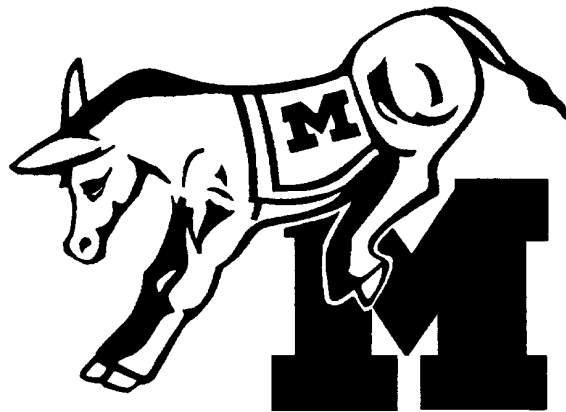


**2011-2012**

**EDUCATIONAL**



**PLANNING GUIDE**

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**MUHLENBERG HIGH SCHOOL  
LAURELDALE, PENNSYLVANIA**

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**NAME** \_\_\_\_\_

**HOMEROOM** \_\_\_\_\_

It is the policy of the Muhlenberg School District not to discriminate on the basis of disability, race, color, gender, or national origin in its education programs, activities, or employment policies as required by Title IX of the Civil Rights Act of 1964, Title IX of the 1972 Education Amendments, or Section 504 of the Rehabilitation Act of 1973. Inquiries regarding compliance should be directed to the Office of the Assistant Superintendent, 801 Bellevue Avenue, Laureldale, PA 19605, telephone 610-921-8000, or to the Director of the Office for Civil Rights, Department of Education, Washington, DC.

## **I. PURPOSE OF THIS MANUAL**

This guide to the educational programs available at Muhlenberg High School shows that approximately two-thirds of the courses selected each year are required, while the other third of the courses are elective. The elective courses should reflect a student's academic abilities, achievements, interests, and educational or career goals. The faculty and guidance department will assist students in making course selections. Careful consideration by students and their parents, together with this assistance from the faculty and guidance department, should result in a program that satisfies the student's needs.

## **II. PLANNING A PROGRAM**

The students, parents, teachers, and counselors should all be involved in the planning of a sound educational program. This program, as it unfolds and develops from year to year, should result in an enjoyable, successful, and profitable high school career. The students' ability to continue their education or their readiness for employment will determine how successful this program has been. In planning this program students should:

1. Establish personal goals.
2. Evaluate personal interests, aptitudes, and needs.
3. Learn career entrance requirements as soon as possible. If post-secondary education is required, find out about the entrance requirements as soon as possible.
4. If college is anticipated, visit as many colleges as possible during the 11<sup>th</sup> & 12<sup>th</sup> grade.
5. Consult with parents, teachers, and counselors in order to benefit from their experience and the information they can make available.
6. Be prepared to modify the program as their interests change.
7. Make sure all graduation requirements are met.

Because the scheduling process is an important commitment, the school requires that parents sign the course selection sheet to note their agreement with the courses to be scheduled for next year. If there are any questions, the counselor should be contacted immediately. The student will receive a completed schedule at the end of the school year. If a change of that schedule is desired, an appointment should be made with the high school counselor before the end of **June**, the deadline for such changes. After this time, making schedule changes will be very difficult and only the following reasons will be considered valid for such changes:

1. The course is beyond the academic ability of the student.
2. A major career change makes other courses more important in the student's schedule.

## **III. GRADUATION REQUIREMENTS**

A. For a student to be eligible for graduation the student shall:

1. Demonstrate mastery of academic standards as defined by Chapter 4, "Curriculum" from the State Board of Education Regulations, PA School Code.
2. Complete a minimum number of credits as defined below.
3. Complete the Culminating/Graduation project according to approved district guidelines.
4. Complete all other requirements developed in conjunction with PA Dept. of Education regulations or as approved by the Muhlenberg School District and presented in district publications.

The process for fulfilling the above requirements is as follows:

- a) Academic Standards - Students must successfully master the content embedded in the high school planned courses, which are developed in accordance with the Pennsylvania academic standards approved by the Pennsylvania State Board of Education. Course descriptions are obtainable from the Educational Planning Guide revised on a yearly basis and available in the high school Guidance Office or on the school district web site. Complete copies of the curriculum for each course are available in the main office at the high school.

b) Course/Credit Requirements - Students shall accumulate a minimum of 24.07

<b><u>Full-Time Muhlenberg Students</u></b>	<b><u>Credits</u></b>	<b><u>Career &amp; Technology Students</u></b>	<b><u>Credits</u></b>
English	4.00	English	4.00
Social Studies*	4.00	Social Studies*	4.00
Mathematics	4.00	Mathematics	4.00
Science**	4.00	Science**	3.00
Arts/Humanities****	2.00	Arts/Humanities****	1.00
Health	0.75	Health	0.75
Driver Education	0.25	Driver Education	0.25
Family & Consumer Science	0.25	Family & Consumer Science	0.25
Career Explorations	0.25	Career Explorations	0.25
Engineering Applications	0.25	Engineering Applications	0.25
Physical Education***	1.32	Physical Education***	1.32
Electives	3.00	Electives	5.00

\*Students shall complete at least one credit of Economics/Government as part of the Social Studies curriculum.

\*\* Students shall complete at least one credit in Physical Sciences and one credit in Life Sciences.

\*\*\* Students must successfully complete a physical education course each year, grades 9-12.

\*\*\*\* Arts/Humanities credits are selected from the list of options shown below:

			<b>9<sup>th</sup> Grade</b>
			<b><u>Arts &amp; Humanities</u></b>
Learning to Draw & Paint	Fashion	Latin III	American Musical Theatre (s)
Introduction to Crafts	Sewing Studio	Latin IV	Child Development (s)
Advanced Drawing & Painting	Understanding Children & Parenting (s)	Spanish I	Housing Homes & Design (s)
Advanced Crafts	Computer Aided Drafting	Spanish II	Intro to Music Theory (s)
AP Studio Art	Architectural Drawing & Design	Spanish III	Materials & Manufacturing (s)
Art Elective: 2-D Design	Engineering Design	Spanish IV	
Art Elective: 3-D Design	Energy, Power & Transportation	German I	
AP Art History	Communication Technology	German II	
Theatre Arts	Material Processes	German III	
Multicultural Arts	Wood Processes I	German IV	
Creative Living	Wood Processes II	Major Music I	
Multicultural Foods	TV & Video Production	Major Music II	
Family Foods	Latin I	Major Music III	
Cook Once, Eat Twice (s)	Latin II	Digital Music	

(s) = semester course. Semester courses are worth ½ credit. All others are worth one credit.

The general elective requirement may be fulfilled by completing any of the elective courses in the English, Mathematics, Science, Social Studies, and Business curricula. This requirement may also be fulfilled by completing additional courses from the list above.

In addition to the above course requirements, students are also required to complete the following to be eligible for graduation:

- a) Culminating/Graduation Project - The purpose of the state-mandated culminating project is to assure that students are able to apply, analyze, synthesize, and evaluate information, and communicate significant knowledge and understanding. Students passing the required Career Explorations course in 9<sup>th</sup> grade will meet the requirements of this project. Students who enroll in the Muhlenberg School District after grade 9 will be required to complete an independent project that will meet the state-mandated graduation project requirement. (Chapter 4 – sec. 4.24 (a))
- b) Book Reports - Students in grades 10 – 12 shall read and present a report on at least 4 books per year in conjunction with the English curriculum.

**Note:** Children with disabilities who satisfactorily complete a special education program developed by an Individualized Education Plan team under the Individuals with Disabilities Education Act and in conjunction with graduation requirements stipulated in Chapter 4 shall earn and be issued a regular high school diploma. This section also applies if the special education program of a child with an Individualized Education Plan related to disability does not otherwise meet all requirements of chapter 4 but the child completes goals for graduation requirements established by the IEP team.

B. Standards Assurance

The Assistant Superintendent/ Designee will insure that the curriculum of Muhlenberg High School meets the requirements of Chapter 4.

**IV. PROMOTION REQUIREMENTS**

At the high school level, students earn credit for each course passed with the goal of reaching the appropriate number of credits for graduation. A 9th grade student must earn a minimum of 5 credits prior to the start of the following school year to be considered a 10th grade student. A 10th grade student must earn a minimum of 10.75 credits prior to the start of the following school year to be considered an 11th grade student. An 11th grade student must earn a minimum of 17.25 credits prior to the start of the following school year to be considered a 12th grade student.

**V. RANKING**

Students in grades 9 through 12 will be ranked at the end of the academic year by using final grades. Ranking will be based on all subjects carried, with the exception of chorus/band and any Pass/Fail courses. The students with the highest grade point averages based upon final grades only will be ranked first, etc.

*Procedure for selecting commencement speakers:* After the third quarter of the senior year, the rank of the top 10 students will be figured by using final grades from grades 9, 10, and 11, and the average of the first three quarters of grade 12. The students will be ranked by order of highest grade point average to the lowest. The honor graduates (commencement speakers) will be the highest-ranking seniors at the end of the third quarter senior year.

**VI. ADVANCED PLACEMENT COURSES**

Students who wish to elect an advanced placement course must meet the following criteria before the course is scheduled:

1. The student must have an overall GPA of 3.0 for the year prior to enrolling in the course and an -A- average in the major subject area for the previous year for which the student is enrolling. Teacher recommendation may also be used to determine eligibility for AP classes in lieu of the required -A- average. It is strongly recommended that the student has previously taken Honors-level courses in the subject area of the AP course in which he/she is enrolling.
2. Prior to the close of school in the current year, the student must make an appointment with the teacher responsible for the course to determine possible summer reading or project requirements.
3. All students enrolled in the AP courses are encouraged to take the AP exam at the student's expense.
4. The AP courses will be weighted.
5. Any AP class with an enrollment of nine or less students will be cancelled.

In order to receive college credit for an AP course, students must take the AP exam associated with each course. A score of 3 or better--on a scale of 1 to 5--is usually required to receive college credit.

## VII. POLICY: MEETING COURSE REQUIREMENTS

Students may schedule no fewer than six major subjects (a major subject is any course that meets every day of the cycle; two one-semester courses that meet each day are the equivalent of one major subject). Students are encouraged to take a seventh full-time subject.

Students may not drop or add courses during the school year except by permission of the principal. In granting such permission, recommendations of teachers, reasons for such a change, test scores, past records, and personal and/or career goals are considered in rendering a judgment. Students who receive permission to drop courses may do so with the following notations placed on their permanent record:

### *Full Year Courses*

1. If dropped before the start of the second marking period, no notation of having entered the course will be placed on the permanent record.
2. If dropped after the end of the first marking period, the notation WP for ~~withdrew~~ "passing" or WF for ~~withdrew~~ "failing" will be placed on the permanent record card.

### *Semester Courses*

1. If dropped before the twenty-third day of the course, no notation of having entered the course will be placed on the permanent record.
2. If dropped after the twenty-third day of the course, the notation WP for ~~withdrew~~ "passing" or WF for ~~withdrew~~ "failing" will be placed on the permanent record card.

## VIII. SUMMER SCHOOL

Students may repeat failed courses at a recognized summer school program with approval of the high school principal. Students can enroll in a maximum of two summer school courses. *Students must enroll in Muhlenberg's Summer School Program if the course they failed is offered here. Courses repeated in summer school will be recorded as the grade earned and credit for the course will be given. Summer school courses taken at Muhlenberg High School will be included in a student's grade point average (GPA) once those courses have been passed.*

Students should understand that permission to enroll in summer school courses may not be granted if circumstances indicate that minimum or no effort was exhibited by the student in the failed course during the school year.

Occasionally, a student may be given permission by the principal to enroll in two English, Social Studies, Math or Science courses during a school year in order to make up a required subject. This permission is granted primarily for senior students only and doubling up on courses should not be expected.

## IX. COURSE AVAILABILITY

The courses described in this guide are offered if sufficient enrollment numbers are reached. Courses may be cancelled if minimum enrollments are not met. When the number of students requesting a course exceeds the number of openings, preference will be given to seniors, first; juniors second; etc. If courses are dropped from the master schedule or eliminated due to conflicts, the student will be notified and given the opportunity to make other selections.

**SPECIAL NOTE:** Some courses may be offered in a variety of patterns (i.e.: a ½ credit course may be offered for six days per cycle during one semester or for three days per cycle for the entire school year). The decision on how to offer each course will be based on the pattern that will allow the most students to schedule a particular course.



## **XI. READING-MUHLENBERG CAREER & TECHNOLOGY CENTER PROGRAMS**

All career-technical programs are three years in length, and students should enroll in a desired program at the beginning of their tenth grade year. Career-technical areas offered at RMCTC are listed:

### **915/610/710/738 ADVERTISING DESIGN/COMMERCIAL ART (ADC)**

**2-3 Credits**

Enrolling in Commercial Art at RMCTC means you have taken the first step in one of the most exciting careers you could imagine. Our graduates attend art schools all over the country where they study Graphic Design, Game Design, Video and Animation, just to name a few. Are you interested in Graphic Design? There you will create logos, advertisements for magazines and television, or you may even design that new package for your favorite candy or sports drink. Maybe you will find that your passion is behind the camera: shooting photographs for magazines, or video for television, movies and the web. Many of our students will go to college to study animation, interactive media and game design as well. By completing the Commercial Art program you will be ready for any career in the visual arts that you choose. Our students have the opportunity to receive college credits at several art schools in the state of Pennsylvania after the completion of the Commercial Art course at RMCTC. Furthermore by completing the Commercial Art program our students are eligible to receive certifications from Adobe, NOCTI and Print Ed. So what are you waiting for? Let your imagination run wild and start your career in art right now!

### **916/612/712/740 AUTO BODY REPAIR (ABR)**

**2-3 Credits**

Today's auto body technicians must be trained in the various aspects of the construction and repair of the modern automobile body and framework. Automobile production uses materials and manufacturing techniques that demand that the auto body repair technician be competent in metalworking, welding, uni-body construction, surface preparation, spray painting and accurate repair estimating. The ABR program prepares its graduates for these tasks. Learning is reinforced by continuous applications of auto body repair classroom lessons to the actual repair of automobiles, vans and light trucks. The students use safe and modern repair equipment in all phases of their training.

### **917/613/713/741 AUTOMOTIVE TECHNOLOGY (ATT)**

**2-3 Credits**

The Automotive Technology course includes specialized classroom, and "hands-on" experiences in the diagnosis, repair, and maintenance of the modern automobile. These experiences entail the understanding of the automotive industry, engines and engine performance, brake systems, steering and suspension systems, and automotive electrical/electronic systems. There is a continuous stream of actual "hands-on" activities, which duplicate the environment of today's "high-tech" automotive service. Students also have the opportunity to become a PA licensed safety and emissions inspector as part of their career and technical program.

### **918/614/714/742 BAKING & PASTRY ARTS (BAK)**

**2-3 Credits**

The Baking & Pasty Arts course provides each student with the opportunity to acquire the basic skills and knowledge needed for entry-level employment in the baking field or continuing education in various culinary fields. Each student is given the opportunity to prepare a variety of baked goods, perform cake decorating, and gain banquet practice. Emphasis is stressed in the areas of sanitary practices and procedures. Students are taught the safe operation of both hand tools and machine-operated equipment. The equipment is equivalent to that used in commercial baking establishments.

