

Parents/Guardians:

The Program of Studies booklet for St. Marys Area High School provides the necessary information that students and their parents/guardians need to make curriculum decisions that will best suit their son/daughter. Course selection is a very serious responsibility. The faculty, school counselors, and administration of the high school are anxious to assist you in this important process.

A minimum of twenty-four and one quarter credits as well as specific curriculum requirements are required for graduation from St. Marys Area High School. Each student **MUST** carry a minimum of seven (7) credits per academic year and complete specific curriculum requirements. Students are ability grouped in English, Math, Science, and Social Studies so that they will be able to achieve their maximum academic potential. To help our students prepare for lifetime sports; our physical education department emphasizes sports that have carry-over value for adult life. All courses in the high school are offered on a co-ed basis.

In addition to our College Preparatory curriculum the St. Marys High School offers six cluster areas in the College/Technical Preparatory curriculum: Building Construction Occupations (BCO), Business Occupations Marketing & Management (BMM), Diversified Occupations (DO), Engineering-Related Technology (ERT), Health-Related Technology (HRT), and Metal Working Occupations (MWO). Each cluster area has supporting courses in computers or drafting. Personal Development is a course taken by all freshmen designed to develop their personal, interpersonal and decision-making skills while assisting them in identifying potential career interests. The College/Tech-Prep curriculum is designed so that students can enter the workforce or choose to continue their education at the collegiate or technical level by pursuing a two or four year degree.

As you review this booklet you should remember that the courses selected will be for the next school year. We have a deadline of no schedule changes after June 30th except for administrative error or academic concerns. Schedule changes for academic reasons will not be considered after the third week of the semester. **No exceptions.** Please review the content of this booklet carefully.

We must be able to determine accurate information for staffing and facilities for the next school year so that we may order the necessary books, supplies, and equipment. It is important when choosing electives to select alternatives because courses that have insufficient registration will not be offered.

PERTINENT INFORMATION

The selection of a program of study is always a serious responsibility. Today's choices will greatly influence the future career of each student and making those choices is not an easy task. However, plans must be formulated and this planning guide is designed to help each student plan a high school program wisely.

When students select a program of study, they must give careful thought to their native abilities, past academic achievements, willingness to work, and future educational and vocational goals. This might be an overwhelming task for students were it not for the fact that parents, teachers, and counselors stand ready to assist them.

Each student will complete an election blank for the next academic year. Students, parents, and high school counselors will affix their signatures to the election blank as an indication of their approval.

Completion and approval of the student course election blank does not guarantee the elected course to the student. Scheduling requirements and minimum student load will be factors involved in the final determination of course offerings. Please be aware of the following information:

1. Students must elect courses within their curriculum required for graduation as described in this publication.
2. Students are cautioned to elect a sufficient number of courses necessary to total seven (7) units of credit per year. A maximum number of courses and credits elected for one year will be determined in consultation with parents and counselors.
3. Students may elect any course listed provided they meet prerequisite course requirements. We may not be able to meet all requests due to facility and staff limitations. Students must select an alternate for every elective. Your alternate choice may appear in your final schedule. Be sure to take time selecting both electives and alternates.
4. In all sequential disciplines (foreign languages, mathematics, English, sciences, business occupations, etc.) a student must satisfactorily complete the earlier course before continuing the sequence. If a student fails a course, it will automatically be rescheduled for the following school year unless it is retaken through summer school, correspondence, or tutoring.
5. June 30th will be the deadline for altering course selections for the following year. Changes deemed necessary by the administration and those required because of failed course work will be made following that date.

SPECIAL EDUCATION CURRICULUM

6. The Special Education courses are determined by student's IEP. A current list of these courses is available in the Special Education office or in the course description section of this booklet. Adaptations to regular education classes for students with special needs will be detailed in each student's IEP.

CHECK LIST

Because the task of selecting a personal program of studies is extremely important and somewhat complicated, the following check list should prove helpful in your preparation of course selections; however, be certain that you read this entire program thoroughly and carefully, thereby avoiding oversights and mistakes in your selections:

1. Scan the material, reading major headings in order to have some idea what is included in this publication.
2. Think carefully about your goals after graduation. Do you plan further education (i.e. college, trade school, on-the-job training)? Do you plan to enter the workforce directly from high school? Do you intend to join the Armed Forces? With these goals in mind, carefully read each curriculum description along with its requirements for graduation.
3. Read carefully the requirements for graduation from St. Marys Area High School. You will note that some requirements are state mandated and some are local school board requirements. Be sure that your course selections also meet the minimum requirements for your chosen curriculum, as curriculum requirements must also be met for graduation.
4. Read, study, and investigate the course descriptions listed in this publication.
5. Make a list of those courses, which seem to be related to your goals(s).
6. If all courses check out in relation to the goal(s) you have established, prepare the final course election blank. Check with your counselor if you need additional information.

REQUIREMENTS FOR GRADUATION

For graduation the Pennsylvania Department of Education mandates satisfactory completion of twenty-one credits of study in grades 9, 10, 11, and 12 and also gives authority that "other requirements for graduation may be established at the discretion of the school district...". Accordingly, the St. Marys Area School District has made the total credit requirement for graduation twenty-four and one-fourth credits with an established minimum of seven (7) credits per year. This includes the local requirements of classroom work in Driver's Training, Computer Applications, Speech, Economics, Personal Development and a fourth year of Mathematics. The required credits that must be completed for graduation include the following:

1. English (4 credits)
 - a. English 1
 - b. English 2
 - c. English 3
 - d. English 4
 2. Social Studies (3 credits)
 - a. American Culture Since 1877 or AP United States History
 - b. World Culture or AP European History
 - c. Economics/American Government or Accelerated Economics
 3. Arts and/or Humanities (2 1/2 credits)
 - a. Economics (1/2 credit) or Accelerated Economics (1 credit for eligible students)
 - b. American Government (1/2 credit)
 - c. Speech (1/2 credit for College Prep and 1/4 credit for College/Tech-Prep)
 - d. Elective (1 credit)
 4. Science (College/Tech Prep 3 credits) (College Prep Regular 4 credits/College Prep Accelerated 4.5 Credits)
 - a. Earth Science
 - b. Biology or Biological Science
 - c. Chemistry, Physics
 - d. Advanced Science (Anatomy/Physiology or Engineering Related Technology I may be substituted for Advanced Science for students in the College Prep Regular curriculum who have completed Physics).
 5. Mathematics (4 credits) (Accounting may not be substituted for math credit)
 6. Physical Education - 4 years (2 credits)
 7. Computer Applications (1/2 credit) - Grade 9
 8. Personal Development (1/2 credit) - Grade 9
 9. Driver's training class (1/4 credit) – Grade 10
 10. Health (1/2 credit)
 11. Four and one-half (4.5) additional credits
- Total 24.25 credits

In addition, the road phase of driver's training may be scheduled at no credit. This is done during the school year with seniors given first consideration and only during a student's scheduled study hall. It is also offered after school and during the summer months.

Schedule changes for academic reasons will not be considered after the third week of the semester.

