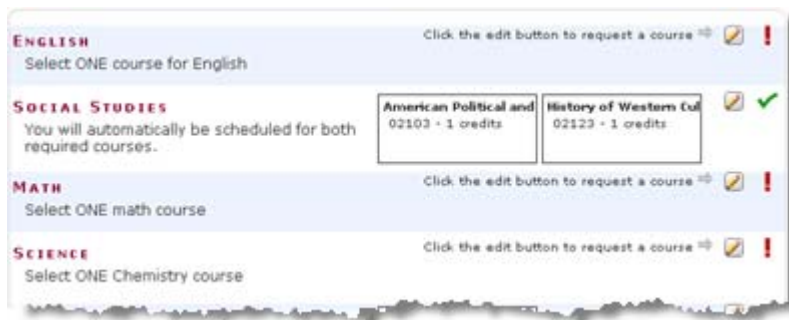
**Timeline:** The online course selection system will OPEN for student and parent use on Friday, January 27, 2012 at 4:00pm. The online course selection system will CLOSE on Friday, February 3, 2012 at 4:00pm. Please complete course selections during this timeframe. The online course selection system is NOT a priority registration system. Students may complete and update selections throughout the window (Jan. 27 – Feb. 3) without impacting the likelihood of entrance into a course.

**Reminder:** If any changes need to be made to student course requests or you experience scheduling difficulties, please email your high school counselor directly or contact the High School Counseling Office at (412) 344-2053.




**Step 1:** Once logged in to Dashboard, click the Course Selection icon from the menu bar to begin. If you do not see this icon, the course selection period may have ended.





**Step 2:** The Course Selection screen will appear as shown below.





### Legend:

-  Open Course Request pop-up window.
-  Course Requests complete for this group.
-  Number of required course requests not yet met.

**Example above:** In the example screen shown above, English, Math, and Science still require course selections. Click the pencil button () to edit course requests for the corresponding group.

Social Studies has two core classes pre-selected already, American Political and Economic Systems and History of Western Cultures. These two Social Studies classes are required for this grade and are automatically scheduled. A checkmark () indicates that the Social Studies class group is complete.

Classes marked with an exclamation point () do not have the required number of courses selected, or have more courses selected than the maximum allowed.

**Step 3:** Click the pencil button () to open the course request screen. This pop-up window should look like the screen shown at the top of the next page.

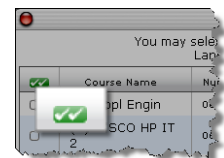


The bottom of the pop-up window will indicate the number of courses the student is permitted to request. Simply click on a course to select it then click the **Okay** button to submit the request. Click the pencil button again from the Class Registration screen to change the selection.

**Notes:**

**Sorting** - Click a column heading to sort by that column. For example, to sort by Course Name, click the Course Name column heading.

**Multiple Selections** - Two checkmarks at the top of the first column indicate that more than one course can be selected.



**Step 4:** Once all course selections are complete, no red exclamation points should appear on the Course Selection screen.

Click the Submit button at the bottom of the page to submit all course requests for the next school year.

## Course Selections for 2012- 2013 9th Grade

Student Name: \_\_\_\_\_ Student No: \_\_\_\_\_ Grade/Section: \_\_\_\_\_

**Use this form to guide you through the course selection process if the on-line course selection system has closed. This form should be detached and submitted to the School Counseling Office if on-line selections are unable to be completed.**

1. Check (✓) course selections on the reverse side. *The minimum load required per semester is 5 courses and physical education.* Use the sample schedule below as a guide.
2. Select at least two alternate elective choices and list them below. Alternate choices will be assigned in the case of a scheduling conflict or the cancellation of a course due to lack of enrollment.

	Required Selections	Semester A	Semester B
1	Lunch	Lunch	Lunch
2	Social Studies	American Political and Economic Systems	History of Western Cultures
3	Physical Education/Info Tech	PE or Dance/Science Lab (1 day)	Info Tech/Science Lab (1 day)
4	Science		
5	English		
6	Math		
7	Electives (1 full year or 2 semester courses)		
8	Electives (1 full year or 2 semester courses)		

*\*Required Courses are already listed.*

### Alternate Elective Choices:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

## GRADE 9

S = Semester

FY = Full Year

Check (✓) course requests. All students will take *History of Western Cultures, American Political and Economic Systems, and Technology & Media Applications 9*. Select either *Physical Education or Dance*. For your electives, you may select 2 full year electives, 1 full year and 2 semester electives, or 4 semester electives.