### **919/615/715/743 BRICKLAYING (BRK)**

**2-3 Credits**

The construction of today's buildings stresses the use of brick and block more than ever. This course teaches the students' current building and construction methods in a clean and safe working environment. Classroom theory is reinforced by "hands-on" brick and block construction projects. In addition, the course includes components of tile setting; patio and fireplace construction; and other applications used in the masonry trades. This program is well suited to a person who desires working outdoors and enjoys physical activity. Graduates from this program can enter the work force or continue into post secondary education.

### **920/616/716/744 BUILDING & PROPERTY MAINTENANCE (BPM)**

**2-3 Credits**

This instructional program prepares individuals to apply technical knowledge and skills in the maintenance and repair of residential, office, apartment and other commercial buildings. The instruction includes the basics of carpentry, millwork, plumbing, glazing, electricity, plastering, welding, minor sheet metal, concreting, bricklaying, tile setting, hardware usage; heating, ventilation, waterproofing, roofing and record keeping. Building & Property Maintenance is an ideal program for students who possess an inquisitive nature, enjoy varied tasks, and being physically active. Students are prepared for entry-level work or post-secondary education.

**942/635/735/762 BUSINESS/MARKETING/DISTRIBUTION (BMD)****2-3 Credits**

This program provides instruction in the field of marketing and distribution. It is a study of all the activities and concepts concerned with the flow of goods and the provision of services to consumers. This program is concerned with marketing, sales, distribution, merchandising, management and ownership of a business. This course prepares individuals to perform marketing functions, such as: selling, buying, pricing, advertising, storing, and marketing management. In addition, this program includes emphasis on technical knowledge of products and services; related communication and computation skills; and abilities and attitudes associated with human relations in private enterprise. The program prepares individuals for occupations in such businesses as retail and wholesale trade, business administration, marketing managers, customer service, stock clerks, office and administrative, distribution and marketing.

**921/617/717/745 CABINETMAKING & FINISH CARPENTRY (CAB)****2-3 Credits**

This diverse course prepares its graduates with the necessary skills required of today's cabinetmaker. Special emphasis is placed on developing an appreciation for fine craftsmanship and the design and creation of furniture and cabinetry including installation and delivery. Since cabinetmaking is a primary component to all woodworking and millwork, its basic skills and knowledge are needed by most people who work with wood and wood products. The program stresses the care and safe use of the hand tools and power machinery used in the production of cabinets, furniture and general millwork. Technology has advanced within this career to include training on computerized machinery. Creativity is encouraged with opportunity to acquire industry certifications. This training will give a well rounded preparation for the future whether post- secondary education or entry level employment.

**922/618/718/746 CARPENTRY (CAR)****2-3 Credits**

Carpentry is the basic trade of the residential construction industry. Students are provided "hands-on" training in a wide variety of carpentry skills. From creating rough drawings and blue prints, to installing the finished carpentry work, this course reinforces classroom theory with "live" construction projects. Students will gain experience constructing, erecting, installation and repair of structures and fixtures made of wood. The carpentry field presents excellent opportunities for individuals who desire immediate employment after high school or plan to pursue post secondary education.

**923/619/719/739 COMPUTERIZED DRAFTING TECHNOLOGY (CDT)****2-3 Credits**

The CDT program provides the essential foundations of drafting and engineering principles. Basic theories and practices of drafting and engineering are emphasized in "hands-on" application activities. These activities assist the students in developing the necessary skills and knowledge required of entry-level employees and for the continuation of education within the architectural, engineering, and drafting fields. Among the skills the graduates attain are drawing of mechanical devices, machinery, buildings and structures. The CDT course stresses the use of Computer-Aided Drafting and Design (CADD) equipment: AUTOCAD software is utilized for general drafting. Revit software is taught for use with buildings and the architectural field and Inventor software is used for mechanical engineering applications. The CDT program also utilizes a 3D printer. This machine will allow a student to first draw a three dimensional object on the computer, and then print that object as a 3D model. The CDT program graduates are in great demand by local business and industry; many go on to attain engineering certificates or degrees. Students considering the CDT course are urged to complement the technical training with a vigorous program of academic course work at their home school.

**924/620/720/748 COSMETOLOGY (COS)****2-3 Credits**

This State Board of Cosmetology-regulated course teaches the art and science of enhancing personal appearance and self-esteem. It is the branch of applied science that deals with the external beautification of a person through the proper use and application of cosmetic products and practices. The program includes both classroom theory and practical applications in hair cutting and styling; nail service, cosmetic and make-up analysis, shop management; chemical treatment and cosmetology laws. Cosmetology is a state-licensed program requiring 1250 instructional hours for graduation. Upon completing the course, students are prepared to take a State Board of Cosmetology examination for a cosmetologist's license. All students are required to purchase an approved uniform, mannequins, cosmetologist's kit and required reference books.

**925/621/721/749 CULINARY ARTS (CUL)****2-3 Credits**

This highly appealing and interesting area focuses on the technology of preparing and serving attractive and nutritious foods while maintaining sanitary standards. This course includes experiences in developing and managing a food service establishment while also providing training in all aspects of food service. Included within the scope of these activities are: gourmet and fine dining skills, fast food operations, customer service, menu planning, cost-controlling; while also stressing **sanitation** and safety standards. The Food and Hospitality industry is one which includes many employment opportunities such as: Prep Cooks, Short Order Cooks, Private Chefs, Caters, Institutional Cooks, Hotel and Restaurant Management, Café Attendants, and many more options within this field. Culinary Arts has unlimited growth for creative individuals. Program graduates are in constant demand by local businesses as our students have the opportunity to graduate with both Serv-Safe and ACF Certifications. Upon graduating, many students pursue furthering their education at a culinary arts school or college.

**926/622/722/750 DIESEL TRUCK TECHNOLOGY (DTT)****2-3 Credits**

Trucks and diesel equipment are part of virtually every aspect of today's transportation, construction, and manufacturing industries. Most of these vehicles are powered by diesel engines. The Diesel Truck Technology course trains its students in the repair and servicing of diesel-powered equipment. Special emphasis is placed on the direct needs of local business and industry. Classroom theory is enhanced by "hands-on" work involving actual maintenance activities of school owned vehicles and equipment. While the emphasis is on diesel engines, gasoline powered equipment and vehicles are also included as part of the instructional program. Students have the opportunity to obtain state safety inspection licenses for automobiles, light trucks and heavy vehicles, and emissions inspector certification.

**927/623/723/751 EARLY CHILDHOOD DEVELOPMENT (EDE)****2-3 Credits**

Individuals involved in childcare are employed in day care centers, nursery schools, elementary schools, special education programs, Head Start classes, playgrounds, recreation centers and early childhood education centers. A student graduating in this program can qualify as an assistant group supervisor in child day care centers throughout Pennsylvania. The students study all the phases of child development: physical, social, emotional and intellectual. They learn about nutrition, guidance, and discipline. They study how to help the child develop daily living skills and about the value of play, literature, music, art, math, and science in child development. Each student works independently with a combination of learning strategies used to enhance that individual's growth. Practical experience is provided in the on-site childcare facility.

**928/624/724/752 ELECTRICAL TECHNOLOGY (ELT)****2-3 Credits**

This highly technical and demanding course is designed to provide students the skills and knowledge necessary to enter and progress through the dynamic fields of electrical technology and electrical engineering. Class time is divided so that the students benefit from electrical theory lessons reinforced by "hands-on" applications in the program's state-of-the art electrical laboratory. Modern educational equipment is utilized to prepare the students for careers in the emerging "high-tech" electrical field. Students learn the basics of residential, commercial and industrial electricity applications. Program graduates are prepared for employment as entry-level electricians or can pursue advanced education at numerous colleges, technical schools or apprenticeship programs.

**929/625/725/753 ELECTRONICS & COMMUNICATION TECHNOLOGY (ECT)****2-3 Credits**

This exciting and highly individualized course is designed to prepare students to become electronic technicians and to prepare them to further their education after graduation. Students learn to use electronic test equipment, soldering/de-soldering techniques, basic electricity and electronic circuitry, digital electronics, microprocessor repair and industrial robotics technology. Trainers and CAI (Computer-Aided Instruction) will be used for "hands-on" experience and to develop troubleshooting skills. Many students elect to continue their education and earn advanced placement at many post-secondary schools and colleges. Students interested in electrical and electronic engineering will benefit from the technical education received in this program.

**930/686/783/791 HEALTH – MEDICAL PROFESSIONS (HMP)****2- 3 Credits**

This program provides students the opportunity to explore specific professional programs such as occupational therapy, physical therapy, respiratory therapy, massage therapy and alternative therapies. In addition, students will be exposed to surgical and pharmacological procedures. The Medical Professions course of study includes the following: ethics, communication skills, laboratory skills, medical terminology, medical translation, anatomy and physiology, medical abbreviations, First Aid, and Cardio Pulmonary Resuscitation (CPR). Opportunities for clinical and job shadowing experiences will be provided. Upon graduation, students may seek immediate employment as an aide in their specific area of interest or may decide to pursue additional education offered by health care facilities, colleges or universities.

**931/687/784/792 HEALTH – MEDICAL OFFICE (HMO)****2- 3 Credits**

In this pre-professional program, students are exposed to varied medical careers within the hospital and medical office environments. Students are taught the underlying clinical skills, knowledge bases, and professional requirements that are necessary to have in order to be successful in their respective fields. Nursing, medical assistant, medical transcription, medical receptionist, coding and billing, medical insurances, and medical secretary skills are introduced. Field trips, clinical experiences, and work-based learning experiences are available to qualified students. At the end of the program completion, students can choose to work in a related entry-level position or pursue post-secondary education.

**932/688/785/793 HEALTH – NURSING CAREERS (HNC)****2- 3 Credits**

This pre-professional course gives the students opportunities to acquire the knowledge, skills and acceptable attitudes required of a safe, competent worker in the health occupations field. The course of study includes: communication skills, personal and community health, medical terminology, body structure and functions, cause and effect of disease, First Aid and Cardio Pulmonary Resuscitation (CPR), and bedside care. Field trips and clinical experience will be scheduled in local health care facilities. Senior students may participate in the cooperative work experience program in jobs such as nurse aide/assistant, and medical and dietary services. Upon successful completion of this program, students may secure immediate employment as an entry worker in health care facilities or they may continue their education in a specific health career such as practical nursing, professional nursing, physical therapy, respiratory care, radiology, dentistry or any number of related medical fields.

**933/627/727/755 HORTICULTURE (HRT)****2-3 Credits**

Plants are all around us in our everyday lives. We see them while we walk to school, attend weddings or go to a flower show. Our program is designed to have you learn the theory and practical hands-on approach to working with plants. Three main focus areas are explored while in the Horticulture program. Floral Arranging centers on arranging live and artificial flowers in a flower shop setting. Special attention is paid to developing a creative eye from the basic corsage to the most elaborate wedding order. Greenhouse Management concentrates on the daily tasks of growing and selling various tropical plants. The basics of watering, fertilization, transplanting, and monitoring the plants wellbeing is the core of this area. Landscaping duties include maintaining our outside property by using hand or power tools, designing garden areas, and installing a range of landscape products including brick walkways, and stone retaining walls and various other water features. All the areas are suited for the individual who enjoys spending time with nature, helping beautify our world. Program graduates are prepared to enter the workforce or pursue post-secondary education at numerous technical schools and colleges.

**934/600/700/702 INFORMATION TECHNOLOGY APPLICATIONS – (ITA)****2-3 Credits**

This course includes classroom theory and “hands-on” applications in word processing, electronic spreadsheets, database management, desktop publishing, Java Programming, and business accounting software. The students will utilize the Microsoft Office Suite, Mavis Beacon typing software, Sage MAS 90 and Sage MAS 200 to gain skills needed in industry. Students will learn how to implement, navigate, and operate core applications, including General Ledger, Accounts Payable, Accounts Receivable, Bank Reconciliation and Payroll. Any student completing the program will have the necessary skills needed for employment in an office environment. Microsoft Office Specialist Certification and Sage MAS 90 and Sage MAS 200 Certifications are available to all seniors. The student will be expected to read the textbooks and understand basic math functions. The ITA student is encouraged to continue their education at a post secondary school or institution.

**935/602/704/706 INFORMATION TECHNOLOGY WEB DESIGN – (ITW)****2-3 Credits**

Ever wonder how those cool web sites you see on the internet are created? Join the Web Design class and learn to make them yourself. In this program, students learn to use HTML, XHTML, Javascript, Dreamweaver, Photoshop, Flash and Illustrator to create, edit and publish interesting web sites. If you're a creative individual who enjoys art and working with computers, web design could be an exciting, rewarding career for you. Graduates of the web design class will most likely pursue post-secondary education. However, it is possible for very talented students to enter the workforce upon graduation. Designers working in this field enjoy a relaxed, creative work environment. Many work from the comfort of their own home. Web design students also enjoy the opportunity to take advantage of our articulation agreements with local colleges. This means you may be able to receive college credits for the work you do in this class. Don't miss this great opportunity to get a jump start on your career!

**936/628/728/756 MACHINE SHOP TECHNOLOGY (MST)****2-3 Credits**

As a student in this career path you will work with full size industrial machine tools such as, engine lathes, milling machines, drill presses, surface and pedestal grinders, power band saws, and computer numerical controlled (CNC) equipment. Also emphasized in this program are industrial drawing interpretation, precision measurement, inspection processes, layout and assembly procedures, and safe work habits. Introduction to CNC set-up, operation, and programming in addition to training with CAD/CAM software is included in the course instruction. As a machining student at RMCTC you will have the opportunity to earn industry certifications from the National Institute of Metalworking Skills (NIMS). Program graduates have the ability to enter into employment, apprenticeship programs, and post-secondary education.

**937/629/729/757 MOTORCYCLE/MARINE/SMALL ENGINE TECHNOLOGY (MME)****2-3 Credits**

The "small engine" of today is not so small anymore and serves us in ways never imagined! From the large engines that propel boats to those that power recreational vehicles and lawn-care machines, all require the services of a highly knowledgeable and skilled technician. The MME Technology program teaches its students the theories and applications behind the maintenance and repair of a wide variety of motorized equipment and vehicles. This equipment includes generators, industrial tow motor lifts and material handling devices used in all phases of warehousing and manufacturing. Students reinforce their theory lessons through actual maintenance and repair of appropriate equipment and vehicles.

**938/631/731/758 PAINTING & DECORATING (PID)****2-3 Credits**

The role of painters and Wallpaper installers involves more than just making a house, building or room "look nice". Today's crafts-persons in the painting and wallcovering field must know how the particular paint, wallpaper, carpeting and color schemes can complement each other. When a person paints or designs any interior setting, they must account for the brightness of an area, the durability of the decorating materials, and the cost of the materials to the customer. These considerations are true for exterior house or building painting, too. In the Painting & Decorating program, the students acquire the skills and knowledge they must possess in order to be a competitive worker in this field. The program emphasizes "live work" projects. Besides painting and wallpapering the students will also learn, stenciling, airbrush painting, Signmaking and drywall repair. The students learn not just what to do, but how to do it!

**939/632/732/759 PLUMBING & HEATING (PLH)****2-3 Credits**

Students enrolled in Plumbing & Heating acquire the basic skills necessary for the proper and safe use of plumbing and heating materials, supplies, tools and equipment. Students who successfully complete this course will be able to demonstrate competent knowledge and skills in the performance of trade tasks such as: assembling and installing air, gas, water and waste disposal systems; cutting, reaming and threading piping materials, waterproofing and sealing joints; testing entire systems for leaks through the use of pressure testing devices; installing gas, water, and sanitary plumbing fixtures and equipment; reading and implementing blueprint drawings; and designing plumbing and heating systems.