Credits earned in the eighth grade or earlier will not count as any part of the credits required for graduation from the senior high school; however, an eighth grade credit in German, Spanish or Algebra will meet the prerequisite requirements for German 2, Spanish 2, or Algebra 2.

To receive credit in any subject a grade of seventy percent (70%) or better must be earned for the final mark. A required subject that has been failed must be made up by either tutoring under conditions acceptable to the school administration, attendance at Summer School which is approved by the Principal and the High School Counselor, correspondence or repeating the failed subject during the next regular school year.

Career Portfolio—Senior Project Outline

As defined by Pennsylvania school law 5.214, all students shall complete a project in one or more areas of concentrated study under the guidance and direction of the high school faculty. The purposes of the project, which may include research, writing, or some other appropriate form of demonstration, is to insure that the student is able to apply, analyze, synthesize and evaluate information and communicate significant knowledge and understanding. St. Marys Area School District senior projects will be a natural continuation towards a successful exit from the Career Pathways for All Students system. The projects will be career focused and/or service oriented in nature, including but not limited to the following outline of assignments.

Freshman Year—Personal Development Class

In Personal Development Class, each student will search for career information utilizing appropriate resources to explore different careers of their interest. Reflecting on the information that they have found in terms of their own career choices, students will write a three page reflection paper specifying what they have discovered and why they made the career choices that they did. This information will then become part of their portfolio.

Sophomore Year—English Class

Each student will use appropriate resources to access information on post-secondary institutions or agencies for information and catalogs of these institutions. Students will then write a report that will analyze and evaluate the information found in these sources concerning a career field of their interest. Focus here is on cost, credit hours, courses, location, and comparison if relevant, etc. This report will then be included in their portfolio. Each student will also write a resume and accompanying cover letter.

Sophomore Year - Speech Class

Students enrolled in the Tech Prep Curriculum and scheduled in the Tech Prep Speech class will research, outline, and present information pertaining to a chosen career.

Junior Year—Speech Class

Students enrolled in the College Prep Curriculums and scheduled in the junior speech class will research, outline, and present information pertaining to a chosen career.

Senior Year -Project Completion

During the second semester of the junior year, students will choose how to complete their senior project/career exploration and career portfolio. School-to-Work and Co-Op students will have job-related activities that reflect on their career paths from journals to evaluations. College Prep students will have to decide whether to take Career Exploration or Service Learning, one-half credit experiences. This portion of the senior project will be under the supervision of the coordinators of the School-to-Work/Co-Op programs or the Career Exploration/Service Learning coordinator. All senior students will complete a culminating assessment for their English teacher whether it is in the form of an essay, speech, video, or other medium.

Tech-Prep Student's Site-based Work Experience

Tech-prep students will successfully complete all course requirements including some of the following: work journal, resume, interviewing skills, career research, training plan, training agreement, formal class work, paid training hours, and other requirements.

College Prep(Regular or Accelerated) Student's Career Exploration or Service Learning

College Prep students can successfully complete three days of job shadowing observations, a daily journal of observations, a one-page analysis of the potential of the career, research paper, a list of schools, reflection paper, interview, resume, and any other outlined requirements. College Prep students can alternatively choose to successfully complete "Students Tutoring Students" or other approved Service Learning project by completing the required hours, and completing all forms, records, interview, experience and reflection papers, journal, evaluation, and other outlined requirements.

*Update: TBA – Summer 2011

Accelerate Your Future

ADVANCED CREDIT COURSES

Several opportunities are available for students to receive college level credit while still in high school. Programs are currently offered through Mount Aloysius College, Saint Francis University, Clarion University and Penn State DuBois.

College in the High School – Mount Aloysius College and St. Francis University

Both of these institutions certify our high school instructors to issue college credits for courses that are already being taught. Students are not required to do work beyond that which would normally be required of the course. There is not an additional final exam upon completion of the course. The fee for this program is normally under \$200 for three college-level credits and is eligible for funding through the Dual Enrollment grant.

Dual Enrollment – Clarion University offers college courses to our students through online courses, on site courses, and through ITV technology. Students pay a discounted tuition rate for Clarion University courses. Courses taken through this program are also eligible for funding through the Dual Enrollment grant.

Jump Start Program – Penn State DuBois offers qualifying juniors and seniors the chance to take college level courses at a 50% tuition reduction. Interested students should contact the admissions office at Penn State DuBois.

ADVANCED PLACEMENT (AP) COURSES

These courses are designed to give students an academic experience similar to that of a college level course. Students should expect to complete at least one hour of preparation outside the classroom for every hour spent in the classroom. Upon completion of an AP course, students are eligible to take the corresponding AP Exam, usually given during early May with a registration deadline of January 31st. The cost is approximately \$80 - \$90 per exam. It is **strongly** recommended that students take the AP Exam as some colleges accept AP scores in place of college credits. Requirements to enroll in an AP course at the St. Marys Area High School are as follows: a minimum grade of 94% or higher in the preceding course and teacher recommendation. Special consideration is given on a case by case basis at the request of the parents. AP courses offered at the high school include AP Senior English, AP United States History, AP European History and AP Physics. Find specific course descriptions for each AP course listed with the other courses in each subject area.

ARTICULATION AGREEMENTS

Being enrolled in Specific Program of Studies through our CTE Program can make you eligible for benefits under the statewide articulation agreements. Articulation agreements have been made with area post-secondary institutions in order to foster a smooth transition for College/Tech Prep students from high school to post-secondary education. Some of the agreements include guaranteed admission to specific programs, diagnostic testing, advanced placement, tutoring services, or other special services. Each year we are getting more of our Program of Studies approved through the state, which would entitle students to the benefits of the agreements under their particular program. Currently a student that has successfully completed our Health Related Occupations Program would benefit from this program. For more information go to <http://collegetransfer.net/SearchforCourseEquivalency/tabid/100/default.aspx> Type: PA Bureau of Career and Technical Education in the space marked Transfer from College.

Class Rank

Administrative Procedures for Determining Class Rank

Class ranking at St. Marys Area High School is computed on the basis of a weighted point average. There are two factors which influence the raw grades.

Factor one is the influence of the credit value of a course. Credit value for each course is found in the program of studies book.

Factor two is a listing of the two levels of course difficulty. A listing follows and will be annually updated and published in the program of studies book. Level one courses carry a factor of 1.0. Level two courses carry a factor of 1.10.

Each course grade is multiplied by factor one and by factor two. The products are then summed and divided by the total credits.

Listing of Factor 2

1.10	1.0
German 3	All other courses
German 4	
German 5	
Spanish 3	
Spanish 4	
Spanish 5	
Algebra II Accelerated	
Algebra 3-Trig	
Geometry Accelerated	
Calculus	
Calculus 2	
Adv. Science Chemistry Review	
Adv. Science Topics in Biology	
Adv. Science Genetics	
Adv. Science Optics	
Adv. Science Elect. and Magnetism	
Adv. Science Organic Chemistry	
Anatomy/Physiology	
Biology with Lab	
Chem. Study with Lab	
AP Physics	
Engineering Tech Lab II	
Health Tech Lab	
Accelerated English - Jr.	
AP English – Sr.	
Statistics	
Analysis	
Accelerated Economics	
Accelerated Computer Science	
AP European History	
AP United States History	
Dual Enrollment	

*Distance Learning Courses will be weighted at the discretion of the District.