		<b>ENGLISH (Select 1 FY course)</b>	Teacher Initial
	FY	1000 English 9	
	FY	1800 (H) English 9	
	S	1403 Academic Literacy 3	
	FY	1980 Academic Literacy 2	
	FY	1700 Academic Literacy 2S	
		<b>MATHEMATICS (Select 1 FY course)</b>	Teacher Initial
	FY	3240 Algebra 1	
	FY	3250 Geometry	
	FY	3260 (H) Geometry	
	FY	3360 (H) Algebra 2	
	S	3803 Visual Basic 1	
	S	3823 (H) Visual Basic 2	
		<b>SCIENCE (Select 1 FY Course)</b>	Teacher Initial
	FY	4210 Chemistry	
	FY	4220 (H) Chemistry	
	FY	4300 (H) Physics: Models of Motion	
	S	4353 Physics: S.O.M.E.	
	S	4363 Physics: Principles of Energy	
	S	4503 (H) Scientific Investigations	
		<b>SOCIAL STUDIES (Required)</b>	Teacher Initial
✓	S	<b>2103 Am. Pol./Econ. Systems</b>	
✓	S	<b>2123 History of West. Cultures</b>	
		<b>PHYSICAL EDUC: (Select 1)</b>	Teacher Initial
	S	7923 Physical Education (4 day)	
	S	7943 Adapted PE (4 day)	
	S	7063 Dance 1 (4 day)	
	S	7083 Dance 2 (4 day)	
	FY	7160 Dance Company (Audition Only)	
		<b>WORLD LANGUAGE</b>	Teacher Initial
	FY	5210 French 1	
	FY	5220 French 2	
	FY	5310 German 1	
	FY	5320 German 2	
	FY	5510 Latin 1	
	FY	5610 Spanish 1	
	FY	5620 Spanish 2	
		<b>BUSINESS &amp; INFO TECH</b>	Teacher Initial
✓	S	<b>6003 Tech &amp; Media Apps. 9 (4 day)</b>	
	S	6103 Keyboarding 1	

		<b>FINE ARTS</b>	Teacher Initial
	FY	7200 Concert Choir	
	FY	7230 Concert Band	
	FY	7250 Wind Ensemble (Audition only)	
	FY	7270 Orchestra (strings)	
	FY	7280 Orchestra (ww, br, perc, piano)	
	S	7313 Music Technology 1	
	S	7323 Music Technology 2	
	S	7433 Tech Theatre Co	
	S	7463 Comm. Serv. St. Crew (3 day)	
	S	7503 Speech Communications	
	S	7523 Theatre Arts 1	
	S	7533 Theatre Arts 2	
	S	7603 Art 1	
	S	7633 Art 2	
	S	7743 Media Arts and Production 1	
	S	7753 Media Arts and Production 2	
		<b>FAMILY AND CONSUMER SCIENCE</b>	Teacher Initial
	S	6503 Contemporary Life Management	
	S	6533 Fashion Arts	
	S	6543 Advanced Fashion Arts	
	S	6551 Food and Nutrition	
	S	6562 Food For Today	
		<b>TECHNOLOGY EDUCATION</b>	Teacher Initial
	S	6603 CAD for Eng. & Architecture	
	S	6613 Engineering Drawing	
	S	6623 Architectural Drawing	
	S	6651 CISCO HP IT Essentials 1	
	S	6662 (H) CISCO HP IT Ess. 2	
	S	6673 Manufacturing & Production 1	
	S	6682 Manufacturing & Production 2	
	S	6713 Graphics Comm. Tech. 1	
	S	6723 Graphics Comm. Tech. 2	
	S	6763 Applied Power Technology	
	S	6653 Applied Power Technology 2	
	S	6851 Applied Engineering 1	
	S	6862 (H) Applied Engineering	
		<b>STUDY HALL</b>	
	S	9991 Study Hall - 1 <sup>st</sup> semester (5 day)	
	S	9992 Study Hall - 2 <sup>nd</sup> semester (5 day)	

# Course Selections for 2012 - 2013

## 10th Grade

Student Name: \_\_\_\_\_ Student No: \_\_\_\_\_ Grade/Section: \_\_\_\_\_

**Use this form to guide you through the course selection process if the on-line course selection system has closed. This form should be detached and submitted to the School Counseling Office if on-line selections are unable to be completed.**

1. Check (✓) course selections on the reverse side. *The minimum load required per semester is 5 courses and physical education.* Use the sample schedule below to guide you.
2. Select at least two alternate elective choices and list them below. Alternate choices will be assigned in the case of a scheduling conflict or the cancellation of a course due to lack of enrollment.