**940/633/733/760 PRINTING/GRAPHIC COMMUNICATIONS (PRI)****2-3 Credits**

This challenging and rewarding training program thoroughly prepares its graduates to enter the comprehensive printing and graphic communications field at an "advanced" apprentice level. Techniques of prepress utilizing the following software Adobe Indesign, Photoshop and Illustrator, offset printing and finishing are stressed. Among the major task divisions that are taught within the course are composition and design, computer to plate procedures, press operations and bindery. The equipment used in the printing course is equal to the equipment used in today's medium to large print shops. In addition to printing theory, learning is enhanced by completing actual production printing projects. Program graduates may enter employment or pursue advanced degrees at various technical schools or colleges.

**941/634/734/761 PUBLIC SAFETY AND SECURITY (PSS)****2-3 Credits**

The Public Safety & Security program presents a comprehensive public safety education to students interested in pursuing a career, volunteer service, or post-secondary education in emergency medical, law enforcement, fire or emergency management services. Students may also find employment in areas of security and industrial safety. Since all areas of public safety must work together, and responsibilities often overlap career boundaries, the student will be expected to meet a minimum level of proficiency in all areas of the training program. Students are required to have a high degree of motivation and self-discipline. Emergency medical services (EMS) prepare students for certification in cardiopulmonary resuscitation and emergency response. Studies will prepare students to test for the Pennsylvania Department of Health's Emergency Medical Technician certification. Law enforcement covers the Pennsylvania crimes and vehicle codes, criminal behavior, corrections, criminal investigations and evidence, patrol procedures, traffic control and safety, as well as arrest procedures and the use of force. Fire science studies prepare students with fire fighting essentials, basic vehicle rescue and personal rescue training. Students will study administration and planning of safety procedures and inspections. This program also offers Emergency Dispatch training.

**943/636/736/763 SEWING/CLOTHING MANUFACTURING (SCM)****2-3 Credits**

This course serves as an excellent springboard into the exciting and challenging world of fashion. Job opportunities are plentiful for those with the required career skills. Students learn both from introductory and advanced techniques of today's fashion apparel industry. From following purchased design patterns to creating personal fashion statements, students acquire the skills and related knowledge to mark, cut and sew a wide variety of fashions and clothing. Interested students should possess originality, creativity, manual dexterity and ambition. While many students utilize this course for entry into the apparel industry directly from high school, some students decide to pursue their study at a specialized collegiate school of fashion design.

**944/638/780/765 UPHOLSTERY (UPH)****2-3 Credits**

This program is by far one of the most unique educational courses taught in Pennsylvania! We are one of the few high schools in the nation teaching this novel and specialized craft. It is an excellent trade for a person who desires to start a small business and never run out of work. Whether its reupholstering furniture or a car's interior, the upholsterer's skills are required. Students in the Upholstery course acquire the necessary skills, knowledge and work ethics required of the trade. From safe use of basic hand tools to estimating the costs of materials and labor, the students will enjoy an educational environment of "hands-on" projects and meaningful work. There is always a need for skilled artisans who are capable of restoring quality home furnishings.

**945/639/782/766 WELDING/METAL FABRICATION (WMF)****2-3 Credits**

Welding and metal fabrication is one of the most desired and highest paying trades in American industry. From the basic task of simply welding two pieces of metal to the advanced lessons of fabricating metal for pipelines and naval vessels, today's welder must have the skills, and knowledge to meet those varying demands. It's a complex and challenging trade, but the financial rewards and steady work more than compensate! This is a trade that has kept pace with the demands of changing technology. The students who successfully complete this rigorous program will acquire expertise in areas of "stick", "TIG", "MIG" and oxyacetylene welding; and the uses of plasma cutting and metal brazing. Trade-related safety practices and the proper use and maintenance of welding equipment are stressed.

**CAREER & TECHNOLOGY SOCIAL STUDIES COURSES**

<b>Core</b>		<b>Honors</b>		<b>Other</b>	
642/643	Am History - Core	640/641	Am History - Honors	644/645	Am History*
651/652	World St - Core	649/650	World St - Honors	646/647	Am History - ELA
		657/658	AP World History	653/654	World St – Core*
				655/656	World St–Core-ELA

**Note:** Core' social studies courses are career level courses; Honors' social studies courses are college level courses; Other' courses are for bilingual and learning support students.

## XII. SPECIAL EDUCATION

### **500 BASIC ENGLISH**

**Grades 10-12**

**1 Credit**

This class introduces and teaches effective reading strategies through direct instruction to improve decoding and comprehension skills. The program replaces ineffective reading skills with effective reading skills and is taught at a variety of levels based on individual student need. The course also works to improve student performance in sentence writing through the use of Strategic Instruction Model. Students will work toward individualized goals with modifications and accommodations.

### **530 BASIC MATH**

**Grades 10-12**

**1 Credit**

This class introduces and teaches effective mathematics strategies through direct instruction to improve computing and problem solving. The program is taught at a variety of levels based on individual student need. The course also works to improve student performance in establishing relationships between concepts and their applications.

### **551 ADVOCACY II**

**Grades 10-12**

**1 Credit**

This course is for students to work toward individualized goals with modifications and accommodations. It provides focused instruction in the areas of self-awareness and self-management. Emphasis is on individual student needs. Topics include anger management, accepting responsibility, and social interactions. Other topics include conflict resolution, recognizing character strengths, and refuting labels and stereotypes. Curriculum is a two year program. *Prerequisite(s): Advocacy I.*

### **526 TRANSITION II**

**Grade 10**

**1/3 Credit**

The 10<sup>th</sup> grade transition class is designed to place a more detailed emphasis on job exploration, skill assessment, and post-secondary education options. Students will further assess their abilities and interests and learn how to begin identifying appropriate and related post-secondary outcomes based on their self-assessments. Increased participation and understanding of self-advocacy in the IEP meeting will also be explored and role-played. Students will also learn about the agencies and services available to students with disabilities.

### **548 READING**

**Grades 10-12**

**1/2 Credit**

### **549 READING**

**Grades 10-12**

**1 Credit**

This course is offered for those students who demonstrate a need for improvement in basic reading skills. It will focus on the use of reading strategies to increase proficiency in decoding, fluency, and vocabulary and text comprehension. This course is taught at a variety of levels based on individual student need.

## XIII. ENGLISH AS A SECOND LANGUAGE EDUCATION - ESL

### **590 ESL - ENTERING & BEGINNING**

**Grades 10-12**

**1 Credit**

This course provides new Second Language students with the basic English vocabulary and skills needed for speaking, understanding, reading, and writing in school and outside of school. An important goal of this course is oral communication in English. Students are also given an introduction to American culture and customs. Included in this course are the 21<sup>st</sup> Century Literacy Skills: Informational, Media, Visual, and Cultural. The focus of the English skills is to prepare students to flourish in today's society and in the future. Regular support is provided to ensure student success in content classes. (*Placement is determined by an English Language Proficiency test and additional academic criteria.*)

### **590 ESL - DEVELOPING**

**Grades 10-12**

**1 Credit**

In this course students will continue to build their skills in English through vocabulary development, reading, and writing activities. Students will read a variety of texts including fiction, nonfiction, biographies, and poetry. There is a continued focus on writing strategies and the expansion of oral communication skills. Included in this course are the 21<sup>st</sup> Century Literacy Skills: Informational, Media, Visual, and Cultural. The goal is the application of English skills is to prepare students to flourish in today's society and in the future. Regular support is provided to ensure student success in content classes. (*Placement is determined by an English Language Proficiency test and additional academic criteria.*)

**590 ESL – EXPANDING & BRIDGING****Grades 10-12****1 Credit**

The focus of this course is on student competency in both the academic and practical areas of English. Expanded vocabulary development along with the application of reading and writing strategies are emphasized. The English language activities included in this course build critical thinking skills, communication skills, and comprehension skills. Included in this course are the 21<sup>st</sup> Century Literacy Skills: Informational, Media, Visual, and Cultural. Proficiency in English is the objective so that students can flourish in today's society and in the future. Support is provided on an as-needed basis to ensure student success in content classes. (*Placement is determined by an English Language Proficiency test and additional academic criteria.*)

**XIV. TECH PREP—ARTICULATION AGREEMENTS**

Many of the programs offered at the Reading-Muhlenberg Career & Technology Center have articulation agreements with post-secondary institutions. An articulation agreement is a determined acceptance of high school programs by a two-year college, trade, or technical school. Career-technical students who are accepted by one of the schools listed below may be eligible for advanced placement status or post-secondary credit for work completed in high school. Reading-Muhlenberg Career & Technology Center has agreements with:

- Pennsylvania College of Technology (part of the Penn State University system)
- Penn State, Berks Campus
- Lincoln Tech
- Berks Technical Institute
- Reading Area Community College
- Baran Institute of Technology
- Triangle Technology
- The Art Institutes
- The Restaurant School at Walnut Hill College
- Welder Training and Testing Institute (WTTI)
- Thaddeus Stevens College of Technology
- McCann's School of Business

In addition, there may be elective courses offered at the home school that meet the requirements of the above-mentioned articulation agreements. (MHS also has an agreement with RACC)

For more specifics on articulation agreements for particular career-technical programs, please contact a guidance counselor at the Reading-Muhlenberg Career & Technology Center or Muhlenberg High School.

**XV. COLLEGE PREPARATORY**

The college preparatory track is designed for those students planning to pursue a four-year college program upon graduation from high school. All college preparatory students are encouraged to schedule the following courses in order to prepare for the rigors of college academics:

- 4 years of English - college prep or honors
- 4 years of Social Studies - college prep or honors
- 4 years of Mathematics - college prep or honors
- 4 years of Science - lab courses
- 2 years of World Language (minimum)

It is suggested that college preparatory students choose electives in subject areas related to their chosen career goal/college major.

Research indicates that students selecting a challenging high school program score higher on the SAT I test, find college acceptance easier, and are more successful in academic studies.

**SUGGESTED 4-YEAR PROGRAM**  
**COLLEGE PREPARATORY**

<b>GRADE 9</b>	<b>CREDIT</b>	<b>GRADE 10</b>	<b>CREDIT</b>	<b>GRADE 11</b>	<b>CREDIT</b>	<b>GRADE 12</b>	<b>CREDIT</b>
English 9 College	1.0	English 10 College	1.0	English 11 College	1.0	English 12 College	1.0
American Cultures 9 College	1.0	American Cultures 10 College	1.0	World Cultures College	1.0	Gov't/Economics College	1.0
Biology College	1.0	Chemistry College or General Physical Science	1.0	Physics (Recommended), Advanced Biology, Advanced Chemistry, Chemistry College, Environmental Science College, or AP Biology	1.0, 1.2 or 1.3	Physics, Advanced Physics, Advanced Biology, Advanced Chemistry, Environmental Science College, Human Anatomy, AP Biology, or AP Physics	1.0, 1.2 or 1.3
Geometry College	1.0	Algebra 2 College	1.0	Precalculus College or Algebra 3/Trigonometry	1.0	Calculus, Finite Math, or Probability & Statistics	1.0
World Language	1.0	World Language	1.0	World Language	1.0	World Language	1.0
Physical Education	.33	Physical Education	.33	Physical Education	.33	Physical Education	.33
Health I	.25	Driver Education	.25	Health II	.5		
Engineering Applications	.25						
Career Explorations	.25	Family & Consumer Sciences	.25				
Elective(s)	1.0	Elective(s)	1.0	Elective(s)	1.0	Elective(s)	1.0

**SUGGESTED 4-YEAR PROGRAM**  
**HONORS PROGRAM**

<b>GRADE 9</b>	<b>CREDIT</b>	<b>GRADE 10</b>	<b>CREDIT</b>	<b>GRADE 11</b>	<b>CREDIT</b>	<b>GRADE 12</b>	<b>CREDIT</b>
English 9 Honors	1.0	American Studies	2.0	Global Studies	2.0	English 12 Honors or AP English	1.0
American Cultures 9 Honors	1.0					Gov't/Economics Honors or AP Government	1.0
Biology Honors	1.0	Chemistry Honors	1.0	Physics (Recommended), AP Chemistry, Advanced Chemistry, Advanced Biology, or AP Biology	1.0, 1.2 or 1.3	Physics, Advanced Physics, Advanced Biology, AP Chemistry, Advanced Chemistry, Human Anatomy, AP Biology, or AP Physics	1.0, 1.2 or 1.3
Geometry Honors	1.0	Algebra 2 Honors	1.0	Precalculus Honors	1.0	Calculus, AP Calculus Probability & Statistics, AP Statistics, or Finite Math	1.0
World Language	1.0	World Language	1.0	World Language	1.0	World Language	1.0
Physical Education	.33	Physical Education	.33	Physical Education	.33	Physical Education	.33
Health I	.25	Driver Education	.25	Health II	.5		
Engineering Applications	.25						
Career Explorations	.25	Family & Consumer Sciences	.25				
Elective	1.0	Elective	1.0	Elective	1.0	Elective	1.0

## **SUGGESTED 4-YEAR PROGRAM**

### **CAREER & TECHNOLOGY CENTER**

<b>GRADE 9</b>	<b>CREDIT</b>	<b>GRADE 10</b>	<b>CREDIT</b>	<b>GRADE 11</b>	<b>CREDIT</b>	<b>GRADE 12</b>	<b>CREDIT</b>
English 9 College	1.0	English 10 College	1.0	English 11 College	1.0	English 12 College	1.0
Algebra 1 or Geometry College	1.0	Algebra 2 College	1.0	Algebra 3/Geometry, Algebra 3/Trigonometry, or Precalculus College	1.0	Calculus, Trigonometry, Math for the Workplace, Finite, or Probability & Statistics	1.0
Biology	1.0	General Physical Science or Chemistry College	1.0	Concepts in Physics, Physics, Chemistry College or Environmental Science College	1.0		
American Cultures 9 College	1.0	CTC Social Studies	1.0	CTC Social Studies	1.0	Gov't/Economics College	1.0
		CTC Shop	2.0	CTC Shop	2.0	CTC Shop	2.0
Physical Education	.33	Physical Education	.33	Physical Education	.33	Physical Education	.33
Health I	.25	Driver Education	.25	Health II	.5		
Engineering Applications	.25						
Career Explorations	.25	Family & Consumer Sciences	.25				
Arts /Humanities Elective*	1.0						
Elective	1.0						

\* Ninth grade students intending to pursue a CTC program in grades 10–12 should complete their required Arts/Humanities credit during grade 9. Courses that meet that requirement are listed on page 2 of this Planning Guide.