BASIC PROGRAM OF STUDIES

The following is the minimum program required for all students.

9th Grade

English 1
American Culture since 1877/ AP US History
Science
Mathematics
Physical Education
Computer Applications/Personal Development
Electives

10th Grade

English 2
World Cultures/AP European History
Science
Mathematics
Physical Education
Driver Education (Classroom phase)
Speech (Tech-Prep students)
Electives or Tech Prep Requirements

11th Grade

English 3
World Culture/AP European History
Mathematics
Health
Speech (College Prep students)
Science
Physical Education
Electives or Tech Prep Requirements

12th Grade

English 4
Economics (1/2 year) (Full year if Accelerated
Economics)
American Government (1/2 year)
Mathematics
Science (College Prep)
Physical Education
Electives or Tech Prep Requirements

Note: Although the program of studies is devised to permit students to schedule more than one credit in English, mathematics, and/or social studies in a given year, it is still mandatory that each student schedule at least one credit in mathematics, English, and social studies each year. Physical Education must be scheduled every year for all students.

ST. MARYS AREA SCHOOL DISTRICT POLICY
Pennsylvania System of School Assessment
(Adapted from Board Policy 127.1 dated November 8, 2010)

The St. Marys Area School District recognizes the importance of the Pennsylvania System of School Assessments (PSSA) in evaluating the academic growth of its students. The district expects all of its eligible students to participate in the PSSA test and to give their best effort at all times. This is especially important as PSSA scores as well as other district assessments are also used as placement guidelines for scheduling purposes.

The district also recognizes that a number of students who participate in the PSSA testing may not be able to score at the Proficient level. Therefore, the district has established this policy that will be used to support the administration and faculty as they remediate and assist identified students scoring in the Basic and/or the Below Basic levels.

Students who are not Proficient on the PSSA reading and mathematics tests will be **required** to attend tutoring sessions, complete intensive courses, or the equivalent. Students must attend at least 75% of the total sessions held for each subject required.

Students who scored below Proficient on the 11th grade tests must attend tutoring sessions or the equivalent and take the PSSA retest during their 12th grade year. If a Proficient score is not earned on the retest, students **must** continue to attend tutoring sessions or the equivalent offered by the district and complete a district administered retest.

This program will require time within student schedules to be conducted. Students whose curriculum requires Co-Op education will be required to demonstrate proficiency on PSSA exams **before** participation in the Co-Op program. Students whose curriculum does not require Co-Op education will be required to demonstrate proficiency on PSSA exams **before** participation in some or all elective courses or study halls.

Failure to participate in the above outlined program could result in the following consequences:

- ❑ Seniors who do not complete the required subject tutoring sessions and do not complete the district administered retest will not be eligible to graduate from St. Marys Area High School
- ❑ Any student who does not complete the required subject remediation sessions and does not complete the district administered retest, will not be able to participate in school-sponsored athletics, extracurricular activities, clubs and/or trips. This exclusion could extend into the following school year if requirements are not met.
- ❑ Excused absences from required tutoring sessions will be allowed in specific instances only and are approved at the discretion of the building principal.

*Students with an Individualized Education Plan (IEP) who scored at the Basic or Below Basic level on the PSSA reading or math tests will receive individual improvement plans. The IEP team in conjunction with the Office of Special Services will develop the improvement plans.

SCHEDULE CHANGE INFORMATION

PLEASE REVIEW THE FOLLOWING GUIDELINES **BEFORE** REQUESTING A SCHEDULE CHANGE.

- Changes to student schedules will not be considered once the school year begins, except in cases of administrative error or academic issues. The deadline for this type of change is the 15th day of the semester. Schedules are normally mailed during the summer, giving you enough time to review your course selections prior to the start of the school year.
- You **cannot** drop or change an elective that you selected as a first choice or alternate on your course selection sheet completed in the spring. Please take your time when selecting courses.
- The time of day that you have gym or lunch cannot be changed unless you have a documented medical reason for the change. If this type of change is requested, you must provide medical documentation.
- After the 15th day, yearlong classes can only be changed with the approval of the principal.
- Requests to switch teachers will not be considered.
- Students are required to enroll and maintain a minimum credit load of 7.0 credits every year.
- **If the above criteria are met,** students must complete a Schedule Change Request form and submit it to the Guidance Office. After the counselors review your request and **if** the change is possible, the student must obtain parental permission to complete the schedule change.

METAL WORKING OCCUPATIONS (48.0599) - Prepares individuals to become employable in a variety of metal working occupations. Includes setting up and operating machine tools, metal fabricating, forming, and cutting machines, assembling of metal products and structures, practices related to ferrous and nonferrous foundries and welding and cutting processes. Instruction is provided also in the use of hand and portable power tools and in making computations related to work dimensions and the physical properties of materials. Metals are cast, formed (powder metal), shaped, molded, heat treated, cut, twisted, pressed, fused, or stamped. This curriculum includes instruction in drafting including computer-assisted components.

METAL WORKING OCCUPATIONS (MWO)

Grade 10

Course	Credit
English II	1
Integrated Math II, Integrated Algebra I or II, Algebra II Regular, Geometry	1
World Cultures/AP European History	1
Biology or Biological Science, General Chemistry, Chem Study	1
Driver Education/Physical Education /Speech	1
Metal Tech Lab I	2

Grade 11

Course	Credit
English III, Accelerated Junior English	1
Integrated Math III, Integrated Algebra I or II, Integrated Geometry, Algebra II Regular,	1
Geometry Regular, Trigonometry Advanced Algebra, Algebra III Trigonometry	
World Cultures/AP European History	1
Principles of Technology I, General Chemistry,	1
Chem Study, General Physics	
Health/Physical Education	1
Drafting I	1
Metal Tech Lab II	2

Grade 12

Course	Credit
English IV, AP English	1
Integrated Math IV, Integrated Algebra I or II, Integrated Geometry,	1
Integrated Trigonometry, Algebra II Regular, Geometry Regular,	
Trigonometry Advanced Algebra, Algebra III Trigonometry, Calculus	
Economics/American Government or AP Economics with American Government	1
Physical Education	1/2
Drafting II	1
Metal Tech Lab III	1
*Co-op Education/School-to-Career –maximum 2 credits (264 hours)	2
Elective	1

MWO students need to complete the following skilled courses for a total of 360 hours per year:

Drafting 1	Drafting 2	Speech
Metal Lab 1	Metal Lab 2	Metal Lab 3
Skilled Work Experience (Coop Education or School-to Career)		

***CTE students will only be eligible to participate in Co-op if all their required courses are successfully completed prior to their 12th grade year. Co-op is considered a privilege not a requirement.**

BUILDING CONSTRUCTION OCCUPATIONS (46.9999) - Includes classroom, laboratory, and on-the-job experiences in the building and repair of residential and commercial buildings. The instruction includes the basics of carpentry, millwork, plumbing, painting, glazing, electricity, plastering, concreting, brick laying, tile setting, hardware usage, heating, ventilation, waterproofing, roofing, drafting (including computer assisted components), and record keeping.