	Required Selections	Semester A	Semester B
1	Lunch	Lunch	Lunch
2	Social Studies	World Cultures	World Cultures
3	PE/Dance	PE (2 days) or Dance (4 days)/Science Lab	PE (2 days) or Dance (4 days)/Science Lab
4	Science		
5	English		
6	Math		
7	Electives (1 full year or 2 semester courses)		
8	Electives (1 full year or 2 semester courses)		

*\*Required Courses are already listed.*

**Alternate Elective Choices:**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

## GRADE 10

S = Semester      FY = Full Year

Check (✓) course selections. All students will take 2 semesters of World Cultures. Choose between PE or Dance.  
 Elective choices: you may choose either 2 full year electives, 1 full year and 2 semester electives, or 4 semester electives.

ENGLISH (Required)			Teacher Initial
FY	1100	English 10	
FY	1810	(H) English 10	
S	1413	Literature/Study Skills	
S	1503	Journalism 1	
S	1523	Journalism Production	
S	1613	Imaginative Writing	
S	1623	Imaginative Writing Production	
S	1423	Fiction	
S	1603	Composition	
FY	1700	Academic Literacy 2S	
FY	1980	Academic Literacy 2	
MATHEMATICS (Required)			Teacher Initial
FY	3240	Algebra 1	
FY	3250	Geometry	
FY	3260	(H) Geometry	
FY	3350	Algebra 2	
FY	3360	(H) Algebra 2	
FY	3420	(H) PreCalculus	
FY	3430	(H) Adv. PreCalculus	
S	3803	Visual Basic 1	
S	3823	(H) Visual Basic 2	
SCIENCE (Required)			Teacher Initial
FY	4110	Biology	
FY	4120	(H) Biology	
FY	4210	Chemistry	
FY	4220	(H) Chemistry	
FY	4230	(H) Organic Chemistry	
FY	4240	AP Chemistry	
FY	4300	(H) Physics: Motion/Forces	
S	4353	Physics: SOME	
S	4363	Physics: Energy	
S	4503	(H) Scientific Investigations	
SOCIAL STUDIES (Required)			Teacher Initial
✓	S	<b>2151/2152 World Cultures</b>	
	S	2103 Am. Pol./Econ. Systems	
	S	2123 History of West. Cultures	
PHYSICAL EDUC: (Required)			Teacher Initial
FY	7930	Physical Education (2 day)	
FY	7953	Adapted PE (2 day)	
S	7053	Dance 1	
S	7063	Dance 1 (4 day)	
S	7073	Dance 2	
S	7083	Dance 2 (4 day)	
S	7093	Dance 3	
S	7103	Dance 3 (4 day)	
FY	7160	Dance Company (Audition only)	
WORLD LANGUAGE			Teacher Initial

FY	5210	French 1	
FY	5220	French 2	
FY	5230	French 3	
FY	5310	German 1	
FY	5320	German 2	
FY	5330	German 3	
FY	5510	Latin 1	
FY	5520	Latin 2	
FY	5610	Spanish 1	
FY	5620	Spanish 2	
FY	5630	Spanish 3	
BUSINESS & INFO TECH			Teacher Initial
S	6013	Web Page Design	
S	6023	Web Page Design 2	
S	6033	(H) Web Page Design 2	
S	6103	Keyboarding 1	
S	6211	(H) Financial Accounting 1	
S	6222	(H) Financial Accounting 2	
S	6343	Entrepreneurship	
S	6353	(H) Business Law	
S	<b>6003</b>	<b>Tech &amp; Media Apps. 9 (4 day)</b>	
FINE ARTS			Teacher Initial
S	7013	Hum.: C Greece – M Ages	
S	7023	(H) Hum: C. Greece – M Ages	
S	7033	Hum: Ren. – 20 <sup>th</sup> Century	
S	7043	(H) Hum: Ren - 20 <sup>th</sup> Century	
Y	7200	Concert Choir	
Y	7230	Concert Band	
Y	7250	Wind Ensemble (Audition only)	
Y	7300	(H) Wind Ensemble	
Y	7270	Orchestra (strings)	
Y	7280	Orchestra (ww, br, perc, piano)	
Y	7290	(H) Orchestra	
S	7313	Music Technology 1	
S	7323	Music Technology 2	
Y	7330	Music Technology 3	
Y	7350	(AP) Music Theory	
S	7433	Tech Theatre Co	
S	7463	Comm. Serv. St. Crew (3 day)	
S	7503	Speech Communications	
S	7523	Theatre Arts 1	
S	7533	Theatre Arts 2	
S	7543	Theatre Arts 3	
S	7573	Daytime Theatre Comp	
S	7603	Art 1	
S	7633	Art 2	
S	7653	2-D Studio Arts	