**XVI. COURSE SELECTIONS**

Course #	Name	Grade	Per Cycle	Credits	Prerequisite(s)
<b>ART</b>					
367	Learning to Draw & Paint	10-12	6	1 cr	Learning to Draw & Paint or permission from the Instructor Introduction to Crafts or permission from the Instructor Advanced Drawing & Painting, Advanced Crafts, or permission from the Instructor Advanced Drawing & Painting, Advanced Craft, American Studies, Global Studies, or permission from the Instructor
368	Introduction to Crafts	10-12	6	1 cr	
369	Advanced Drawing & Painting	11-12	6	1 cr	
370	Advanced Crafts	11-12	6	1 cr	
371	AP Studio Art	12	6	1cr	
374	AP Art History	11-12	6	1 cr	
375	Theatre Arts	10-12	6	1 cr	
376	Multicultural Arts	10-12	6	1 cr	
378	Art Elective A: 2 D Design	10-12	6	1 cr	
379	Art Elective B: 3 D Design	10-12	6	1 cr	
<b>BUSINESS</b>					
240	Business Management I	10-12	6	1 cr	Basic Accounting  C or better in Algebra 1
241	Business Management II	10-12	6	1 cr	
243	Basic Accounting	10-12	6	1 cr	
244	Advanced Accounting	10-12	6	1 cr	
245	Personal Financial Planning	10-12	6	1 cr	
262	Desktop Publishing	10-12	6	1 cr	
266	Computer Programming	10-12	6	1 cr	
267	Computer Applications	10-12	6	1 cr	
<b>ENGLISH</b>					
011	American Studies	10	12	2 cr	See pg. 3 – AP Criteria
013	English 10 College	10	6	1 cr	
021	Global Studies	11	12	2 cr	
023	English 11 College	11	6	1 cr	
030	AP English Lit & Comp	12	6	1 cr	
031	English 12 Honors	12	6	1 cr	
033	English 12 College	12	6	1 cr	
041	Writing Elective	10-12	6/sem	1/2 cr	
043	Reading Elective	10-12	6/sem	1/2 cr	
045	Speech Elective	10-12	6/sem	1/2 cr	
<b>FAMILY AND CONSUMER SCIENCE</b>					
300	Understand Child/Parent	11-12	6/sem	1/2 cr	(required 10 <sup>th</sup> grade course)
302	Family Foods	10-12	6	1 cr	
303	Multicultural Foods	11-12	6	1 cr	
307	Creative Living	10-12	6	1 cr	
312	Cook Once, Eat Twice	11-12	6/sem	1/2 cr	
313	Fashion	10-12	6	1 cr	
315	Family & Consumer Science	10	3/sem	1/4 cr	

Course #	Name	Grade	Per Cycle	Credits	Prerequisite(s)
<b>MATHEMATICS</b>					
130	Algebra Connections	9-12	6	1 cr	Math teacher recommendation only
111	Algebra 2 Honors	10-11	6	1 cr	Algebra 1
112	Algebra 2 College	10-11	6	1 cr	Algebra 1
131	Algebra 3/Geometry	11-12	6	1 cr	Algebra 2 College
132	Algebra 3/Trigonometry	11-12	6	1 cr	Algebra 2 College
116	Trigonometry	12	6	1 cr	Algebra 2 College or Algebra 3/Geometry
114	Precalculus Honors	11-12	6	1 cr	Algebra 2 Honors
115	Precalculus College	11-12	6	1 cr	Algebra 2 College, Alg 3/Trig, or Alg 3/Geo
117	AP Calculus AB	12	6	1 cr	Precalculus Honors (B or better)
118	Calculus	12	6	1 cr	Precalc Coll or Precalc Honors (B or better)
120	Mathematics for the Workplace	12	6	1 cr	Geometry College
121	Finite Mathematics	12	6	1 cr	Algebra 2 College, Alg 3/Trig, or Alg 3/Geo
124	Probability & Statistics	11-12	6	1 cr	Algebra 2 College, Alg 3/Trig, or Alg 3/Geo
125	AP Statistics	11-12	6	1 cr	Algebra 2 Honors or Precalculus Honors (B or better)

<b>MUSIC</b>					
351	Major Music I	10-12	6	1 cr	The ability to read music; music teacher recommendation
352	Major Music II	10-12	6	1 cr	Major Music I (C or better in each of the four disciplines); music teacher recommendation
353	Major Music III	10-12	6	1 cr	Major Music II (C or better in each of the four disciplines); music teacher recommendation
355	Mixed Chorus	10-12	1	1/6 cr	
356	Concert Chorus	10-12	2	1/3 cr	Member of Mixed Chorus & Audition
357	Blue Band	10-12	2	1/3 cr	Performance ability on a band instrument
358	Jazz Band	10-12	1	1/6 cr	Member of Blue Band & Audition
365	Digital Music	10-12	6	1 cr	

<b>PHYSICAL EDUCATION/HEALTH/DRIVER EDUCATION</b>					
403	Physical Education	10-12	2	1/3 cr	
405	Personal Fitness	10-12	3	1/2 cr	
404	Strength and Conditioning	10-12	3	1/2 cr	
408	Strength & Cond. for Athletes	10-12	3	1/2 cr	
415	Aquatics	10-12	3	1/2 cr	See Prerequisite on pg. 31
441	Health Education II	11	3	1/2 cr	Required 11 <sup>th</sup> grade course
450	Driver Education	10	3/sem	1/4 cr	Required 10 <sup>th</sup> grade course

Course #	Name	Grade	Per Cycle	Credits	Prerequisite(s)
<b>SCIENCE</b>					
154	AP Biology	11-12	8	1.3 cr	Biology College (A) & Chemistry College (B or better) See pg. 3 – AP Criteria
155	Advanced Biology	11-12	7	1.2 cr	Biology Coll & Chemistry Coll (C or better)
158	AP Chemistry	11-12	8	1.3 cr	Chemistry Honors & Algebra 2 Coll (A or A-) See pg. 3 – AP Criteria
160	Chemistry Honors	10	7	1.2 cr	Algebra 1
161	Chemistry College	10-12	7	1.2 cr	Algebra 1
162	Advanced Chemistry	11-12	7	1.2 cr	Chem Hon/Chem Col (B or better) & Alg 2 Coll
168	Environmental Science College	11-12	6	1 cr	Biology
170	General Physical Science	10-12	6	1 cr	
171	Concepts in Physics	11-12	6	1 cr	General Physical Science or Chemistry
173	Physics	11-12	7	1.2 cr	Precalculus or concurrent OR Trigonometry or concurrent with a B or better in Alg 2 Coll
174	Advanced Physics	12	7	1.2 cr	Physics & Calculus (prerequisite or in conjunction with)
175	Human Anatomy & Physiology	12	7	1.2 cr	Biology College & Chemistry College or approval by instructor (B or better)
178	AP Physics B	12	8	1.3 cr	Physics (B or better) & Calculus See pg. 3 – AP Criteria
<b>SOCIAL STUDIES</b>					
011	American Studies	10	12	2 cr	Prerequisite pg. 33
021	Global Studies	11	12	2 cr	American Studies
061	American Cultures 10 College	10	6	1 cr	
071	World Cultures College	11	6	1 cr	
080	AP US Government & Politics	12	6	1 cr	See pg. 3 – AP Criteria
081	Gov't/Economics Honors	12	6	1 cr	
082	Gov't/Economics College	12	6	1 cr	
086	AP European History	11-12	6	1 cr	See pg. 3 – AP Criteria
089	AP Psychology	11-12	6	1 cr	See pg. 3 – AP Criteria
090	General Psychology	11-12	6	1 cr	Prerequisite pg. 35
092	Law in a Changing Society	11-12	6/sem	1/2 cr	
093	This Generation	11-12	6/sem	1/2 cr	

Course #	Name	Grade	Per Cycle	Credits	Prerequisite(s)
<b>SPECIAL EDUCATION*</b>					
500	Basic English*	10-12	6	1 cr	
502	English 10*	10	6	1 cr	
503	English 11*	11	6	1 cr	
504	English 12*	12	6	1 cr	
530	Basic Math*	10-12	6	1 cr	
533	Algebra 1*	10-11	6	1 cr	
534	Algebra 2*	11-12	6	1 cr	
535	Geometry*	10-11	6	1 cr	
537	Transition Math*	12	6	1 cr	
520	Basic Science*	10-12	6	1 cr	
522	Biology II*	10	6	1 cr	
523	General Physical Science*	11	6	1 cr	
524	Environmental Science*	11-12	6	1 cr	
509	Basic Social Studies*	10-12	6	1 cr	
512	American Cultures 10*	10	6	1 cr	
513	World Cultures 11*	11	6	1 cr	
515	Government & Economics*	12	6	1 cr	
548	Reading*	10-12	3	1/2 cr	
549	Reading*	10-12	6	1 cr	
551	Advocacy II*	10-12	6	1 cr	
526	Transition II*	10	2	1/3	

*\*Students will be provided with a curriculum that parallels the curriculum in regular education classes. Each course addresses the students' individual goals and is taught with modifications that address instructional pace, format, and presentation techniques.*

<b>TECHNOLOGY EDUCATION</b>					
331	Computer Aided Drafting	10-12	6	1 cr	
332	Architectural Drawing & Design	10-12	6	1 cr	Computer Aided Drafting
333	Engineering Design	11-12	6	1 cr	Architectural Drawing & Design
340	Energy, Power, & Transportation	10-12	6	1 cr	
341	Communication Technology	10-12	6	1 cr	See prerequisite on pg. 36
343	Wood Processes I	10-12	6	1 cr	
344	Wood Processes II	11-12	6	1 cr	Wood Processes I (70% or better)
345	Material Processes	10-12	6	1 cr	
400	TV & Video Production	11-12	6	1 cr	

<b>WORLD LANGUAGES</b>					
211	German I	10-12	6	1 cr	
212	German II	10-12	6	1 cr	German I (C or better)
213	German III	11-12	6	1 cr	German II (C or better)
214	German IV	12	6	1 cr	German III (C or better)
222	Latin I	10-12	6	1 cr	
223	Latin II	10-12	6	1 cr	Latin I (C or better)
224	Latin III	10-12	6	1 cr	Latin II (C or better)
225	Latin IV	11-12	6	1 cr	Latin III (C or better)
232	Spanish I	10-12	6	1 cr	
233	Spanish II	10-12	6	1 cr	Spanish I (C or better)
234	Spanish III	10-12	6	1 cr	Spanish II (C or better)
235	Spanish IV	11-12	6	1 cr	Spanish III (C or better)

Course #		Name	Grade	Per Cycle	Credits	Prerequisite(s)
<b>Senior am/pm</b>	<b>Non-Senior am/pm</b>	<b>CAREER &amp; TECHNOLOGY</b>				
915/610	710/738	Ad Design/Commercial Art	10-12	12-15	2-3 cr	
916/612	712/740	Auto Body Repair	10-12	12-15	2-3 cr	
917/613	713/741	Automotive Tech	10-12	12-15	2-3 cr	
918/614	714/742	Baking/Pastry Arts	10-12	12-15	2-3 cr	
919/615	715/743	Bricklaying	10-12	12-15	2-3 cr	
920/616	716/744	Building & Property Maint	10-12	12-15	2-3 cr	
921/617	717/745	Cabinet Making & Finish Carp	10-12	12-15	2-3 cr	
922/618	718/746	Carpentry	10-12	12-15	2-3 cr	
923/619	719/739	Computerized Draft Tech	10-12	12-15	2-3 cr	
924/620	720/748	Cosmetology	10-12	12-15	2-3 cr	
925/621	721/749	Culinary Arts	10-12	12-15	2-3 cr	
926/622	722/750	Diesel Truck Technology	10-12	12-15	2-3 cr	
927/623	723/751	Early Childhood Development	10-12	12-15	2-3 cr	
928/624	724/752	Electrical Technology	10-12	12-15	2-3 cr	
929/625	725/753	Electronics/Commun Tech	10-12	12-15	2-3 cr	
930/686	783/791	Health-Medical Professions	10-12	12-15	2-3 cr	
931/687	784/792	Health-Medical Office	10-12	12-15	2-3 cr	
932/688	785/793	Health-Nursing Career	10-12	12-15	2-3 cr	
933/627	727/755	Horticulture	10-12	12-15	2-3 cr	
934/600	700/702	Information Technology Appl	10-12	12-15	2-3 cr	
935/602	704/706	Information Technology Web	10-12	12-15	2-3 cr	
936/628	728/756	Machine Shop Technology	10-12	12-15	2-3 cr	
937/629	729/757	Motor/Marine/Small Eng	10-12	12-15	2-3 cr	
938/631	731/758	Painting & Decorating	10-12	12-15	2-3 cr	
939/632	732/759	Plumbing & Heating	10-12	12-15	2-3 cr	
940/633	733/760	Printing & Graphic Comm.	10-12	12-15	2-3 cr	
941/634	734/761	Public Safety & Security	10-12	12-15	2-3 cr	
942/635	735/762	Business/Marketing/Distrib	10-12	12-15	2-3 cr	
943/636	736/763	Sewing/Clothing Manuf	10-12	12-15	2-3 cr	
944/638	780/765	Upholstery	10-12	12-15	2-3 cr	
945/639	782/766	Welding/Metal Fabrication	10-12	12-15	2-3 cr	
	640/641	Am History Honors	10-12	6	1 cr	
	642/643	Am History Core	10-12	6	1 cr	
	644/645	Am History*	10-12	6	1 cr	
	646/647	Am History - ELA	10-12	6	1 cr	
	649/650	World St - Honors	10-12	6	1 cr	
	651/652	World St - Core	10-12	6	1 cr	
	653/654	World St*	10-12	6	1 cr	
	655/656	World St - ELA	10-12	6	1 cr	
	657/658	AP World History	10-12	6	1.25 cr	

*\*Students will be provided with a curriculum that parallels the curriculum in regular education classes. Each course addresses the students' individual goals and is taught with modifications that address instructional pace, format, and presentation techniques.*

## ART

The art curriculum offers a variety of activities through its various courses. Course work is designed to meet the individual interests, talents and abilities of students. Whether the student is a craftsman, fine artist, or a person who simply enjoys art, there is a program of study to meet his/her interest. Students are encouraged to develop according to their talents and abilities but all students taking art courses will find their creative problem solving skills challenged and their sense of personal identity encouraged.

### **COURSE RECOMMENDATIONS**

Students planning a career in art should consider taking one of the Art Major sequences (Craft or Drawing & Painting) or a combination of the two. The serious art student should also consider taking American and Global Studies as well as AP Art History and any of the Art Elective courses. Both the Drawing & Painting Major and the Craft Major sequences are designed for students deeply interested in art and who are considering one of the many careers available in the visual arts. Students in the Major course sequences are expected to maintain an art journal/sketchbook and participate in an end of year exit exhibition. Students who enjoy art, but are not planning an art-related career, should consider taking the Art Elective courses. The Art Elective series will be offered on a two year rotating schedule. Each year students may choose between a pair of elective courses offered which involve in-depth studies of either 2-dimensional or 3-dimensional design. Students can expect sketchbook homework and written assignments in addition to project creations for both of these electives. Participation in the annual art exhibit is required.

#### **367 LEARNING TO DRAW & PAINT**

**Grades 10-12**

**1 Credit**

Did you ever wish you could draw more realistically? Would you like to learn how to paint in oils? LEARNING TO DRAW & PAINT will focus on developing the young artist's drawing and painting skills as they learn about the Principles of Design and the historical art time periods of the Renaissance to Neoclassical. This content will be the basis for work using a wide variety of media building skills in drawing, painting, color theory, computer technologies and all forms of 2-dimensional design. This is the background experience needed by the serious art student who likes to draw and paint as he/she advances towards the independence of the AP Studio work in their senior year. But the painting hobbyist will enjoy this course as well. Students can expect to keep an art journal/sketchbook and to be assigned written work in support of the curriculum. Participation in the annual art exhibit is required.