BUILDING CONSTRUCTION OCCUPATIONS (BCO)

Grade 10

Course	Credit
English II	1
Integrated Math II, Integrated Algebra I or II, Algebra II Regular, Geometry	1
World Cultures/AP European History	1
Biology or Biological Science, General Chem., Chem. Study	1
Driver Education/PE/Speech	1
Building Trades Lab I	2

Grade 11

Course	Credit
English III, Accelerated Junior English	1
Integrated Math III, Integrated Algebra I or II, Integrated Geometry, Algebra II Regular,	1
Geometry Regular, Trigonometry Advanced Algebra, Algebra III Trigonometry	1
World Cultures/AP European History	1
Principles of Technology I, General Chemistry, Chem. Study, General Physics,	1
Health/Physical Education	1
Drafting I	1
Building Trades Lab II	2

Grade 12

Course	Credit
English IV, AP English	1
Integrated Math IV, Integrated Algebra I or II, Integrated Geometry,	1
Integrated Trigonometry, Algebra II Regular, Geometry Regular,	1
Trigonometry Advanced Algebra, Algebra III Trigonometry, Calculus	1
Economics/American Government or AP Economics with American Government	1
Physical Education	1/2
Drafting II	1
Building Tech Lab III	1
*Co-op Education/School-to-Career –maximum 2 credits (264 hours)	2
Elective	1

BCO students need to complete the following skilled courses for a total of 360 hours per year:

Drafting I	Drafting II	Speech
Building Trades Lab 1	Building Trades Lab 2	Building Trades Lab 3
Skilled Work Experience (Coop Education or School-to-Career)		

***CTE students will only be eligible to participate in Co-op if all their required courses are successfully completed prior to their 12th grade year. Co-op is considered a privilege not a requirement.**

DIVERSIFIED OCCUPATIONS (32.0105) - Designed to provide basic skill development in computation, communications, work attitudes and some training in individual occupational areas. This on-the-job training will meet the needs of students whose immediate post-high school plan includes training, which cannot be provided within the existing school offerings. The school and teacher-coordinator will work with the student and an area employer to provide meaningful learning opportunities.

DIVERSIFIED OCCUPATIONS (DO)

Grade 10

Course	Credit
English II	1
Integrated Math II, Integrated Algebra I or II, Algebra II Regular, Geometry	1
World Cultures/AP European History	1
Biology or Biological Science, General Chem., Chem. Study	1
Driver Education/Physical Education /Speech	1
Students must select a minimum of 2.5 credits of skilled course as follows (330 hours):	
Accounting I Web Page Design Marketing Essentials	
Health Careers Principles of Technology Drafting I	
Spreadsheet Computer Tech & Applications I Database	
MWO Lab I BCO Lab I Travel & Tourism	
Sports & Entertainment Marketing	

Grade 11

Course	Credit
English III, Accelerated Junior English	1
Integrated Math III, Integrated Algebra I or II, Integrated Geometry, Algebra II Regular,	1
Geometry Regular, Trigonometry Advanced Algebra, Algebra III Trigonometry	
World Cultures/AP European History	1
Principles of Technology I, Chemistry, Chem Study, General Physics	1
Health/Physical Education	1
Students must select a minimum of 3 credits of skilled courses as follows (396 hours):	
Accounting I Marketing Essentials Web Page Design Database	
Health Careers MWO Lab I MWO Lab II* Spreadsheet	
ERT Lab I* Drafting I Drafting II* Business Law	
BCO Lab I BCO Lab II* Personal Finance Hospitality Marketing	
Medical Terminology	Office Technology & Procedures
Computer Tech & Applications I	Travel & Tourism
Anatomy & Physiology	Principles of Technology I
Principles of Technology II*	Sports & Entertainment Marketing

*Denotes courses with prerequisites.

Grade 12

Course	Credit
English IV, AP English	1
Integrated Math IV, Integrated Algebra I or II, Integrated Geometry,	1
Integrated Trigonometry, Algebra II Regular, Geometry Regular,	
Trigonometry Advanced Algebra, Algebra III Trigonometry, Calculus	
Economics/American Government or AP Economics with American Government	1
Physical Education	1/2
Diversified Occupations Lab (132 hours)	1
*Co-op Education/School-to-Career – maximum 2 credits (264 hours)	2

DO students need to complete the following skilled courses for a total of 360 hours per year:

Speech	D.O. Lab	Skilled Work Experience (Coop Education or School-to-Career)
credits of Skilled Courses in 10 th grade		
3.0 credits of Skilled Course in 11 th grade		

***CTE students will only be eligible to participate in Co-op if all their required courses are successfully completed prior to their 12th grade year. Co-op is considered a privilege not a requirement.**

BUSINESS MARKETING AND MANAGEMENT (CIP Code 520401) - Dedicated to providing students an opportunity to develop fundamental business knowledge and skills. Prepares individuals in all facets of the real world business environment. Students develop business standards and excellence for career preparation, educational advancement, and personal success. Focus areas include marketing, accounting, finance, management, and computer technologies and procedures. Instruction in all skill areas: including, but not limited to, personal skills, computer processing, communication, reading, writing, and math. Highly recommended for students entering the workforce directly out of high school, or pursuing post-secondary education in a business related field.

Grade 10

Course	Credit
English II	1
Integrated Math II, Integrated Algebra I or II, Algebra II Regular, Geometry	1
World Cultures/AP European History	1
Biology or Biological Science, General Chemistry, Chem Study	1
Physical Education/ Driver Education/ Speech	1
Marketing Essentials	1
Accounting I	1
Computer & Technology Applications I – MS Word, Publisher, PowerPoint	½
Elective	½

Grade 11

Course	Credit
English III, Accelerated Junior English	1
Integrated Math III, Integrated Algebra I or II, Integrated Geometry, Algebra II Regular, Geometry Regular, Trigonometry Advanced Algebra, Algebra III Trigonometry	1
World Cultures/AP European History	1
Principles of Technology I or General Chemistry, Chem Study, General Physics	1
Health/PE	1
Personal Finance	½
Spreadsheet Concepts & Design	½
Sports & Entertainment	½
Travel & Tourism Marketing	½
Business Law	½
Elective	½

Grade 12

Course	Credit
English IV or AP English	
Economics/American Government or AP Economics with American Government	1
Integrated Mathematics IV, Integrated Algebra I or II, Integrated Geometry, Integrated Trigonometry, Algebra II Regular, Geometry Regular, Trigonometry Advanced Algebra, Algebra III Trigonometry, Calculus,	
Physical Education	½
Database Concepts & Design	½
Hospitality Marketing	½
Office Technology	½
Web Page Design	½
*Co-op Education/School-to-Career – maximum 2 credits (264 hours)	2
Elective	½

Skilled Courses: Computer Tech I	Spreadsheet Concepts	Database Concepts	Business Law
Marketing Essentials	Sports & Entertainment	Hospitality Marketing	Personal Finance
Web Page Design	Travel & Tourism	Office Technology	Accounting I
Co-op Education/School-to-Career		<i>Recommended Elective:</i>	
	<i>Entrepreneurship</i>		

***CTE students will only be eligible to participate in Co-op if all their required courses are successfully completed prior to their 12th grade year. Co-op is considered a privilege not a requirement.**

HEALTH RELATED TECHNOLOGY (51.9999) - Designed for those students whose career objective is one within the allied health field. It will promote careers in health care and encourage qualified graduates to pursue post secondary education. The program requires a concentration of planned courses in mathematics and science. There are two curriculum selections in this program: one directed toward immediate post-high school employment in health care and the other toward post secondary schooling in health related technical fields. Instruction includes planned courses in medical terminology, anatomy and physiology, clinical laboratory procedures, basic nursing skills, aseptic techniques, and infection control.