	S	7683 (H) 2-D Studio Arts	
	Y	7690 AP Studio Art	
	S	7703 Ceramics	
	S	7733 (H) Ceramics	
	S	7743 Media Arts and Production 1	
	S	7753 Media Arts and Production 2	
	S	7783 Advanced Video Prod	
	S	7803 Digital Film Making	
<b>FAMILY AND CONSUMER SCIENCE</b>			<b>Teacher Initial</b>
	S	6503 Contemporary Life Management	
	S	6513 Child Development 1	
	S	6522 Child Development 2	
	S	6533 Fashion Arts	
	S	6543 Advanced Fashion Arts	
	S	6551 Food and Nutrition	
	S	6562 Food For Today	
<b>TECHNOLOGY EDUCATION</b>			<b>Teacher Initial</b>
	S	6603 CAD for Eng. & Architecture	
	S	6613 Engineering Drawing	
	S	6623 Architectural Drawing	

	S	6643 (H) Arch. & Engineering Design	
	S	6651 CISCO HP IT Essentials 1	
	S	6662 (H) CISCO HP IT Ess. 2	
	S	6673 Manufacturing & Production 1	
	S	6682 Manufacturing & Production 2	
	S	6713 Graphics Comm. Tech. 1	
	S	6723 Graphics Comm. Tech. 2	
	S	6733 Graphics Comm. Tech. 3	
	S	6763 Applied Power Technology	
	S	6653 Applied Power Technology 2	
	S	6851 Applied Engineering 1	
	S	6862 (H) Applied Engineering	
<b>STUDY HALL/ VO-TECH</b>			
	S	9991 Study Hall - 1 <sup>st</sup> semester (5 day)	
	S	9992 Study Hall - 2 <sup>nd</sup> semester (5 day)	
	Y	8600 Parkway Vo-Tech AM	
	Y	8610 Parkway Vo-Tech PM	



# Course Selections for 2012 - 2013

## 11th Grade

Student Name: \_\_\_\_\_ Student No: \_\_\_\_\_ Grade/Section: \_\_\_\_\_

### IMPORTANT INFORMATION ABOUT CHOOSING/CHANGING COURSE SELECTIONS

**Use this form to guide you through the course selection process if the on-line course selection system has closed. This form should be detached and submitted to the School Counseling Office if on-line selections are unable to be completed.**

1. Check (✓) course selections on the reverse side. *The minimum load required per semester is 5 courses and physical education.* Use the sample schedule below to guide you.
2. Select at least two alternate elective choices and list them below. Alternate choices will be assigned in the case of a scheduling conflict or the cancellation of a course due to lack of enrollment.

	Required Selections	Semester A	Semester B
<b>1</b>	Lunch	<b>Lunch</b>	<b>Lunch</b>
<b>2</b>	Social Studies (US History)		
<b>3</b>	English (American Lit.)		
<b>4</b>	Math		
<b>5</b>	Science		
<b>6</b>	Science Lab	<b>Science Lab (1 day)</b>	<b>Science Lab (1 day)</b>
<b>7</b>	Electives (1 full year or 2 semester courses)		
<b>8</b>	Electives (1 full year or 2 semester courses)		

*\*Required Courses are already listed.*

### Alternate Elective Choices:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

# GRADE 11

S = Semester

FY = Full Year

Check (✓) course requests. **All Juniors must take one American Literature course and one US History course.** It is recommended that students carry 6 courses each semester. Most honors and advanced placement courses are screened.