#### **368 INTRODUCTION TO CRAFTS**

**Grades 10-12**

**1 Credit**

Do you enjoy working with clay? Fibers? Metals? This class is for you! Students will focus upon creating three-dimensional works to better understand the possibilities and limitations of the media of clay, plaster, wood, and metals as well as paper and fibers. We will focus on the developing artist's use of the Principles of Design and, historically, we will study the art of the Renaissance to the Neoclassical time period. Students will be expected to maintain an art journal/sketchbook; written assignments and reflections upon works created will be used to reinforce concepts addressed in class. All students enrolled are required to participate in the annual art exhibit.

#### **369 ADVANCED DRAWING & PAINTING**

**Grades 11-12**

**1 Credit**

The focus of this course is geared towards the development of a quality studio portfolio suitable for college admission. However, the hobbyist wanting to advance their drawing and painting skills will enjoy this course as well. Students will be thoroughly examining the art forms of the still life, portrait/figure, landscape and graphic arts while using a wide variety of art media and techniques and an advanced use of the elements and principles of design. Each category will also be examined historically from the Romantic period to the Contemporary art of today. Personal art journal work and written assignments can be expected. Attendance on field trips and participation in the annual art exhibit are required. *Prerequisite(s): Learning to Draw & Paint or permission from the Instructor.*

#### **370 ADVANCED CRAFTS**

**Grades 10-12**

**1 Credit**

Advanced Crafts is intended for the development of a quality portfolio that will demonstrate mastery of a wide variety of three-dimensional media. Students will look to the work of artists from the Romantic to the present day for inspiration, with a particular focus on contemporary crafts. Students will be expected to maintain an art journal/sketchbook; written assignments and reflections upon works created will be used to reinforce concepts addressed in class. All students enrolled are required to participate in the annual art exhibit. *Prerequisite(s): Introduction to Crafts or permission from the Instructor.*

**371 AP STUDIO ART****Grade 12****1 Credit**

The focus of this course is the completion of the studio portfolio with the advanced art student developing a personal concentration, or theme, which will result in the production of individual works of art. The work from all previous art classes, in addition to this group of concentration pieces, will become the student's AP Studio Portfolio exam. Outside assignments, written work, attendance on field trips, and participation in the annual art exhibit are required. **Students may choose to take the AP exam at the student's expense.** *Prerequisite(s): Advanced Drawing & Painting or Advanced Crafts or permission from the Instructor. See page 3 – AP criteria.*

**374 AP ART HISTORY****Grades 11-12****1 Credit**

This course is a survey of painting, sculpture, and architecture from the ancient world through the history of art into the 20<sup>th</sup> century. It is intended for students with a deep interest in the field of the arts, humanities, or history. It requires a high degree of academic commitment, as it parallels the content recommended by the College Board in preparation for the AP Art History exam. Students can expect to improve note-taking and writing skills through class activities as well as an in-depth research project completed in conjunction with the Reading Public Museum which culminates in a presentation. Students also have the opportunity to work as docents at the RPM and further their knowledge of the collection at the Museum. **Students may choose to take the AP exam at the student's expense.** *Prerequisite(s): Advanced Drawing & Painting, or Advanced Craft, or American Studies, or Global Studies or permission from the Instructor. See page 3 – AP criteria.*

**375 THEATER ARTS****Grades 10-12****1 Credit**

This fun course explores all aspects of working on the stage! Students participate in theater/acting exercises working with voice, movement and quick thinking as they move on to improvisational skits. Simple play productions suitable for the classroom will be learned and performed. After play/movie analysis work, students will write an original story overview with one scene written in script form. Students then become the directors, actors, set designers and costume creators for their theatrical productions. **Students must be willing to act in front of the class, work with others, and should enjoy creative writing.**

**376 MULTICULTURAL ARTS****Grades 10-12****1 Credit**

This year-long course will examine the idea of "culture". We will examine the traditions and values of different cultures and how the artwork from those cultures reflects those ideas. This will lead to comparisons to our own culture and projects will be a blend of global ideas and a student's own personal culture. A variety of media will be used and both 2-D and 3-D art work will be created along with group work and oral presentations of researched material.

**378 ART ELECTIVE A: 2-D DESIGN****Grades 10-12****1 Credit**

Printmaking! Collage! Paint, paper crafts and more are featured in this course that will focus on two dimensional design compositions. The elements of art will be explored as students learn to draw, paint and create strong compositions using a variety of media. Creative problem solving skills are strengthened as we look at the world of 2-D images that surround us. All students enrolled are required to participate in the annual art exhibit.

**379 ART ELECTIVE B: 3-D DESIGN****Grades 10-12****1 Credit**

Students will focus upon creating three-dimensional works to better understand the possibilities and limitations of the media of clay, plaster, wood, and metals as well as paper and fibers. Students can expect to improve problem solving skills, and learn more about both the elements and the principles of art as we create a variety of sculptural works. All students enrolled are required to participate in the annual art exhibit.

**BUSINESS**

The business education program offers many valuable opportunities for the non-business major. For those who plan to major in some field of business in college, a rudimentary background in Accounting and Data Processing would be a valuable asset. For all students, regardless of their career intentions, there are a number of courses, which would prove valuable.

**240 BUSINESS MANAGEMENT I****Grades 10-12****1 Credit****241 BUSINESS MANAGEMENT II****Grades 10-12****1 Credit**

Business Management is a seminar course for the academic student planning a career in business, as well as for career preparatory students planning to enter the business world after high school or continue on in a business/technical school. This multi-faceted course covers various topics; some tailored to individual interests of students. It includes entrepreneurial techniques, oral and written communication, job search and application techniques, and various business management skills. Field experiences and outside speakers are an integral part of the curriculum as well as the use of student projects to simulate the business world. *NOTE: As these courses are offered in alternating years, it is not necessary to take Business Management I prior to Business Management II. These are non-sequential courses.*

**243 BASIC ACCOUNTING****Grades 10-12****1 Credit**

Basic Accounting is an introduction to the accounting cycle as it pertains to a single proprietorship and partnership for both service and merchandising business. Clerical and analytical skills are developed for recording entries in various journals, keeping ledgers, payroll, preparing worksheets and various financial reports.

**244 ADVANCED ACCOUNTING****Grades 10-12****1 Credit**

This is a one-year course that further develops skills from in Basic Accounting. It teaches students how to keep the records of a partnership and corporation. Topics include departmental accounting, payroll, accounting control systems, updating accounts by adjustment, corporate accounting (stocks, bonds, and dividends) and cost accounting. Advanced computerized accounting is an integral part of this course. *Prerequisite(s): Basic Accounting.*

**245 PERSONAL FINANCIAL PLANNING****Grades 10-12****1 Credit**

Financial planning and self-management skills for the future will be the focus of the course. Areas of study will include planning for educational expenses, personal and household budgeting, taxes, banking, investing, insurance, credit procedures, rights and responsibilities of consumers, and long-range financial planning. Students will be exposed to commercial software applications and internet tools to help enhance their management skills.

**262 DESKTOP PUBLISHING****Grades 10-12****1 Credit**

Develop skills needed in today's workplace by learning desktop publishing. Learn how to combine text, graphs, pictures, and different fonts into documents that look like a publication specialist has done them. Create resumes, flyers, reports, brochures, newsletters, and a variety of other documents. In addition to learning the hardware and software, document design will be emphasized. This is a valuable skill that can give students an edge over other employees in an office environment, in a career that requires writing, or a career in graphic arts. The instructional focus is learning by doing. This year long course will conclude with a final project highlighting what has been learned throughout the course.

**266 COMPUTER PROGRAMMING****Grades 10-12****1 Credit**

This course is designed to be the student's first course in computer programming. It will emphasize the development cycle as a means of creating applications and will provide students with a strong introduction to object-oriented design and programming techniques. Students will learn to write well-written and readable programs using a disciplined coding style, including documentation and indentation standards found in the industry. It will use practical problems to illustrate application-building techniques. *Prerequisite(s): C or better in Algebra 1.*

**267 COMPUTER APPLICATIONS****Grades 10-12****1 Credit**

This course gives the student the opportunity to use a personal computer to become familiar with the various applications in Microsoft Office: Word, Access, Excel, PowerPoint, & Publisher. Students will learn the basic principles and operation of the software Suite as well as specific skill sets associated with each application within Microsoft Office. This course will prepare the students to take the Core MOUS (Microsoft Office User Specialist) exam in Word, Access, and Excel.

## ENGLISH

Lifelong readership, independent learning, and effective communication are the desired objectives of the English program. The four years of required English are structured to provide students with sequential instruction and reinforcement in reading, writing, speaking, and listening skills. Students are grouped according to achievement and ability levels. The purpose of this organization is to facilitate the use of suitable materials, to adjust the pace of instruction, and to employ appropriate methods of teaching. Students in all levels are expected to read and demonstrate satisfactory comprehension on a minimum of four novels in each year 9-12.

**011 AMERICAN STUDIES****Grade 10****2 Credits**

The American Studies course is the honors course for grade 10. It focuses on the history of American development from the post Civil War Era to the present. The “American Personality” is explored through English, social studies, art, and music. Emphasis is placed upon analyzing the evolution of our culture as a whole using primary sources from all four disciplines. The nature of the course is conceptual, and the students should expect to perform proficiently in a wide variety of learning and assessment strategies. Some topics of study include: Westward Expansion, Urbanization and Industrialization, the Gilded Age, Populism, Imperialism, Progressivism, World War I, the Roaring Twenties, the Depression, World War II, the Cold War including the Korean Conflict and the Vietnam War, the Civil Rights Movement, and the Decades Projects from the 1960’s to the 1990’s. *Note: Field trips will be offered in accordance with district policy. A summer reading list will be assigned and required for preparation for this course. Students who complete this program will be expected to enroll in Global Studies, the eleventh grade companion course. This course is scheduled as a double period: 1 credit of English, 1 credit of social studies. Prerequisite(s): Students must have achieved high scores (at least 2 A’s and nothing less than a B in English and social studies courses) and must be recommended by their teachers in order to be scheduled into the course.*

**013 ENGLISH 10 COLLEGE****Grade 10****1 Credit**

This course is required of all sophomores not enrolled in American Studies. It emphasizes studies in grammar, speech, writing, and literature. Within the area of composition the disciplines of writing paragraphs, themes, analyses, and general exposition will be highlighted. The literature of Hemingway, Miller, and Shakespeare is among some of the world literature to be examined.

**021 GLOBAL STUDIES****Grade 11****2 Credits**

Students taking this honors course will be involved in a full-year approach, which includes the subject areas of English, social studies, music, and art. The course includes art, literature, music, and the theater—areas in which human values and individual expressiveness are celebrated. This course traces the history of that expression through the eyes of global cultures. Students must be willing to become involved in learning and participating in these various forms of expression. The various cultures of Asia, Africa, the Middle East, and Europe will be explored from a primarily non-Western standpoint. An emphasis will be placed on contemporary issues facing these regions and their impact across the world today. Selected readings and writings are an integral part of the program. *Note: Field trips will be offered in accordance with district policy. A summer reading list will be assigned and required in preparation for this course. This course is scheduled as a double period: 1 credit of English, 1 credit of social studies. Prerequisite(s): American Studies.*

**023 ENGLISH 11 COLLEGE****Grade 11****1 Credit**

The literature study in this class is a chronological survey of American letters from the Colonial period to present. In addition to regular writing assignments, a formal research paper is required, and the skill of precise writing is developed. Regular vocabulary and spelling work is done, and opportunities for speaking and listening are provided. *This course is required for all juniors not enrolled in Global Studies.*

**030 AP ENGLISH LIT & COMP****Grade 12****1 Credit**

This specialized English course is targeted for the senior honors student planning to take the Advanced Placement test in Literature and Composition. It demands a command of standard written English and proficiency with expository writing. The student will be required to read, analyze, explicate, and respond to selected pieces from the various literary genres. **Students may choose to take the AP exam at the student’s expense.** *Note: A summer reading list will be assigned and required in preparation for this course. See page 3 – AP criteria.*

**031 ENGLISH 12 HONORS****Grade 12****1 Credit**

This course is for the honors English student. Students will develop higher order thinking skills through application and analysis as they encounter a variety of literary genres, periods, and themes. Mastery of written and oral communication skills is practiced daily. A research paper is a course requirement. *Note: A summer reading list will be assigned and required in preparation for this course.*

**033 ENGLISH 12 COLLEGE****Grade 12****1 Credit**

This course is required for all high school seniors not enrolled in 12 Honors or AP English. Students will develop higher order thinking skills through application and analysis as they encounter a variety of literary genres, periods, and themes. Mastery of written and oral communication skills is practiced daily. A research paper is a course requirement.

## ENGLISH ELECTIVES

### **041 WRITING ELECTIVE**

**Grades 10-12**

**1/2 Credit**

The Writing Elective presents students with an exciting opportunity to enrich basic skills. This course goes beyond report, research, and essay-answer writing, to narrative and creative writing. Students will have many opportunities to write stories and poems, journals, and reviews. The Writing Elective is an active process that stresses the relationship between content and form.

### **043 READING ELECTIVE**

**Grades 10-12**

**1/2 Credit**

The Reading Elective course is for students for whom reading is an enjoyable self-selected activity. It is designed to examine and identify each student's current level of language ability; growth in these language skills is then promoted with students' interests and abilities at the forefront of instructional practices. This is achieved in conjunction with coursework that is found in the English curriculum. Key concepts in English courses are reviewed with an added twist of creativity in instruction and assessment. Reading proficiency is stressed as is the ability to increase knowledge in the area of research. Students for whom reading is not highly self-directed or a skilled area will find that the course also will benefit them in relation to their English course.

### **045 SPEECH ELECTIVE**

**Grades 10-12**

**1/2 Credit**

The Speech Elective gives students an opportunity to improve their skills in a variety of speaking and listening situations. This course goes beyond basic informative speech and classroom discussion techniques to the areas of debate, parliamentary procedure, oral interpretation, and speaking for the media. This elective will present speaking as a way of enhancing career potential.

## FAMILY AND CONSUMER SCIENCES

The curriculum of the Family and Consumer Sciences Department, designed to help students meet the challenges of life, includes the study of food, nutrition, interior design, housing, sewing, consumerism, child development, parenting, and independent living. Consumerism, foods, and sewing lab work provide the students with the tools necessary to develop skills for daily living. Nutrition, fitness, and personal development contribute to positive self concepts as students explore individual priorities and goals; learn more about themselves, others, and their environment; and recognize the importance of their role within the family unit. Communication, problem solving, and decision-making are integral components within the curriculum, since these life management skills are essential to self actualization, regardless of life or career directions.