HEALTH RELATED TECHNOLOGY (HRT)

Grade 10

Course	Credit
English II	1
Integrated Math II, Integrated Algebra I or II, Algebra II Regular, Geometry	1
World Cultures/AP European History	1
Bio Lab, Chem Study with Lab	1
Driver Education/Physical Education/Speech	1
Computer Technology & Applications I	½
Health Careers	1
Spreadsheet	½

Grade 11

Course	Credit
English III, Accelerated Junior English	1
Integrated Math III, Integrated Algebra I or II, Integrated Geometry, Algebra II Regular, Geometry Regular, Algebra III Trigonometry	1
World Cultures/AP European History	1
Principles of Technology I, General Chemistry, General Physics	1
Health/Physical Education	1
Medical Terminology	1
Anatomy/Physiology	1
Database	½

Grade 12

Course	Credit
English IV, AP English	1
Economics/American Government or AP Economics with American Government	1
Integrated Math IV, Integrated Algebra I or II, Integrated Geometry, Integrated Trigonometry, Algebra II Regular, Geometry Regular, Trigonometry Advanced Algebra, Algebra III Trigonometry, Calculus	1
Health Tech Lab	1
*Co-op Education/School-to-Career – maximum 2 credits (264 hours)	2
Elective	1
Physical Education	½

HRT Students need to complete the following skill courses:

Health Careers	Computer Technology & Applications I	Medical Terminology
Anatomy/Physiology	Computer Technology & Applications II	Speech
Health Technology Lab	Skilled Work Experience (Coop Education or School-to-Career)	
General Chemistry or Chem Study		

***CTE students will only be eligible to participate in Co-op if all their required courses are successfully completed prior to their 12th grade year. Co-op is considered a privilege not a requirement.**

ENGINEERING RELATED TECHNOLOGY (15.9999) - Requires the application of scientific principles, mathematical concepts, and communication and technical skills in the support of a broad range of engineering activities. The student will be prepared to assist the engineer as a technician, knowledgeable in methods and skills of a general nature, as opposed to specific or specialty application. The technical core of the program consists of electricity/electronics, graphics, property of materials, mechanical devices, heating and cooling, fluid power, instrumentation and control, industrial power, computer applications, and robotics. Includes instruction in drafting, including computer-assisted components.

ENGINEERING RELATED TECHNOLOGY (ERT)

Grade 10

Course	Credit
English II	1
Integrated Math II, Integrated Algebra I or II, Algebra II Regular, Geometry	1
World Cultures/AP European History	1
Biology, Bio Science, General Chemistry, Chem Study	1
Driver Education/Physical Education /Speech	1
Drafting I	1
Principles of Technology I	1
Spreadsheet	1/2

Grade 11

Course	Credit
English III, Accelerated Junior English	1
Integrated Math III, Integrated Algebra I or II, Integrated Geometry, Algebra II Regular, Geometry Regular, Trigonometry Advanced Algebra, Algebra III Trigonometry	1
World Cultures/AP European History	1
General Chemistry, Chem Study, General Physics	1
Health/Physical Education	1
Principles of Technology II	1
Engineering Tech Lab I	1
Drafting II	1

Grade 12

Course	Credit
English IV, AP English	1
Economics/American Government or AP Economics with American Government	1
Integrated Math IV, Integrated Algebra I or II, Integrated Geometry, Integrated Trigonometry, Algebra II Regular, Geometry Regular, Trigonometry Advanced Algebra, Algebra III Trigonometry, Calculus	1
Engineering Tech Lab II	1
Database	1/2
*Co-op Education/School-to-Career – maximum 2 credits (264 hours)	2
Elective	1
Physical Education	1/2

ERT students need to complete the following skill courses:

Drafting 1	Computer Technology & Applications II	Speech
Engineering Lab 1	Engineering Lab 2	Principles of Technology 2
Drafting II	Skilled Work Experience (Coop Education or School-to-Career)	

***CTE students will only be eligible to participate in Co-op if all their required courses are successfully completed prior to their 12th grade year. Co-op is considered a privilege not a requirement.**

COLLEGE PREP REGULAR CURRICULUM – Designed to prepare students for entry to a four year college or university. Successful completion of two years of the **same** foreign language is necessary to graduate from this program.

GRADE 10

COURSE	CREDIT
English II	1
Algebra II, Geometry	1
World Cultures/AP European History	1
Biology, Chemistry	1
Spanish II, Spanish III, German II, German III	1
Physical Education	½
Driver Education	¼
Electives	1¼ - 2¼

GRADE 11

COURSE	CREDIT
English III, Accelerated Junior English	1
Geometry, Algebra 3 Trig	1
World Culture/AP European History	1
Chemistry, General Physics	1
Health/Speech	1
Physical Education	½
Electives	1½ - 2½

GRADE 12

COURSE	CREDIT
English IV, AP Senior English	1
Trig/Adv. Algebra, Calculus	1
Economics/American Government or AP Economics with American Government	1
AP Physics, Advanced Science, (Engineering Related Technology I or Anatomy/Physiology can be taken in place of Advanced Science or AP Physics)	1
Physical Education	½
Electives	2½ - 3½

**Note: In order to fulfill graduation requirements, students of SMAHS must complete the “Career Exploration Project” during their senior year. This project must be completed outside of the student’s normal schedule.*

Two math courses may not be scheduled during the same year unless approved by the Principal, School Counselors and parents.

COLLEGE PREP ACCELERATED CURRICULUM – Designed to prepare students for entry to a four year college or university. Two years of the **same** foreign language are necessary to successfully graduate in this program. There is an emphasis placed upon math and science in this advanced program. Students are required to complete four and one half credits in science and five credits in math.

GRADE 10

COURSE	CREDIT
English II	1
Geometry Accelerated	1
World Cultures/AP European History	1
Chemistry Study with Lab	1 1/2
Physical Education	1/2
Driver Education	1/4
Electives	1 3/4 - 2 3/4

GRADE 11

COURSE	CREDIT
English III, Accelerated Junior English	1
Algebra III-Trigonometry	1
World Culture/AP European History	1
Modern Physics	1
Advanced Math (Statistics)	1/2
Health/Speech	1
Physical Education	1/2
Electives	1/2 - 1 1/2

GRADE 12

COURSE	CREDIT
English IV, AP Senior English	1
Calculus	1
Economics/American Government or AP Economics with American Government	1
AP Physics/Advanced Science (Organic Chemistry, Chemistry Review, Cell Biology & Genetics)	1
Advanced Math (Analysis)	1/2
Physical Education	1/2
Electives	2 - 3

**Note: In order to fulfill graduation requirements, students of SMAHS must complete the “Career Exploration Project” during their senior year. This project must be completed outside of the student’s normal schedule.*

Two math courses may not be scheduled during the same year unless approved by the Principal, School Counselors and parents.