ENGLISH			Teacher Initial
	FY	1200 Am Lit: Confrontation in America	
	FY	1210 Am Lit: Exploring the Am Dream	
	FY	1220 Am Lit: Celeb. Am. Individualism	
	FY	1820 (H) American Literature	
	S	1603 Composition	
	S	1413 Literature/Study Skills	
	S	1423 Fiction	
	S	1503 Journalism 1	
	S	1543 Journalism Production	
	S	1553 Journalism Production (4 day)	
	S	1613 Imaginative Writing	
	S	1623 Imaginative Writing Production	
	FY	1700 Academic Literacy 2S	
	FY	1980 Academic Literacy 2	
MATHEMATICS			Teacher Initial
	FY	3350 Algebra 2	
	FY	3360 (H) Algebra 2	
	FY	3370 College Preparatory Mathematics	
	FY	3410 Appl of Functions and Trig.	
	FY	3420 (H) PreCalculus	
	FY	3430 (H) Adv. PreCalculus	
	FY	3500 (H) Calculus	
	FY	3510 AP (BC) Calculus	
	FY	3530 AP Statistics	
	S	3572 Personal Finance	
	S	3581 Business Math	
	S	3803 Visual Basic 1	
	S	3823 (H) Visual Basic 2	
	FY	3850 AP Computer Science A	
SCIENCE			Teacher Initial
	FY	4210 Chemistry	
	FY	4220 (H) Chemistry	
	FY	4230 (H) Organic Chemistry	
	FY	4240 AP Chemistry	
	FY	4300 (H) Physics: Models of Motion	
	FY	4330 AP Physics C: Mechanics	
	S	4353 Physics: S.O.M.E.	
	S	4363 Physics: Principles of Energy	
	FY	4110 Biology	
	FY	4120 (H) Biology	
	S	4133 (H) Human Anatomy & Phys.	
	S	4173 Astrobiology	
	S	4423 Forensic Science	
	S	4503 (H) Scientific Investigations	
	FY	4150 AP Biology	
	FY	4400 Envir. Geoscience	
	FY	4410 Envir. Geoscience (AP Env. Sci)	
SOCIAL STUDIES			Teacher Initial
	FY	2200 US History	
	FY	2220 AP US History	

	S	2323 Anthropology	
	S	2343 Comparative Religions	
	S	2363 Economics	
	S	2383 Political Science	
	S	2403 Psychology	
	S	2423 Sociology	
	S	2453 (H) Research into Cont. America	
	S	2151 World Cultures - Sem 1	
	S	2152 World Cultures - Sem 2	
	S	2103 Am. Pol./Econ. Systems	
	S	2123 History of West. Cultures	
HEALTH/PE			Teacher Initial
	S	7903 Health and Wellness	
	S	7953 Adapted PE (2 day)	
	S	7963 Seasonal Sports ( 2 day)	
	S	7973 Personal Fitness ( 2 day)	
	S	7983 Lifeguarding (2 day)	
	S	7053 Dance 1	
	S	7063 Dance 1 (4 day)	
	S	7073 Dance 2	
	S	7083 Dance 2 (4 day)	
	S	7093 Dance 3	
	S	7103 Dance 3 (4 day)	
	FY	7160 Dance Company (Audition only)	
WORLD LANGUAGE			Teacher Initial
	FY	5210 French 1	
	FY	5220 French 2	
	FY	5230 French 3	
	FY	5240 French 4	
	FY	5250 (H) French 4	
	FY	5310 German 1	
	FY	5320 German 2	
	FY	5330 German 3	
	FY	5340 German 4	
	FY	5350 (H) German 4	
	FY	5510 Latin 1	
	FY	5520 Latin 2	
	FY	5530 Latin 3	
	FY	5610 Spanish 1	
	FY	5620 Spanish 2	
	FY	5630 Spanish 3	
	FY	5640 Spanish 4	
	FY	5650 (H) Spanish 4	
BUSINESS & INFO TECH			Teacher Initial
	S	6013 Web Page Design	
	S	6023 Web Page Design 2	
	S	6033 (H) Web Page Design 2	
	S	6103 Keyboarding 1	
	S	6211 (H) Financial Accounting 1	
	S	6222 (H) Financial Accounting 2	
	S	6343 Entrepreneurship	