### **300 UNDERSTANDING CHILDREN & PARENTING**

**Grades 11-12**

**1/2 Credit**

This semester course offers students the opportunity to explore the facts, issues, and development involved in being a parent or childcare provider. The student will gain a better understanding of children as individuals and their behavior as it relates to their environment. Topics will include adult responsibilities, attitudes towards children, pregnancy, financial costs, nutritional needs, caring for a newborn, and the developmental stages of children through age five. Students will observe and analyze adult-child interactions through preschool observation, videotape viewing and discussion. Understanding Children and Parenting will help students to prepare for jobs such as day care instructor, nursery school aide, preschool educator, and early childhood/elementary educator. *Note: A nominal fee may be charged for supplies used on projects in the class.*

### **302 FAMILY FOODS**

**Grades 10-12**

**1 Credit**

The aim of this course is to provide the students with a basic knowledge of food and the many facets of consumerism. Principles of food preparation are thoroughly covered as they relate to the amount of time and skill needed to prepare meals. Opportunity is provided for students to exercise self-reliance in food purchasing, food preparation, and serving of the meal. *Note: A nominal fee may be charged for supplies used on projects in the class.*

### **303 MULTICULTURAL FOODS**

**Grades 11-12**

**1 Credit**

This course acquaints the student with international and regional foods in order to develop an appreciation of mealtime customs and home life of other nations and cultural groups. Emphasis is placed on providing the student with an opportunity to experiment, create, and analyze new food flavors, combinations, and methods of food preparation of selected cuisines. *Note: A nominal fee may be charged for supplies used on projects in the class.*

**307 CREATIVE LIVING****Grades 10-12****1 Credit**

This exciting course allows students to express themselves through interior design, food preparation and baking. Students will learn the basics of interior design and learn creative food preparation skills. Students are responsible for some project materials. Students will prepare foods and cater the Art Show in the Spring. *Note: A nominal fee may be charged for supplies used on projects in the class.*

**312 COOK ONCE, EAT TWICE****Grades 11-12****1/2 Credit**

This course focuses on kitchen economics. Food can be even more delicious the second time around. —Cook Once, Eat Twice” is a timesaving, economical approach to “no waste” home cooking that includes make-ahead strategies yielding at least two meals from one preparation. A section on Fusion Cooking explores the art of combining classic ingredients and cooking techniques from different cuisines to transform leftovers into innovative new meals.

**313 FASHION****Grades 10-12****1 Credit**

This course will explore the different facets of fashion from its history, to why we wear what we do, to styles, designers, and the industry. It will look at the elements of design as they relate to fashion and the role of color in fashion. Fibers and fabrics along with clothing care will also be explored. Consumerism as it relates to clothing purchases will be covered. Students will explore careers in the fashion industry. The students will review basic sewing information before beginning construction of a garment. **Students are responsible for purchasing supplies used to make their sewing projects.** Course to be offered alternating years. *This course will be offered pending final board approval.*

**315 FAMILY & CONSUMER SCIENCE****Grade 10****1/4 Credit**

Family & Consumer Science is a required fast-paced, comprehensive course designed to acquaint students with a common sense approach to skills and modern challenges in wellness, nutrition and foods, human development, family and child development, interpersonal relationships, housing and living environments, as well as financial and consumer resource management. Future Career and Community Leaders of America (FCCLA) activities are part of this course. These skills will assist students in managing, with good judgment and creativity, the many challenges across the life span that are related to the family unit in a global society.

**MATHEMATICS**

The Mathematics Department has designed its courses to meet the needs of our students according to their individual preferences. In the academic area, we feel our graduates are prepared to pursue mathematics or any mathematics-related area beyond high school. In the trades and/or consumer area, our courses give our students a firm background to handle the mathematics of the high-tech workforce and everyday living.

**130 ALGEBRA CONNECTIONS****Grades 10-12****1 Credit**

This course is designed for the student who has not successfully mastered Algebra 1 concepts. Using the College Preparatory Mathematics (CPM) curriculum, the course develops algebraic skills within a problem solving context with a major focus on 21st Century Learning Skills such as communication, collaboration, creativity, and critical thinking. Additionally, students will be encouraged to develop positive behaviors in the area of classroom preparation and task completion. *Prerequisite(s): Math teacher recommendation only.*

**111 ALGEBRA 2 HONORS****Grades 10-12****1 Credit****112 ALGEBRA 2 COLLEGE****Grades 10-12****1 Credit**

In this course, students will be expected to solve first and second degree equations algebraically and graphically. Polynomial and exponential functions will also be studied. This material will be used to help students develop a pattern of logical thinking to be applied in both further mathematics and life situations. *Prerequisite(s): Algebra I Honors or Algebra I.*

**131 ALGEBRA 3/GEOMETRY****Grade 11****1 Credit**

This course is designed for students in their junior year that did not have a full year of Geometry. The first semester is intended to follow Algebra 2 where the student will be reinforced with advanced algebra concepts and explore the rigorous content of rational, exponential, logarithmic, and properties of exponents. The second semester will be devoted to the eligible content of Geometry as students are developing deductive reasoning powers. Students will be provided with a problem-based approach to the study of mathematics. This foundation will allow students the options to explore higher mathematics.

**132 ALGEBRA 3/TRIGONOMETRY****Grade 11****1 Credit**

This course is designed for students in their junior year that completed a full year of Geometry in their freshman year. The first semester is intended to follow Algebra 2 where the student will be reinforced with advanced algebra concepts and explore the rigorous content of rational, exponential, logarithmic, and properties of exponents. The second semester will introduce students to the concepts of trigonometry and trigonometric functions. Students will be provided with a problem-based approach to the study of trigonometry. This foundation will allow students the options to explore higher mathematics.

**116 TRIGONOMETRY****Grades 11-12****1 Credit**

This course will serve two purposes: 1) Reinforce the concepts and skills of Algebra and Geometry, and 2) Introduce the concepts of trigonometry and trigonometric functions. The course will include extensive emphasis on applications and modeling that demonstrates the usefulness and applicability of trigonometry in the everyday world. The course will include the study of angles and trigonometric functions, their graphs, and solving equations. *Prerequisite(s): Successful completion of Algebra 1, Algebra 2 College, and Geometry College.*

**114 PRECALCULUS HONORS****Grades 11-12****1 Credit****115 PRECALCULUS COLLEGE****Grades 11-12****1 Credit**

Gives students an understanding of the trigonometric functions, as well as polynomial, rational, exponential, logarithmic functions, and functions involving radicals and offers a foundation for theory of calculus to prepare students for college level study. *Prerequisite(s): Algebra 2 Honors or Algebra 2 College and Geometry College.*

**117 AP CALCULUS AB****Grade 12****1 Credit**

This one-year course is a more reformed, faster paced course that prepares students for taking the AP exam. This course introduces the Theory of Limits and the differentiation and integration processes and their applications. Calculus is taught through a graphical, analytical, and a numerical approach. Students may choose to take the AP exam or apply for Dual-Enrollment at the student's expense. *Prerequisite(s): Students must earn an "A or B" in Precalculus Honors. See page 3 – AP criteria.*

**118 CALCULUS****Grade 12****1 Credit**

This one-year course introduces the Theory of Limits and the differentiation and integration processes and their applications. Course includes a review of analytic geometry, but is not taught as an Advanced Placement course. Calculus is taught through a graphical, analytical, and a numerical approach. Students may choose to apply for Dual-Enrollment at their own expense. *Prerequisite(s): Students must earn a "B" or better in Precalculus Honors or Precalculus College.*

**120 MATHEMATICS FOR THE WORKPLACE****Grades 11-12****1 Credit**

This course is designed for students planning to attend a two-year school or enter the workplace after graduation. Included will be advanced topics in Geometry, Algebra, right triangle trigonometry, and an introduction to quality assurance and process control and statistics. *Prerequisite(s): Geometry College. Please note: Any 11th grader taking this course as their only math class will be scheduled into the math lab for PSSA prep work.*

**121 FINITE MATHEMATICS****Grade 12****1 Credit**

This course is the mathematics of managerial, life, and social sciences. Finite Math will be taught through application and realistic examples to motivate students. Abstract concepts will be introduced through examples drawn from common, real-life experiences. The course will include topics such as Matrices, Probability, and the Mathematics of Finances. The course is design to serve the college bound student pursuing the area of liberal arts or non-math/science fields.

**124 PROBABILITY & STATISTICS****Grades 11-12****1 Credit**

This course is designed to teach students how to use statistical methods to interpret real-life data. Students will make use of graphing calculators and spreadsheets to gain an understanding of descriptive statistics, probability distributions, and hypothesis testing. *Prerequisite(s): Algebra 2 College, Algebra 3/Trig, or Algebra 3/Geometry. Please note: Any 11th grader taking this course as their only math class will be scheduled into the math lab for PSSA prep work.*

**125 AP STATISTICS****Grades 11-12****1 Credit**

This course is structured around the AP Statistics curriculum. Students taking this course may be able to receive college credits if they earn a 3 or better on the AP exam at the end of the year. The students will gain an understanding of how to use statistical methods to interpret real-life data. The students will use graphing calculators as well as computer software. The main topics of the course include organizing data, probability, designing samples and experiments, hypothesis testing, and analyzing data. **Students may choose to take the AP exam at the student's expense.** *Prerequisite(s): Students must earn a "B" or better in Algebra 2 Honors or Precalculus Honors. See page 3 – AP criteria.*

**MUSIC**

The Music Department offers a program of studies for the student who plans to enter a music or music-related field as well as the student who wants to gain an understanding of the fine art of music. The department also provides the opportunity for each student to attain instrumental and vocal performing competence through a variety of performing organizations.

**351 MAJOR MUSIC I****Grades 10-12****1 Credit**

This is a major course which encompasses the four disciplines of music: 1) music theory (harmony & analysis), 2) sight singing, 3) dictation (interval recognition and hearing & writing melodies) and 4) history (starting with chant). This course is designed for students deeply interested in music, students who plan a career in a music-related field, or students interested in the field of elementary education. *Prerequisite(s): The ability to read music; music teacher recommendation.*

**352 MAJOR MUSIC II****Grades 10-12****1 Credit**

This is a continuation of the Major Music I class. *Prerequisite(s): Major Music I (C or better in each of the four disciplines); music teacher recommendation.*

**353 MAJOR MUSIC III****Grades 10-12****1 Credit**

This is a continuation of the Major Music II class. *Prerequisite(s): Major Music II (C or better in each of the four disciplines); music teacher recommendation.*

**355 MIXED CHORUS****Grades 10-12****1/6 Credit**

This is a non-select chorus which rehearses once a cycle during school hours and requires a sectional rehearsal during three separate cycles as well as some out-of-school rehearsal time. This chorus prepares and performs a variety of four-to-six part music with emphasis on elementary and intermediate music reading and vocal production. The Mixed Chorus annually performs at three school concerts. Students are required to purchase appropriate concert and performance attire as needed.

**356 CONCERT CHORUS****Grades 10-12****1/3 Credit**

This is a select chorus which rehearses twice a cycle during school hours and requires one sectional rehearsal during four separate cycles as well as significant evening rehearsal time. This chorus prepares and performs a variety of four to eight part music with emphasis on intermediate and advanced music reading and vocal production. Concert Chorus performs five to seven times per year and participates in Music Department trips that are planned every other year. Students are required to purchase appropriate concert and performance attire as needed. *Prerequisite(s): membership in Mixed Chorus; audition required.*

**357 BLUE BAND****Grades 10-12****1/3 Credit**

This is a non-select band which rehearses twice a cycle during school hours. The band prepares and performs a variety of marching and concert band music and provides music at football games, parades and various concert events. Students are required to attend a 1 week band camp (first full week in August) and Wednesday evening rehearsals during the football season. Five sectionals or a playing exam are required from students quarterly. Students are also required to purchase appropriate concert and performance attire as needed. All students will play a short audition yearly for chair placement. Please contact the band director for additional information. *Prerequisite(s): Performance ability on a band instrument.*

**358 JAZZ BAND****Grades 10-12****1/6 Credit**

These are select jazz ensembles that rehearse both on and off school time. The groups play a wide variety of jazz styles and concentrate on developing improvisational skills. Both bands perform at concerts, jazz festivals and other community functions throughout the spring of the year. Students are required to purchase appropriate attire for performances. *Prerequisite(s): Membership in "Blue Band", audition.*

**365 DIGITAL MUSIC****Grades 10-12****1 Credit**

Students will create, arrange and produce original music composition using digital technology. This class is for music readers and non-music readers alike. Some projects include designing sound loops, original song composition, lyric creation and creating soundtracks. This class is a great opportunity for creative exploration as well as learning some basic tools necessary in career fields such as sound engineering, pop music performance & production and composing. Whether or not you intend to pursue a career in music, you will have many chances to develop as a creative artist. *This course will be offered pending final board approval.*

**PHYSICAL EDUCATION/HEALTH/DRIVER EDUCATION**

*Note:* The Health and Physical Education Program encourages students to participate in a variety of physical activities and classroom activities that will enhance their level of fitness and knowledge of physical and mental well-being. Students are required to pass four years of physical education and two years of health education.

**403 PHYSICAL EDUCATION****Grades 10-12****1/3 Credit**

Physical Education enables students to participate in team and individual sports activities. Physical training techniques and physical fitness tests are utilized to help each student determine their level of fitness. The introduction to sports with a high degree of carry-over value in lifetime fitness is emphasized. Skill development, tournament play, and competition will be available to students who have mastered the basic skills in certain lifetime sports

<b>Team Sports Activities</b>		<b>Individual Sports Activities</b>	
Soccer	Track & Field	Volleyball	Aerobic Exercise
Flag Football	Floor Hockey	Softball	Tennis
Speedball	Modified Lacrosse	Recreational Games	
Basketball	Ultimate Frisbee	Handball	
Volleyball	Recreational Games		
Softball	Handball		

**405 PERSONAL FITNESS****Grades 10-12****1/2 Credit**

The Personal Fitness program is designed so that students will: 1. develop knowledge of, and demonstrate individual development in, physical fitness emphasizing aerobic or cardio respiratory fitness, to promote lifelong physical activity; 2. assess health-related fitness in relation to the following components: cardio respiratory, flexibility, muscular strength, muscular endurance, and body composition; 3. achieve health-related fitness through involvement in an individually designed physical fitness program; 4. maintain personal fitness through regular participation in physical activity. *Prerequisite(s): Students must have achieved a minimum of a C final grade in the previous Physical Education course.*

**404 STRENGTH & CONDITIONING****Grades 10-12****1/2 Credit**

The weight-training program is designed for the student who is interested in improving his/her physical condition. Strength will be enhanced by a program centered around endurance, strength, flexibility, and an understanding of fitness development. Students will keep a record of quarterly attainment, which will provide an over-all picture of improvement in their level of weight training fitness. *Prerequisite(s): Students must have achieved a minimum of a C final grade in the previous Physical Education course.*

**408 STRENGTH & CONDITIONING FOR ATHLETES Grades 10-12****1/2 Credit**

This course is designed for the student-athlete to improve his/her personal strength, enhance skill performance through confidence-building weight lifting exercises and prevent injuries by developing strength in the muscles surrounding all joints (knee, hip, shoulder). Strength development will be accomplished through a program centered around endurance, strength, and flexibility. **This course will meet before school through first period to ensure enough time to accomplish course requirements.** *Prerequisite(s): Students must have achieved a minimum of a C final grade in the previous Physical Education course and be an active member of a school athletic team.*

**415 AQUATICS****Grades 10-12****1/2 Credit**

The Aquatics course is designed for the student who is interested in participating in aquatic activities to enhance their overall cardiovascular fitness levels. Students are oriented to the aquatic environment and will gain or enhance their current level of swimming. Students will develop an individualized aquatic fitness program and improve their swimming ability through various skill levels. Students will be introduced to the aspects of competitive swimming, competitive diving and synchronized swimming. Water sport activities will include water polo, water basketball, inner tube football, underwater hockey, handball, water baseball and volleyball. Personal water safety skills and the use of mask, fins and snorkel will also be implemented as basic survival skills for the aquatic environment. *Students must understand they will be required to swim during each of the class periods.*

**441 HEALTH EDUCATION II****Grade 11****1/2 Credit**

It is recommended that this required course be taken in grade 11. It aids and encourages young people to discover their unique capabilities and responsibilities for developing attitudes and patterns of behavior that promote independent and informed decisions concerning their physical, mental, and social well being. Emphasis is on health careers, life support responses, mental health, personal hygiene, marriage and family relationships, and hereditary and environmental influences.