COURSE DESCRIPTIONS

The course descriptions are designed to give a summary statement of what the course is about. Further explanation is available from high school teachers, guidance counselors, and administrators. Please note that all courses are offered on a co-educational basis.

BUSINESS EDUCATION

Business education electives are available to all students as long as the prerequisites and grade restrictions are met.

BE0001 ACCOUNTING 1 (Grades: 10, 11, 12---Credit: 1) (132 hours)

Accounting I is the study of the basic accounting procedures: fundamentals of maintaining accurate financial records for a business or individual. Recommended for students pursuing post secondary degrees in business, as well as students entering the workforce.

BE0030 BUSINESS LAW (Grades: 11, 12---Credit: 1/2) (66 hours)

Business Law is a course designed to give students the knowledge and understanding necessary to deal with the day-to-day legal problems encountered by consumers in our business oriented society. The course informs the students of their rights and obligations under the law as well as the need for law in an organized society.

BE0040 OFFICE TECHNOLOGY & PROCEDURES (Grade: 11, 12---Credit: 1/2) (66 hours)

Students who desire to learn what it is like to work in a professional, office environment will learn many necessary skills in the vocational course. Successful students will learn to work individually and as a team; to produce quality, real-to-life results using the latest computer software and office system techniques. Software that will be used is Word, Excel, Access, Outlook, and Power Point from the Microsoft Office package.

BE0080 PERSONAL FINANCE (Grade: 11, 12---Credit: 1/2) (66 hours)

Attention will be devoted to the major areas in which consumers need help in making wise decisions in – budgeting money, using credit, insurance, buying a house or car, banking services, filing tax returns, and planning and investing for retirement. From the study of this course, the student should acquire the information and develop the ability needed to apply problem-solving methods to economic matters in his daily life with his role as a consumer being stressed.

BE0115 COMPUTER TECHNOLOGY & APPLICATIONS I (Grades: 10, 11, 12---Credit: 1/2) (66 hours)

Information Processing teaches the operation of the word processing software, with development of speed and accuracy, personal and business letters, envelopes, tabulations, centering, reports, proofreading, and practical applications through the use of a practice set. A segment of the class will be devoted to using presentation software (Power Point 2000) to design and present professional computerized presentation programs. This course may be taken for personal or academic use for those students with available schedule time.

MTH0150 COMPUTER PROGRAMMING 1 (Grades: 10, 11, 12---Credit: 1/2) (66 hours) Prerequisite: Algebra II

Computer Programming 1 is a one-semester course that teaches students to write computer programs using a structured, high-level computer language. The main emphasis will be on proper usage of basic program instructions, structures, and data features. Some time will be devoted to problem-solving techniques.

MTH0160 COMPUTER PROGRAMMING 2 (Grades: 10, 11, 12---Credit: 1/2)

Computer Programming 2 is a one-semester course that continues the study of the language begun in Programming 1. The material in this course will pick up where the first course left off. Topics covered will be advanced data structures, file manipulation, functions, and algorithm development. This course is designed for the students who want to learn more about computer programming but doesn't want the intensity of AP Computer Science.

MTH0170 ACCELERATED COMPUTER SCIENCE (Grades: 11, 12---Credit: 1) (132 hours) Prerequisite: a minimum grade of 94% in Computer Programming I

AP Computer Science is a full-year, one-credit course designed to teach students to write logically structured, well-documented computer programs using a structured, high-level computer language. Emphasis is placed on the development of programming techniques that lead to the creation of high quality, computer based solutions to real problems. The course's scope is comparable to the material presented in a college introductory course in computer programming.

BE0190 INTRODUCTION TO WEB PAGE DESIGN (Grades: 9, 10, 11, 12---Credit: 1/2) (66 hours) Prerequisite: Computer Applications

This course is intended to provide students with an overview of the tools available to design and develop web pages for the Internet using Microsoft FrontPage Software. Students will learn how to create web pages with formatted text, graphics, hypertext links, tables, frames, and multimedia components. This will be accomplished using lecture and hands-on projects and exercises.

BE0210 HOSPITALITY MARKETING (Grades: 10, 11, 12---Credit: 1/2) (66 hours)

The Hospitality Marketing course provides high school students with an introduction to the growing hospitality industry. The program is designed to prepare students for employment in positions that provide customer-focused services in four pathways; Restaurant Services, Lodging, Recreation and Travel and Tourism. Hospitality operations are located in communities throughout the world. Students taking marketing classes should have the opportunity to participate in the DECA Organization (Student Marketing Leadership Organization).

BE0200 TRAVEL AND TOURISM (Grades: 10, 11, 12---Credit: 1/2) (66 hours)

The Travel and Tourism course provides the student with an understanding of one of the largest industries in the world. Specific applications include the evolution of the tourism industry, destination geography, airlines, international travel, travel by rail, car rentals, cruising, hospitality industry, tours, meetings, and marketing & sales. Students taking marketing classes should have the opportunity to participate in the DECA Organization (Student Marketing Leadership Organization).

BE0270 SPORTS AND ENTERTAINMENT (Grades: 10, 11, 12---Credit: 1/2) (66 hours)

This course will help students develop a thorough understanding of the marketing concepts and theories that apply to sports and sporting events. The areas this course will cover include basic marketing, target marketing and segmentation, sponsorship, event marketing, promotions, sponsorship proposals, and implementation of sports marketing plans. This course will also deal with promotion plans, sponsorship proposals, sports marketing plans, and event evaluation and management techniques. In addition, the course will incorporate an innovative experiential learning program that provides an effective link between the education process and the school's athletic department. Students taking sports marketing will have the opportunity to participate in DECA.

BE0220 DATABASE CONCEPTS AND DESIGN (Grades: 10, 11, 12---Credit: 1/2) (66 hours)

This course is intended to provide students with the fundamental concepts of how databases are being used in business today using Microsoft Access. Topics covered will be data collection, form design, enter and edit data, query the system for specific data and printing meaningful reports. This will be accomplished using lecture and hands-on projects and exercises.

BE0240 SPREADSHEET CONCEPTS AND DESIGN (Grades: 10, 11, 12---Credit: 1/2) (66 hours)

Student will be introduced to one of the most widely used business software today Microsoft Excel. Spreadsheet topics covered will be cell entries, formula writing, cell formatting, moving, copying and additional features involved in building a useful worksheet. This will be accomplished using lecture and hands-on projects and exercises

BE0230 COMPUTER APPLICATIONS (Grades: 9---Credit: 1/2) (Mandated for all students)

The course is designed to help students learn about the functional use of computers. The intent is to teach the use of three common computer applications: word processor, database, and spreadsheet. A brief overview of Microsoft Windows will be included. Some time will also be devoted to the use of the Internet as a resource tool.