S	6353	(H) Business Law	
S	6403	Internat'l Business Simulation	
S	<b>6003</b>	<b>Tech &amp; Media Apps. 9 (4 day)</b>	
<b>FINE ARTS</b>			<b>Teacher Initial</b>
S	7013	Hum.: C Greece – M Ages	
S	7023	(H) Hum: C. Greece – M Ages	
S	7033	Hum: Ren. – 20 <sup>th</sup> Century	
S	7043	(H) Hum: Ren - 20 <sup>th</sup> Century	
FY	7200	Concert Choir	
FY	7210	Concert Choir (4 day)	
FY	7230	Concert Band	
FY	7240	Concert Band (4 day)	
FY	7250	Wind Ensemble (Audition only)	
FY	7260	Wind Ensemble (4 day)	
FY	7300	(H) Wind Ensemble	
FY	7270	Orchestra (strings)	
FY	7280	Orchestra (ww, br, per, piano)	
FY	7290	(H) Orchestra	
S	7313	Music Technology 1	
S	7323	Music Technology 2	
FY	7330	Music Technology 3	
FY	7340	Music Technology 3 (4 day)	
FY	7350	(AP) Music Theory	
S	7433	Tech Theatre Co	
S	7443	Tech Theatre Co. (4 day)	
S	7463	Comm. Serv. St. Crew	
S	7503	Speech Communications	
S	7523	Theatre Arts 1	
S	7533	Theatre Arts 2	
S	7543	Theatre Arts 3	
S	7573	Daytime Theatre Company	
S	7583	Evening Theatre Company	
S	7603	Art 1	
S	7613	Art 1 (4 day)	
S	7633	Art 2	
S	7643	Art 2 (4 day)	
S	7653	2-D Studio Arts	
S	7663	2-D Studio Arts (4 day)	
S	7683	(H) 2-D Studio Arts	
FY	7690	AP Studio Art	
S	7703	Ceramics	
S	7713	Ceramics (4 day)	

S	7733	(H) Ceramics	
S	7743	Media Arts and Production 1	
S	7753	Media Arts and Production 2	
S	7783	Advanced Video Prod	
S	7793	Advanced Video Prod (4 day)	
S	7803	Digital Film Making	
S	7813	Digital Film Making (4 day)	
<b>FAMILY AND CONSUMER SCIENCE</b>			<b>Teacher Initial</b>
S	6503	Contemporary Life Management	
S	6513	Child Development 1	
S	6522	Child Development 2	
S	6533	Fashion Arts	
S	6543	Advanced Fashion Arts	
S	6551	Food and Nutrition	
S	6562	Food For Today	
S	6583	Interior Design and Housing	
S	6593	Interior Des and Housing (4 day )	
<b>TECHNOLOGY EDUCATION</b>			<b>Teacher Initial</b>
S	6603	CAD for Eng. & Architecture	
S	6613	Engineering Drawing	
S	6623	Architectural Drawing	
S	6643	(H) Arch. & Engineering Design	
S	6651	CISCO HP IT Essentials 1	
S	6662	(H) CISCO HP IT Ess. 2	
S	6673	Manufacturing & Production 1	
S	6682	Manufacturing & Production 2	
S	6713	Graphics Comm. Tech. 1	
S	6723	Graphics Comm. Tech. 2	
S	6733	Graphics Comm. Tech. 3	
S	6763	Applied Power Technology	
S	6653	Applied Power Technology 2	
S	6851	Applied Engineering 1	
S	6862	(H) Applied Engineering	
<b>STUDY HALL/VO-TECH</b>			
S	9991	Study Hall - 1 <sup>st</sup> semester	
S	9992	Study Hall – 2 <sup>nd</sup> semester	
FY	8600	Parkway Vo-Tech AM	
FY	8610	Parkway Vo-Tech PM	



# Course Selections for 2012-2013 12th Grade

Student Name: \_\_\_\_\_ Student No: \_\_\_\_\_ Grade/Section: \_\_\_\_\_

## IMPORTANT INFORMATION ABOUT CHOOSING/CHANGING COURSE SELECTIONS

Use this form to guide you through the course selection process if the on-line course selection system has closed. This form should be detached and submitted to the School Counseling Office if on-line selections are unable to be completed.

1. Check (✓) course selections on the reverse side. *The minimum load required per semester is 5 courses and physical education.* Use the sample schedule below to guide you.
2. Select at least two alternate elective choices and list them below. Alternate choices will be assigned in the case of a scheduling conflict or the cancellation of a course due to lack of enrollment.

	Required Selections	Semester A	Semester B
<b>1</b>	Lunch	<b>Lunch</b>	<b>Lunch</b>
<b>2</b>	English		
<b>3</b>	Health/Semester Elective		
<b>4</b>	Electives (1 full year or 2 semester courses)		
<b>5</b>	Electives		
<b>6</b>	Electives		
<b>7</b>	Electives		
<b>8</b>	Electives		

**\*Please keep in mind the impact of lab sciences (double periods) on the number of elective course selections that you may indicate.**

### Alternate Elective Choices:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

## GRADE 12

S = Semester    FY = Full Year    Place a check (✓) in the box next to your course requests.