**450 DRIVER EDUCATION****Grade 10****1/4 Credit**

This required course emphasizes helping young people save lives. Much material in this course is selected because of its relation to the life or death aspect of driving. Behind-the-wheel instruction is given to those students who desire to take advantage of it. Students who will be 16 years old prior the end of the first semester of 10th grade should schedule the fall semester course. For the behind-the-wheel phase, students must be 16 years of age and possess a valid learner's permit or driver's license. Students may arrange for behind-the-wheel training with the instructor. This behind-the-wheel training is scheduled during the student's study halls.

**SCIENCE**

The science program is designed to provide each student with the opportunity to take the fundamental courses in each area of science. In addition, the science program provides electives in the biological, chemical and physical sciences for those students who are interested in a scientific career. The science program is mostly lab-oriented with emphasis on discovery as a means of learning. Students enrolling in lab sciences often need to miss one day per cycle of an elective course in order for that lab science to be scheduled. Students are responsible for work that is missed in such situations.

**154 AP BIOLOGY****Grades 11-12****1.3 Credit Life Science**

The AP Biology course is designed to be the equivalent of a two-semester college introductory biology course usually taken by biology majors during their first year. The topics include molecules and cells (25% of the course), heredity and evolution (25% of the course), and organisms and populations (50% of the course). The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and an appreciation of science as a process. The laboratory component of this course will be centered around the 12 lab experiences that the College Board recommends. The course meets for eight periods in a six-day cycle. **Students may choose to take the AP exam at the student's expense.** Students who have passed Advanced Biology may not schedule this course. *Prerequisite(s): Biology College (A) and Chemistry College (B or better) Students may be required to complete "review" assignments the summer before they take this course. See page 3 – AP criteria.*

**155 ADVANCED BIOLOGY****Grades 11-12****1.2 Credit Life Science**

The course content includes subject matter beyond the scope of general biology. This course includes an in-depth look at comparative vertebrate anatomy and physiology, indicating evidence of possible pathways of evolution. Accompanying dissections may include the frog or mudpuppy salamander, fetal pig, shark, turtle, and snake. Other general areas studied include (but are not limited to) a taxonomic overview of the five and six kingdom systems, the biochemistry of cells, genetics and botany. Throughout the course, various current environmental issues and medical/bioethical issues will be presented. The course meets seven periods in a six-day cycle. Students who have passed AP Biology may not schedule this course. *Prerequisite(s): Biology College and Chemistry College. Students must have achieved a grade of a C or better in Chemistry College.*

**158 AP CHEMISTRY****Grades 11-12****1.3 Credits Physical Science**

Many colleges and universities grant admission with advanced standing in chemistry to students who have passed the Advanced Placement Chemistry test. In addition to covering topics in inorganic chemistry that were not covered in the basic chemistry course, this course prepares students for the Advanced Placement Chemistry Test. Students who are enrolled in AP Chemistry will meet for eight periods in a six day cycle. **Students may choose to take the AP exam at the student's expense.** *Prerequisite(s): Chemistry College/Honors and Algebra 2 College. Students may be required to complete "review" assignments the summer before they take this course. See page 3 – AP criteria.*

**160 CHEMISTRY HONORS****Grades 10-12****1.2 Credits Physical Science****161 CHEMISTRY COLLEGE****Grades 10-12****1.2 Credits Physical Science**

Chemistry is the first lab-based course available to students and is essential for students who intend to pursue post-secondary education immediately after high school. Units of study include describing matter, atomic theory, nomenclature, reactions, stoichiometry, gases, thermochemistry, and kinetics. The topics are based on the Commonwealth's recommended curriculum for the Keystone exams. Honors Chemistry covers these themes in more depth and prepares students to take AP Chemistry if they so desire. This course meets seven periods in a six-day cycle. *Prerequisite(s): Algebra I & Algebra 2 College (strongly recommended to be taken concurrently)*

**162 ADVANCED CHEMISTRY****Grades 11-12****1.2 Credits Physical Science**

Recommended for students who are considering science as a career or for students who would like to continue the study of chemistry. Topics in inorganic chemistry that were not covered in the basic chemistry course are emphasized including atomic theory, kinetics, thermodynamics, equilibrium, and acid/base theory. Lab techniques will be emphasized. The course meets seven periods in a six-day cycle. *Prerequisite(s): Chemistry College (B or better) & Algebra 2 College. Precalculus taken concurrently is preferred.*

**168 ENVIRONMENTAL SCIENCE COLLEGE****Grades 11-12****1 Credit Life Science**

Recommended for college bound students with an interest in the environment and problems that face it. Course content includes an in depth look at topics such as ecosystems, global problems, pollution, human population, and current environmental topics and legislation. Other general areas of study include but are not limited to alternative energy sources and possible solutions to environmental problems. This course also includes project-oriented studies. *Prerequisite(s): Biology and General Physical Science or Chemistry.*

**170 GENERAL PHYSICAL SCIENCE****Grades 10-12****1 Credit Physical Science**

The emphasis of this course is on the introductory concepts and applications of Chemistry and Physics. The course includes units such as Properties of Matter, Density, Force, Motion, Energy and Work, Machines, Elements and Atoms, Compounds and Mixtures, Chemical Formulas, Chemical Reactions and Metals. Students who have passed chemistry or physics may not schedule this course. *Prerequisite(s): Algebra 1 is recommended, but not required. (Can be concurrent)*

**171 CONCEPTS IN PHYSICS****Grades 11-12****1 Credit Physical Science**

Concepts in Physics is an integrated approach to providing students with real world applications of math and science in a technological setting. It blends an understanding of basic principles with practice in "hands-on" applications wherever possible. Concepts including Force, Work, Rate, and Resistance will be discussed through mechanical, fluid, electrical, and thermal systems. Students will design, construct, and implement a culminating "project". Students interested in trade or technology should enroll in this course. *Prerequisite(s): Algebra 1, General Physical Science or Chemistry College.*

**173 PHYSICS****Grades 11-12****1.2 Credits Physical Science**

Physics is a course offering concerned with the principles and laws governing the behavior of the inanimate world around us. As a science, it is a process where one learns more and more of the seemingly endless detail of natural phenomena through experimentation, reasoning, mathematical analysis, and hard academic effort. Recommended for all students anticipating a career in science, mathematics, engineering, or science related areas. The course meets seven periods in a six-day cycle. *Prerequisite(s): Algebra 2 College and Precalculus College/Honors (can be concurrent).*

**178 AP PHYSICS B****Grade 12****1.3 Credits Physical Science**

AP Physics B is a rigorous second year course that covers the topics of Newtonian mechanics, fluid mechanics, thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics. This course is the equivalent of a first year trigonometry-based college course with a laboratory component. The course meets for eight periods in a six-day cycle. **Students may choose to take the AP exam at the student's expense.** *Prerequisite(s): Physics (B or better) and Calculus (can be concurrent) Students may be required to complete "review" assignments the summer before they take this course. See page 3 – AP criteria.*

**174 ADVANCED PHYSICS****Grade 12****1.2 Credits Physical Science**

Recommended for students who intend a science or mathematics career. Emphasis is on extending physical concepts introduced in the basic physics course, a more rigorous mathematical treatment of the development of these concepts, experimenting using more sophisticated equipment which will yield more precise results than that available to basic physics students, and communicating and developing ideas through lab reports. The course meets seven periods in a six-day cycle. *Prerequisite(s): Physics (B or better) and Calculus (can be concurrent).*

**175 HUMAN ANATOMY & PHYSIOLOGY****Grade 12****1.2 Credits Life Science**

This class includes the subject area of biology, mathematics, physics and health. The course explores the components of physiology, anatomy and kinesiology – areas that comprise the human body as a whole. This course looks at the complex components of the body and shows how they work together to provide functioning and a total well-being. The student will be challenged to understand how bodily systems work together to maintain homeostasis, know gross and surface anatomy of the skeletal and muscular systems and, with this knowledge, analyze movement. This course is designed for those students who wish to pursue a profession in the medical field. *Note: Field trips are an important aspect of this course and may involve a nominal cost. Prerequisite(s): Minimum of a B (or approval by instructors) in both Biology College and Chemistry College.*

**SOCIAL STUDIES**

A day doesn't pass in our lives when we are not involved with some aspect of the social studies. Our use of money; our relations with family, friends, and associates; and our rules and regulations all borrow from the broad field known as social studies. By understanding the total system in which we live, the societies in which others live, and the history of man, which brought all of us to this point in time, we should be better able to live more effectively in our society.

**011 AMERICAN STUDIES****Grade 10****2 Credits**

The American Studies course is the honors course for grade 10. It focuses on the history of American development from the post Civil War Era to the present. The "American Personality" is explored through English, social studies, art, and music. Emphasis is placed upon analyzing the evolution of our culture as a whole using primary sources from all four disciplines. The nature of the course is conceptual, and the students should expect to perform proficiently in a wide variety of learning and assessment strategies. Some topics of study include: Westward Expansion, Urbanization and Industrialization, the Gilded Age, Populism, Imperialism, Progressivism, World War I, the Roaring Twenties, the Depression, World War II, the Cold War including the Korean Conflict and the Vietnam War, the Civil Rights Movement, and the Decades Projects from the 1960's to the 1990's. *Prerequisite(s): Students must have achieved high scores (at least 2 A's and nothing less than a B in English and social studies courses) and must be recommended by their teachers in order to be scheduled into the course. Note: Field trips will be offered in accordance with district policy. A summer reading list will be assigned and required for preparation for this course. Students who complete this program will be expected to enroll in Global Studies, the eleventh grade companion course. The course is scheduled as a double period: 1 credit of English, 1 credit of social studies.*

**021 GLOBAL STUDIES****Grade 11****2 Credits**

Students taking this honors course will be involved in a full-year approach, which includes the subject areas of English, social studies, music, and art. The course includes art, literature, music, and the theater—areas in which human values and individual expressiveness are celebrated. This course traces the history of that expression through the eyes of global cultures. Students must be willing to become involved in learning and participating in these various forms of expression. The various cultures of Asia, Africa, the Middle East, and Europe will be explored from a primarily non-Western standpoint. An emphasis will be placed on contemporary issues facing these regions and their impact across the world today using 21<sup>st</sup> Century resources. Selected readings and writings are an integral part of the program. *Note: Field trips will be offered in accordance with district policy. A summer reading list will be assigned and required in preparation for this course. The course is scheduled as a double period: 1 credit of English, 1 credit of social studies. Prerequisite(s): American Studies.*

**061 AMERICAN CULTURES 10 COLLEGE****Grade 10****1 Credit**

The American Cultures course is a continuation of the American Cultures 9 program. It begins with industrialization in the late nineteenth century and moves to the present. Emphasis will be placed on America's role in world events and on the cultural developments in the United States. Some topics include: Urbanization, and Industrialization, the Gilded Age, Imperialism, Progressivism, World War I, the Roaring Twenties, the Depression, World War II, the Cold War including the Korean Conflict and the Vietnam War, the Civil Rights Movement, and contemporary issues that impact the United State today. Using a cultural approach, students will learn to deal with American problems as they affect our daily lives.

**071 WORLD CULTURES COLLEGE****Grade 11****1 Credit**

Using geography, history, political science, economics, anthropology, sociology, art, music, and literature, the student will gain an understanding, appreciation, and respect for different cultures around the world and how they interact with one another. The various cultures of Asia, Africa, the Middle East and Europe will be explored from a primarily non-Western standpoint. An emphasis will be placed on contemporary issues facing these regions and their impact across the world today.

**080 AP US GOVERNMENT & POLITICS****Grade 12****1 Credit**

This specialized one-year course is designed to prepare those students taking the AP exam in United States Government and Politics at the student's expense. Students can anticipate a college level course, with particular emphasis on independent learning. Participants will develop a critical and analytical approach to the study of political science. This is an intense course of study that integrates frequent supplemental reading assignments into curriculum that has been devised by the College Board. Although not formally required, it is recommended that students have taken Global Studies prior to registering for this course. *Please note that AP Government students will also receive instruction in Economics.* **Students may choose to take the AP exam at the student's expense. See page 3 – AP criteria.**

**081 GOV'T & ECONOMICS HONORS****Grade 12****1 Credit****082 GOV'T & ECONOMICS COLLEGE****Grade 12****1 Credit**

The ultimate goal of the Economics and Political Science courses is to give students the tools they need to become active, informed, involved, and responsible citizens. Both of these courses integrate the use of technology into the course of study. Using resources from the Internet, CD-ROM programs, computer programs, and simulations, students will participate in active learning strategies, which stress a student centered model of learning. The curriculum in each course will emphasize practical applications of both economic and political information. Each course will stress the roles and responsibilities of citizens. Current issues in each discipline will be examined from many views, and students will be encouraged to propose workable solutions. Responsibilities which accompany freedoms will be examined in each course. Personal economics will include units on money, banking, saving, investing, and credit. In the higher-level course, various economic systems will be examined. *Government & Economics is a required course; electives cannot be substituted.*

**SOCIAL STUDIES ELECTIVES****086 AP EUROPEAN HISTORY****Grades 11-12****1 Credit**

This is an accelerated and enriched history course with a great emphasis placed on the use of original source materials as the basis of studying a historical period. Through research and study projects, the student will analyze and evaluate critical events of European History. The effect of these events on our world today will be carefully examined. This course will focus on the important events and relationships from 1450 (the high Renaissance) to present. Key areas covered will include the founding and development of Italy and Germany, the progress of Western European Democracies, the race for colonization, and thus the rise and effects of Industrialism. This course will require an in-depth research project and paper on a particular event or events of the periods. Advanced reading and writing will be required of students in this course. Summer reading and writing assignments will be required of students enrolling in this course. Selection of students is based upon teacher recommendations, past performance, and student interest. This course will be offered every other year to interested 11th and 12th grade students. This course will be offered again in the 2011-2012 school term. **Students may choose to take the AP exam at the student's expense. See page 3 – AP criteria.**

**089 AP PSYCHOLOGY****Grades 11-12****1 Credit**

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. This is an intensive course of study that integrates frequent supplemental reading assignments into curriculum that has been devised by the College Board. Summer reading and writing assignments will be required of students enrolling in this course. Prerequisite(s): Students must have a recommendation from a current social studies teacher. **Students may choose to take the AP exam at the student's expense. This course will be offered pending final board approval. See page 3 – AP criteria.**

**090 GENERAL PSYCHOLOGY****Grades 11-12****1 Credit**

The General Psychology elective is a full year elective designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Among all sciences, psychology is unique in the degree to which it speaks to daily living and applies to everyday problems and concerns. Topics of study include: history of psychology; research methods; neuroscience; states of consciousness; developmental psychology; personality theory; psychological disorders and treatments; and social psychology. This course is an academic approach to the study of psychology and is a study-centered course that requires a higher level of reading comprehension. The course will best serve students who are pursuing careers requiring post-secondary education. Requirements for this course include keeping a personal journal/lab notebook, participation in experiments, individual and group projects, writing assignments and unit exams. *Prerequisite(s): Students must have a recommendation from a current social studies teacher.*

**092 LAW IN A CHANGING SOCIETY****Grades 11-12****1/2 Credit**

This course will present concepts related to man and his role in our society, based on law. Prepared in a manner which is useful to the layman, the course will deal with those areas of law which affect our daily lives. Topics covered will include juvenile justice and criminal, civil, and family law. Resource persons will communicate law-related career opportunities.