BE0250 MARKETING ESSENTIALS (Grades: 10, 11, 12---Credit: 1) (132 hours)

Introduction to Marketing is a full year, one credit course designed to introduce students to the world of marketing and distribution through instruction in the concepts relevant to the flow of industrial and consumer goods. Students will receive an understanding of how our distribution systems play a part in the economy of the United States. National as well as International marketing theories will be presented, and business ethics will be conveyed to students and stressed in relation to personality development, human relations, salesmanship, promotion, and job interviewing. This is a foundation course designed to be a comprehensive base for students interested in pursuing a career related to marketing and distribution. Students participating in this course are eligible to participate in DECA, the student vocational organization.

COOPERATIVE EDUCATION - CAPSTONE CLASS AND WORK EXPERIENCE

This course is designed as an "on-the-job" training program. All technical preparation students who have been successful in their two years of initial preparation are qualified for placement. This program will concentrate on the transfer of skills learned in the classroom to the actual work environment. Placement and pay will be subject to all appropriate labor laws. Supervision will be provided by the employer and the co-op supervisor. In addition, at least one period per week will be scheduled as a "co-op" class which will include exposure to the PA Career Link website and will be taught by the co-op supervisor.

ST111	Cooperative Education
7450	Co-op
7460	Co-op

DRIVERS EDUCATION

DRIVING TRAINING-BEHIND THE WHEEL (Grades: 10, 11, 12---Credit: 0) Prerequisite: Driver Training Class

The driving phase consists of at least six (6) hours of safe driving instruction in actual driving situations. This course is individually scheduled. Students must complete a request form, which is available in the high school office. Whenever possible, seniors will be given first preference, juniors second preference, etc. Students who request driving during the summer, but were not scheduled, MUST complete a request form if they desire driving during the regular school year.

DTC1550 DRIVER TRAINING CLASS (10:2:1/4) Required of Sophomores

The classroom phase consists of at least thirty (30) hours of concentrated study involving a person and the automobile. The course covers such areas as you and other drivers, forces and laws that control driving, driving maneuvers, defensive driving, and driver responsibilities. The classroom phase will prepare one for the driving phase.

ENGLISH

Students must complete at least four credits of English as well as the required credit value in Speech during their four years in high school. Students should consult English teachers and guidance counselors for assistance in making appropriate course selections. Students will be placed by ability in English based upon high school English teacher's and guidance counselor's recommendations.

ENG2030 CLASSICAL NOVEL (Grades: 11, 12---Credit: 1/2)

This elective course will involve a study of novels selected from several cultures, giving students a more intricate understanding of some major concerns of men and women from different areas of the world and different periods of time. Study will concentrate on the major 18th, 19th and 20th century English and Russian novelists who sought some answers to the middle of life and man's place in the universe. Can we today find anything of lasting value in a world that seems to have lost its sense of values as it hurtles toward the tawdry, the absurd, the merely materialistic? Can we, in an age of the anti-hero and the pseudo-hero, find anything truly heroic? These themes will be explored through a careful reading of the works of such writers as Tolstoi, Dostoevski, Hardy, Conrad and others.

ENG2040 CONTEMPORARY LITERATURE (Grades: 11, 12---Credit: 1/2)

This course is recommended to students with a bonafide interest in reading and those students who need to develop reading and comprehension skills. The course will concentrate on the works of living or current (twenty-five years) British or American writers and will include the following: novels, short stories, poetry and essays. While identifying elements of the fiction, poetry or essays, students will be able to relate the ideas and events of the work to their life styles and environment. Papers using proper grammar, punctuation, spelling and paragraph development will be required.

ENG2090 CREATIVE WRITING I (Grades: 11, 12---Credit: 1/2)

Are you looking for a productive, enjoyable, mind-stimulating opportunity for self-expression? Then study the essay, poetry and the short story. The opportunities for expressing yourself will be numerous. What is your personal message? Here is your chance to share your thoughts in an essay, poetry, and evolution, its definition and its types - informal and formal - through the study of essays written by the masters. You will also learn about the structure of short stories and poetry and how they differ from other types of writing by studying some of the best short stories and poetry our culture has produced.

ENG2100 CREATIVE WRITING II (Grades: 11, 12---Credit: 1/2)

This course is a continuation of Creative Writing I.

ENG2120, ENG 2130 ENGLISH I (Grades: 9---Credit: 1)

This course is designed to continue your development of reading and writing skills. [Emphasis is placed on grammar, usage, mechanics, and writing skills to assigned literary units as well as literary terminology.](#)

ENG2125 INTENSIVE ENGLISH I (Grades: 9 -- credit 1 English and 1 Elective)

Intensive English I, a double period course, is designed for freshmen or other students who have not met proficiency on the PSSA Reading exam. Intensive work on the reading anchors with emphasis on teaching eligible reading content that is tested on the PSSA exam.

ENG2150, ENG2160 ENGLISH II (Grades: 10---Credit: 1)

[This is a continuation of skills recognized in English I. In addition, research skills are developed and practiced through the publication of a written term paper. Students continue work on Senior Projects by completing a comparative essay on 3 post secondary schools as well as a resume and cover letter for a part time job.](#)

ENG2170 POETRY REVIEW I (Grades: 10, 11, 12---Credit: 1/2)

This course will discuss in detail significant writings of major poets from various ages, but with a concentration on modern British and American writers. Most of these poems would require more than a single reading, enabling students to make a close examination of the selections they have just read and to experience them anew with added knowledge of the milieu in which they were written. The class will also examine the philosophical underpinnings of the trends in poetry in which each work was composed, as well as pertinent historical and biographical facts, which influenced the production, or literary masterpieces of lasting merit. Time permitting, significant artistic and musical creations, contemporaneously produced by painters and musicians of the age under discussion will be examined. This course will also include reading, oral interpretation, written evaluations and reaction and experiences with writing poetry emulating various styles and forms.

ENG2180 POETRY REVIEW II (Grades: 10, 11, 12---Credit: 1/2) Prerequisite: Poetry Review I

This course is a continuation of Poetry Review I.

ENG2210 INTRO TO MASS MEDIA (Grades: 9, 10, 11, 12---Credit: 1/2)

This elective course will explore the abundant resources currently available in communications media. The course will be both classroom and studio based with **required after school** assignments. Students will be exposed to a studio environment and the basics of media productions. While production will be the main focus, students will learn early level production techniques.

ENG2211 MASS MEDIA I (Grades: 10, 11, 12---Credit: 1/2) Prerequisite: Intro to Mass Media

This one half credit course will be a continuation of Intro to Mass Media with a focus on production. Students will be expected to utilize the studio and its resources to produce programming. This course can be taken at any time after the successful completion of Intro to Mass Media.

ENG2212 MASS MEDIA II (Grades: 11, 12---Credit: 1/2) Prerequisite: Mass Media I

This course is designed for the self-motivated student. Student input about programming will be critical as this class will be responsible for the operation of a fully functional TV studio. The student will be expected to help produce a variety of programs including daily school announcements, sporting event broadcasts, a school news show, and any additional programs that may arise through the course of a school year. Students should be aware that this course will require extensive involvement both before, during, and after the school day.