<b>ENGLISH (Required)</b>		Teacher Initial
S	1433 Eng 12: Language of Power	
S	1443 Eng 12: Technology & Humanity	
S	1453 Eng 12: Expl. Of Social Roles	
S	1463 Eng 12: Study of Modern Drama	
S	1473 Eng 12: Lang. of Natural World	
S	1853 (H) European Literature	
S	1863 (H) British Literature	
FY	1830 AP Eng 12: Lit. and Comp	
FY	1840 AP Eng 12: Lang. and Comp	
S	1413 Literature/Study Skills	
S	1423 Fiction	
S	1503 Journalism 1	
S	1523 Journalism Production	
S	1533 Journalism Production (4 day)	
S	1603 Composition	
S	1613 Imaginative Writing	
S	1623 Imaginative Writing Production	
FY	1980 Academic Literacy 2	
FY	1700 Academic Literacy 2S	
<b>MATHEMATICS</b>		Teacher Initial
FY	3350 Algebra 2	
FY	3360 (H) Algebra 2	
FY	3370 College Preparatory Mathematics	
FY	3410 Appl of Functions and Trig.	
FY	3420 (H) PreCalculus	
FY	3430 (H) Adv. PreCalculus	
FY	3500 (H) Calculus	
FY	3510 AP (BC) Calculus	
FY	3530 AP Statistics	
FY	3540 (H) Linear Algebra	
S	3541 Statistics	
S	3552 Finite Math	
S	3461 PSSA Math	
S	3572 Personal Finance	
S	3581 Business Math	
S	3803 Visual Basic 1	
S	3823 (H) Visual Basic 2	
FY	3850 AP Computer Science - A	
<b>SCIENCE</b>		Teacher Initial
FY	4210 Chemistry	
FY	4220 (H) Chemistry	
FY	4230 (H) Organic Chemistry	
FY	4240 AP Chemistry	
FY	4300 (H) Physics: Models of Motion	
FY	4330 AP Physics C: Mechanics	
FY	4340 AP Physics C: Electricity & Mag	
FY	4400 Environmental Geoscience	
FY	4110 Biology	
FY	4120 (H) Biology	
FY	4150 AP Biology	
FY	4410 AP Environmental Geoscience (AP Env. Sci)	

S	4353 Physics: S.O.M.E.	
S	4363 Physics: Principles of Energy	
S	4173 Astrobiology	
S	4423 Forensic Science	
S	4503 (H) Scientific Investigations	
S	4133 (H) Human Anatomy & Physio.	
S	4053 Astronomy	
<b>SOCIAL STUDIES</b>		Teacher Initial
FY	2300 AP European History	
S	2323 Anthropology	
S	2343 Comparative Religions	
S	2363 Economics	
S	2383 Political Science	
FY	2400 AP Government and Politics	
S	2403 Psychology	
FY	2410 AP Psychology	
S	2423 Sociology	
S	2433 Current Issues in a Global Soc.	
S	2443 (H) International Relations	
S	2453 (H) Research into Cont. America	
FY	2200 US History	
FY	2220 AP US History	
<b>HEALTH/PE</b>		Teacher Initial
S	7903 Health 1	
S	7953 Adapted PE (2 day)	
S	7963 Seasonal Sports ( 2 day)	
S	7973 Personal Fitness ( 2 day)	
S	7983 Life guarding (2 day)	
S	7053 Dance 1	
S	7063 Dance 1 (4 day)	
S	7073 Dance 2	
S	7083 Dance 2 (4 day)	
S	7093 Dance 3	
S	7103 Dance 3 (4 day)	
FY	7160 Dance Company (Audition only)	
<b>WORLD LANGUAGE</b>		Teacher Initial
FY	5210 French 1	
FY	5220 French 2	
FY	5230 French 3	
FY	5240 French 4	
FY	5250 (H) French 4	
FY	5260 (H) French 5	
FY	5270 AP French 5	
FY	5310 German 1	
FY	5320 German 2	
FY	5330 German 3	
FY	5340 German 4	
FY	5350 (H) German 4	
FY	5360 (H) German 5	
FY	5370 AP German 5	
FY	5510 Latin 1	
FY	5520 Latin 2	