**093 THIS GENERATION****Grades 11-12****1/2 Credit**

Many events have happened in our society since the 1970's. Changes in entertainment, the family, the world of work, international relations, education, our system of values, and how we see the world around us have had a tremendous impact on our country as a whole. Students will examine those events and discuss what effect they might have on our future.

### TECHNOLOGY EDUCATION

The Technology Education program is an integral part of general education, providing all students with the opportunity to combine tool and material manipulation, critical thinking, and problem solving. The program is designed to provide a broad content base and extended opportunity for experiences with tools and materials. The concept of "learning by doing" is utilized whenever possible. Note: Students who register for a materials course after the beginning of the school year must have teacher approval.

**331 COMPUTER AIDED DRAFTING****Grades 10-12****1 Credit**

This course has been developed to enhance student skills learned in scaling, proportion, technical lettering, multi-view drawings, dimensioning, and auxiliary views in relation to mechanical drawing. AutoCAD software will be utilized to transfer pencil and paper drawings to the computer. Students will explore areas that include software commands, two and three dimensional geometry, and plotting. This course is highly recommended for college prep students considering a field in architecture/engineering.

**332 ARCHITECTURAL DRAWING & DESIGN****Grades 10-12****1 Credit**

This course is designed to provide students with the opportunity to explore the many components in the field of architecture and design. AutoCAD software and the addition of a 3D modeling machine will take the students' drawing experience to the next level. *Prerequisite(s): Computer Aided Drafting.*

**333 ENGINEERING DESIGN****Grades 10-12****1 Credit**

This course has been developed to enhance the student's skills in designing, prototyping and testing. Emphasis will be placed on the research and development of superstructures that shape our world. A Problem solving unit will conclude the engineering experience. *Prerequisite(s): Architectural Drawing and Design.*

**340 ENERGY, POWER, & TRANSPORTATION****Grades 10-12****1 Credit**

This course offers many opportunities for students to explore the technologies related to various fields through both theory and "hands-on" practices in each unit including: Rocketry; Science of Electronics; Sources of Electricity; Circuits, and Power; Electric Motors; Conservation of Energy Sources; Green Energy Technologies; Transportation Systems; Simple Machines and Mechanical Advantage. The second semester of this course will focus on residential wiring and problem solving situations.

**341 COMMUNICATION TECHNOLOGY****Grades 10-12****1 Credit**

This course provides a broad overview of communication systems. Print, audiovisual, and electronic media will be studied as they relate to communications. Students will generate, assemble, and process communicative messages through modern technological processes in the field of printing, layout and design, digital scanning and printing, digital photography, web design, and video production. Elements of electronic communication will be included as they apply to the various fields of communication technology. *Prerequisite(s): Students will be required to provide their own digital camera with manual setting capability and removable storage media.*

**343 WOOD PROCESSES I****Grades 10-12****1 Credit**

Woodworking has existed since the beginning of civilization, and throughout time, many changes have and are taking place. The use of this time-old material is studied through: forestry; design; planning; hand tools; power tools; joints; surface decoration; fasteners; finishing; projects.

**344 WOOD PROCESSES II****Grades 11-12****1 Credit**

This course is a continuation of Wood Processes I with a focus on advanced techniques. The student's creativity will be challenged as they develop and create individualized projects based on topics and techniques covered in class. *Prerequisite(s): Must score a 70% or higher for the year in Wood Processes I.*

**345 MATERIAL PROCESSES****Grades 10-12****1 Credit**

This course covers basic information on tools, machines, materials, and procedures through lecture, demonstration, and application. The primary focus of this course will be to expose students to the processing of both wood and metal with exposure to the materials used in current manufacturing trends. Areas covered will include but are not limited to: layout and design; individual projects; mass production, and finishing techniques.

**400 TV & VIDEO PRODUCTION****Grades 11-12****1 Credit**

This course will introduce students to the basic concepts of storyboard creation, script writing, filming, editing, computer graphic generation, and producing short-subject videos. Students will explore the fundamentals of video equipment operation and video editing through use of editing software applications. A major component of this course will be in live broadcasting the daily announcements with the following production roles emphasized: director, news anchor, lighting engineer, sound engineer, switching board and teleprompter operators. Throughout the year, students will be required to produce videos that highlight school related activities such as sporting events, social gatherings within the school district, and community related events. When possible, students will participate in video production competitions. *Note: Students must have completed Communications Technology and/or teacher recommendation is required.*

**WORLD LANGUAGES**

Dramatic growth in international commerce and travel has increased the need for Americans to communicate with other nations. Government, business, and industry all need people with world language skills. The study of another country and its language broadens cultural insights. Students gain a better perspective of our language and heritage. The World Language Department offers four-year sequences in German and Spanish, and a four-year sequence in Latin. Students may elect one or more languages. *Based on grades in the first level course, students may require permission from the instructor to take subsequent courses.*

**211 GERMAN I****Grades 10-12****1 Credit**

Students acquire basic skills in understanding and speaking German through dialogs, phrases, and conversational practice. Reading and writing skills are begun through the study of sentence structure, paragraphs, and reading selections. Life in the German speaking countries is discussed via current events and text references, as well as modern videos.

**212 GERMAN II****Grades 10-12****1 Credit**

Building upon the basics of German I, students become more aware and capable of using the grammatical structures of the German language. Spoken German is emphasized with the situations becoming increasingly more appropriate to real life. Written and reading exercises gradually increase in both length and cultural awareness. Videos create an awareness of all aspects of German culture. *Prerequisite(s): German I (C or better).*

**213 GERMAN III****Grades 11-12****1 Credit**

Students review and expand upon all the German language skills begun in German I and II, e.g. speaking, reading, writing, and knowledge of grammar. Increasingly difficult selections are read for understanding in German with less emphasis on translation. Oral expression in German is encouraged and used daily. Cultural appreciation is continued and may include a field trip. *Prerequisite(s): German II (C or better).*

**214 GERMAN IV****Grade 12****1 Credit**

During the first semester students will complete the formal study of German grammar and vocabulary. The second semester will consist of advanced readings and oral presentations. Intensive use of spoken German is practiced. Individual seminar projects provide for a culminating experience. A field trip may be included. *Prerequisite(s): German III (C or better).*

**222 LATIN I****Grades 10-12****1 Credit**

This course is offered to any high school student who has not completed the Latin major program at the middle school. Cambridge Latin Unit I follows the life and family of Lucius Caecilius Iucundus, a prosperous banker and merchant who resided in Pompeii. Roman cultural topics such as the Baths, government, the education system, gladiatorial shows, the Forum, slavery, and of course, the eruption of Mt. Vesuvius are explored. Emphasis is placed on learning basic Latin syntax and vocabulary development. Students are also exposed to Roman mythology.

**223 LATIN II****Grades 10-12****1 Credit**

Cambridge Latin Unit 2 tells the story of the invasions of Britain by Emperors Claudius and Caesar. In this unit the main character is Salvius, a prosperous Roman lawyer, senator, and judge who lived in Britain in 81 AD. Cultural topics which are explored include life in Roman Britain and Alexandria, Egypt as well as Egyptian religion, astrology, science, and medicine. Emphasis is placed on vocabulary development and writing skills. The study of Latin more detailed syntax continues as the students learn all case uses and tenses of verbs. The study of Roman culture again includes mythology. *Prerequisite(s): Latin I (C or better) or Latin 7 and 8.*

**224 LATIN III****Grades 10-12****1 Credit**

Cambridge Latin Unit 3 continues to explore Roman Britain and focus on cultural topics such as superstitions, Roman religion, travel and communication in the Roman world, and the Roman Legions. The focus of the culture returns to Rome as Roman engineering, philosophy, entertainment, and the Roman Forum are explored. Vocabulary continues to be strongly emphasized, and the study of Latin syntax includes the subjunctive mood, participles, gerundives, purpose clauses, and result clauses. *Prerequisite(s): Latin II (C or better).*

**225 LATIN IV****Grades 11-12****1 Credit**

The setting of the storyline in Cambridge Unit 4 is Rome and the country side. Cultural topics which are explored include marriage, the senate, the court system, and government. This unit also examines the writings of such noted Roman writers as Catullus, Petronius, Horace, Ovid, and Vergil in selected passages. Vocabulary development is still strongly emphasized, and new grammatical concepts which are learned include the passive voice, the subjunctive mood, gerunds, and fearing clauses. *Prerequisite(s): Latin III (C or better).*

**232 SPANISH I****Grades 10-12****1 Credit**

In this first-year course, students are exposed to the Spanish language and the culture of those who speak it. Listening and speaking skills necessary for conversation are developed. Grammar is introduced and students begin to read and write in the target language. Basic vocabulary is learned to enable students to communicate with Spanish speakers.

**233 SPANISH II****Grades 10-12****1 Credit**

Students continue to build upon skills attained in Spanish I. More complicated grammar structures, including the past tenses, are presented. Students are expected to produce more of the target language with a higher degree of accuracy. Their study of the culture of Spanish-speaking countries is also furthered. *Prerequisite(s): Spanish I (C or better).*

**234 SPANISH III****Grades 10-12****1 Credit**

The third-year course uses and further refines language skills learned previously. Included are short stories and other literary excerpts, as well as items of cultural interest, oral projects, written essays, and vocabulary units. Advanced grammar is studied. *Prerequisite(s): Spanish II (C or better).*

**235 SPANISH IV****Grades 11-12****1 Credit**

The main objective in this language course is to develop students' communication skills in Spanish by using the target language at all times and in different situations. This course will continue to develop their knowledge of Spanish in all four skills; listening, reading, writing, and speaking along with an appreciation for the culture, art, history, and literature of the Spanish speaking world. *Prerequisite(s): Spanish III (C or better).*

## INDEPENDENT STUDY

Students may participate in an independent study program to explore, in-depth, any subject area of interest by working one-on-one with a teacher familiar with the subject. Areas are chosen by the student after discussions with a school counselor and the teacher in charge. All independent study programs are for seniors only who want to explore an area not covered in the regular curriculum. Credits earned by an independent study must be credits beyond those required for graduation; and they may not substitute any course required for graduation. These credits are in addition to the normal course load for a student.

Students in an independent study program must be capable of completing the project with a minimum of teacher supervision and in addition to their regular schedule of classes. Application forms for this program are available in the guidance office. Programs must be approved by the principal in the spring prior to the Independent Study taking place.

- 801 Independent Study - Art**
- 803 Independent Study - Audiovisual**
- 805 Independent Study - Business**
- 807 Independent Study - Computer**
- 809 Independent Study - English**
- 811 Independent Study - World Languages**
- 813 Independent Study - Family and Consumer Sciences**
- 815 Independent Study - Mathematics**
- 817 Independent Study - Music**
- 819 Independent Study - Physical Education/Health/Driver Ed**
- 821 Independent Study - Science**
- 823 Independent Study - Social Studies**
- 825 Independent Study - Technology Education**

**XVII. SAMPLE SCHEDULE**

After selecting your courses for next year, use this worksheet to plan your time. This schedule chart is helpful when determining the number of study halls you will have and to check if all courses you select will fit into your schedule. Don't worry about what periods your classes will be, but rather how many periods per cycle each course uses in your schedule.

	<b>Period 1</b>	<b>Period 2</b>	<b>Period 3</b>	<b>Period 4</b>	<b>Period 5</b>	<b>Period 6</b>	<b>Period 7</b>	<b>Period 8</b>
<b>Day 1</b>								
<b>Day 2</b>								
<b>Day 3</b>								
<b>Day 4</b>								
<b>Day 5</b>								
<b>Day 6</b>								

## YOUR FOUR-YEAR PLAN

Use this worksheet to plan your program for grades nine through twelve. In the space provided, list the courses, levels, and credits for the courses you have completed, are taking this year, and plan to take in the future. As you plan your program, be sure to consider your future career and educational goals as well as the graduation requirements.

YEAR	GRADE 9 ____ - ____	CREDIT	GRADE 10 ____ - ____	CREDIT	GRADE 11 ____ - ____	CREDIT	GRADE 12 ____ - ____	CREDIT
ENGLISH								
SOCIAL STUDIES								
MATHEMATICS								
SCIENCE								
ARTS & HUMANITIES								
PHYSICAL EDUCATION								
CAREER EX/ENG APP								
HEALTH 1/HEALTH 2								
DRIVER ED/FCS								
ELECTIVE								
ELECTIVE								
ELECTIVE								
ELECTIVE								
ELECTIVE								
<b>TOTAL CREDITS/YEAR</b>								

## COURSE SELECTIONS for 2011-2012 – Student Copy

Current  
Name \_\_\_\_\_ Grade \_\_\_\_\_ Phone # \_\_\_\_\_

**DEADLINE FOR REQUESTING SCHEDULE CHANGES IS MAY 6th!\***

\*Students not turning in forms on time risk losing their 1<sup>st</sup> choice electives.

Level/Course Recommended	Teacher Initials	Subject Area	Course Number	Course Title	Credits
		English			
		Social Studies			
		Math			
		Science			
		World Language**			
		Physical Education			
		Driver Education (10 <sup>th</sup> )			
		Family & Consumer Science (10 <sup>th</sup> )			
		Health II (11 <sup>th</sup> )			
		Career & Technology Center Area (RMCTC)			
		Electives			
		<b>(Please list a total of <u>2 credits</u> in this area**)</b> <b>**If World Language is chosen, only <u>one</u> more credit is needed here.</b>			
		Chorus			
		Band			
<b>TOTAL</b>					

		Back-up Electives in Order of Preference			
		<b>(Please list at least <u>2 credits</u> in this area!)</b>			

**All students must pick a minimum of six majors (filling up 7 out of 8 periods).**

\_\_\_\_\_  
Student Signature & Date

\_\_\_\_\_  
Parent/Guardian Signature & Date

**Parent/Guardian must sign and date this form before returning it to Guidance.**

## COURSE SELECTIONS for 2011-2012 – Guidance Copy

Current  
Name \_\_\_\_\_ Grade \_\_\_\_\_ Phone # \_\_\_\_\_

**DEADLINE FOR REQUESTING SCHEDULE CHANGES IS May 6th!\***

\*Students not turning in forms on time risk losing their 1<sup>st</sup> choice electives.

Level/Course Recommended	Teacher Initials	Subject Area	Course Number	Course Title	Credits
		English			
		Social Studies			
		Math			
		Science			
		World Language**			
		Physical Education			
		Driver Education (10 <sup>th</sup> )			
		Family & Consumer Science (10 <sup>th</sup> )			
		Health II (11 <sup>th</sup> )			
		Career & Technology Center Area (RMCTC)			
		Electives			
		<b>(Please list a total of <u>2 credits</u> in this area**)</b> <b>**If World Language is chosen, only <u>one</u> more credit is needed here.</b>			
		Chorus			
		Band			
<b>TOTAL</b>					

		Back-up Electives in Order of Preference			
		<b>(Please list at least <u>2 credits</u> in this area!)</b>			

**All students must pick a minimum of six majors (filling up 7 out of 8 periods).**

\_\_\_\_\_  
Student Signature & Date

\_\_\_\_\_  
Parent/Guardian Signature & Date

**Parent/Guardian must sign and date this form before returning it to Guidance.**