	FY	5530	Latin 3	
	FY	5550	(H) Latin 4	
	FY	5610	Spanish 1	
	FY	5620	Spanish 2	
	FY	5630	Spanish 3	
	FY	5640	Spanish 4	
	FY	5650	(H) Spanish 4	
	FY	5660	Spanish 5	
	FY	5670	AP Spanish 5	
<b>BUSINESS &amp; INFO TECH</b>				<b>Teacher Initial</b>
	S	6013	Web Page Design	
	S	6023	Web Page Design 2	
	S	6033	(H) Web Page Design 2	
	S	6103	Keyboarding 1	
	S	6211	(H) Financial Accounting 1	
	S	6222	(H) Financial Accounting 2	
	S	6343	Entrepreneurship	
	S	6353	(H) Business Law	
	S	6403	International Business Simulation	
	S	6003	<b>Tech &amp; Media Apps. 9 (4 day)</b>	
<b>FINE ARTS</b>				<b>Teacher Initial</b>
	S	7013	Hum.: C Greece – M Ages	
	S	7023	(H) Hum: C. Greece – M Ages	
	S	7033	Hum: Ren. – 20 <sup>th</sup> Century	
	S	7043	(H) Hum: Ren - 20 <sup>th</sup> Century	
	FY	7200	Concert Choir	
	FY	7210	Concert Choir (4 day)	
	FY	7230	Concert Band	
	FY	7240	Concert Band (4 day)	
	FY	7250	Wind Ensemble (Audition only)	
	FY	7260	Wind Ensemble (4 day)	
	FY	7300	(H) Wind Ensemble	
	FY	7270	Orchestra (strings)	
	FY	7280	Orchestra (ww, br, per, piano)	
	FY	7290	(H) Orchestra	
	S	7313	Music Technology 1	
	S	7323	Music Technology 2	
	FY	7330	Music Technology 3	
	FY	7340	Music Technology 3 (4 day)	
	FY	7350	(AP) Music Theory	
	S	7433	Tech Theatre Co	
	S	7443	Tech Theatre Co. (4 day)	
	S	7463	Comm. Serv. St. Crew (3 day)	
	S	7503	Speech Communications	
	S	7523	Theatre Arts 1	
	S	7533	Theatre Arts 2	
	S	7543	Theatre Arts 3	
	S	7573	Daytime Theatre Company	
	S	7583	Evening Theatre Company	
	S	7603	Art 1	

	S	7613	Art 1 (4 day)	
	S	7633	Art 2	
	S	7643	Art 2 (4 day)	
	S	7653	2-D Studio Arts	
	S	7663	2-D Studio Arts (4 day)	
	S	7683	(H) 2-D Studio Arts	
	FY	7690	AP Studio Art	
	S	7703	Ceramics	
	S	7713	Ceramics (4 day)	
	S	7733	(H) Ceramics	
	S	7743	Media Arts and Production 1	
	S	7753	Media Arts and Production 2	
	S	7783	Advanced Video Prod	
	S	7793	Advanced Video Prod (4 day)	
	S	7803	Digital Film Making	
	S	7813	Digital Film Making (4 day)	
<b>FAMILY AND CONSUMER SCIENCE</b>				<b>Teacher Initial</b>
	S	6503	Contemporary Life Management	
	S	6513	Child Development 1	
	S	6522	Child Development 2	
	S	6533	Fashion Arts	
	S	6543	Advanced Fashion Arts	
	S	6551	Food and Nutrition	
	S	6562	Food For Today	
	S	6583	Interior Design and Housing	
	S	6593	Interior Des. and Housing (4 day)	
<b>TECHNOLOGY EDUCATION</b>				<b>Teacher Initial</b>
	S	6603	CAD for Eng. & Architecture	
	S	6613	Engineering Drawing	
	S	6623	Architectural Drawing	
	S	6643	(H) Arch. & Engineering Design	
	S	6651	CISCO HP IT Essentials 1	
	S	6662	(H) CISCO HP IT Ess. 2	
	S	6673	Manufacturing & Production 1	
	S	6682	Manufacturing & Production 2	
	S	6713	Graphics Comm. Tech. 1	
	S	6723	Graphics Comm. Tech. 2	
	S	6733	Graphics Comm. Tech. 3	
	S	6763	Applied Power Technology	
	S	6653	Applied Power Technology 2	
	S	6851	Applied Engineering 1	
	S	6862	(H) Applied Engineering	
<b>STUDY HALL/VO-TECH VO-TECH</b>				
	S	9991	Study Hall - 1 <sup>st</sup> semester	
	S	9992	Study Hall – 2 <sup>nd</sup> semester	
	FY	8600	Parkway Vo-Tech AM	
	FY	8610	Parkway Vo-Tech PM	