ENG2221 VOCATIONAL SPEECH (Grades: 10---Credit: 1/4) 33 hours

Vocational speech is designed to develop the student's public speaking skills. Students will speak in formal and informal situations, which will enhance their communication techniques in order to persuade, inform, inspire, entertain, and explain. Researching and organizing materials to develop speeches, analyzing speeches, and regular delivery of speeches will combine to create an effective communicator.

ENG2230 DRAMA I (Grades: 10, 11, 12---Credit: 1/2) Prerequisite: Theatre Art

Drama I is designed for the students who has a sincere appreciation and respect for the theatre and has a desire to convert that appreciation into a talent. Drama I will focus on the **basics** of acting, stage presence, and the theatre. The student will participate in methods of relaxation, vocalization, line-delivery, role scoring, and stage fundamentals. Various activities including monologues, dialogues, pantomimes, improvisations, skits, and plays will rouse the student's acting skill. Stage presence will be enhanced through basic techniques in blocking, stage directions, stage positions, stage business, costuming, setting, lighting, and sound. A strong theatre discipline will be developed and adhered to throughout the course. It is highly suggested that Theatre Arts be successfully completed prior to the student enrolling in Drama I; however, a

professional letter of recommendation or a resume of the student's acting experience may be submitted.

ENG2233 DRAMA II (Grades: 10, 11, 12---Credit: 1/2) Prerequisite: Theatre Arts or Drama I

Drama II is a continuation of Theatre Arts I and Drama I providing the student with a program of study to develop acting skills, stage presence, and theatre knowledge on an **intermediate level**. The student is expected to possess a basic level of acting experience, theatre knowledge, and strong theatre discipline. Drama II is designed for the dedicated and mature actor seeking challenging activities that will expand his/her basic acting experience and theatre knowledge and elevate him/her to the next level. A strong theatre discipline is necessary in order to cultivate the performance level as an individual actor and as a member of an acting troupe. A professional letter of recommendation or a resume of the student's acting experience may be submitted and considered in lieu of the prerequisite course.

ENG2234 DRAMA III (Grades: 10, 11, 12---Credit: 1/2) Prerequisite: 2 of Theatre Arts, Drama I or Drama II

Drama III is a continuation of Theatre Arts I, Drama I, and Drama II incorporating an **advanced study** of techniques and skills in acting. Drama III is designed for the very serious actor and mature student who possesses a strong desire to excel on stage. The art of performance will be the focal point of this course. The student will be challenged to attain his/her optimum natural stage presence through individual and group activities. The student will further develop his/her individual acting skills, leadership skills, communication skills, intrapersonal skills, and interpersonal skills when producing meaningful dramatic productions with other actors. A professional letter of recommendation or a student's resume of acting experience may be submitted and considered in lieu of prerequisite courses.

ENG2235 DRAMA IV (Grades:10, 11,12-Credit:1/2) Prerequisite:2 of Theatre Arts, Drama I, Drama II or Drama III

Drama IV is a continuation of Theatre Arts I, Drama I, Drama II, and Drama III. Drama IV is a challenging course designed for the individual who is a very dedicated actor and an exceptionally responsible student. The student will perform on a **superior level** and will reach new heights both on stage and as an individual. This course will require the student to embrace and participate in the complexities of a full-scale, full-class production from producer to publicity to acting to the curtain call. A superior theatre discipline will elevate each individual's skill level and the overall troupe's performance level. A professional letter of recommendation or a student resume of acting experience will be considered in lieu of the recommended prerequisite courses.

ENG2220 SPEECH (Grades: 11, 12---Credit: 1/2)

Speech is designed to make [the student](#) aware of the [importance](#) of speech in communication by developing [the skills to inform](#), to persuade, to explain, and to entertain in informal and formal speech situations. These concepts are developed by constant practice in organizing materials for speeches, by emphasis on voice and diction, by attention to techniques of speech delivery, by analysis of speeches, and, most importantly, by regular delivery of speeches.

ENG2240 THEATRE ARTS (Grades: 9, 10, 11, 12---Credit: 1/2)

Theatre Arts I is a positive approach for students who wish to **enrich** their understanding and appreciation of the theatre and develop confidence and acting skills through stage activities and acting exercises. Students will sample a flavor of early history drama by touching upon plays from the Greek and Medieval periods and the early 20th century. Students will participate in motivational exercises, stage awareness drills, individual and group pantomimes, improvisational situations, teenage-issue skits, classical skits, and monologues. Students will respect and encourage others to participate in class activities and they will develop and adhere to a theatre discipline code. Theatre Arts I is offered to students as an elective course with no prerequisites.

ENG2410, ENG2420 ENGLISH III (Grades: 11--Credit: 1)

This course is designed to continue your development of reading and writing skills. Emphasis is placed upon the application of grammar, usage, and literary skills to regularly assigned composition units. An intensive vocabulary-building component will be an additional emphasis in course 242 for the college bound student.

ENG2430 ACCELERATED JUNIOR ENGLISH (Grades: 11---Credit: 1) Prerequisite: a minimum grade of 94% in the preceding course and teacher recommendation

AP English is designed for students with above-average ability in English who are planning to attend a four-year college or university. The course will provide students with a background in rhetoric, syntax, and diction in essay writing, and skilled reading and interpretation of literature. This AP course will focus on American Literature and preparation for the Advanced Placement Test in Language and Composition. Students who score well on this test may earn up to three college credits.

ENG2510, ENG2520 ENGLISH IV (Grades: 12---Credit: 1)

[This course is designed to continue the development of speaking, listening, reading and writing skills. One major component of the course is reading and analyzing British, Western and World literature, exploring challenging literature with greater skill for lifetime enrichment and recognizing literary elements and devices. A second major component includes](#)

writing persuasive/argumentative, narrative, and informational compositions. In conjunction with both objectives is enhancement of each student's reading and writing vocabulary.

ENG2530 SENIOR AP ENGLISH (Grades: 12---Credit: 1) Prerequisite: a minimum grade of 94% in the preceding course and teacher recommendation

AP English is designed for students with above average ability in English and who are planning to attend a four-year college or university. The course will provide students with a background in advanced writing skills, active discussion skills, analytical thinking and interpretation of literature. The Senior AP course will focus on English and Western literature and preparation for the Advanced Placement Test in Literature and Composition. Students who score well on the test may earn up to three college credits.

FINE ARTS – ART

Art electives are available to all students as long as prerequisites and grade restrictions are met.

ART3000 INTRODUCTION TO ART (Grades: 9, 10, 11, 12---Credit: 1/2)

Introduction to Art is a half (1/2) credit course elective offered to all students. It is a survey art class that will touch on drawing techniques, drawing media, basic composition and perceptual development. Students will have introduction lessons in perspective drawing, figure drawing, portrait drawing and still life drawing. There is no prerequisite for Introduction to Art.

ART3010 CRAFTS IIA (Grades: 10, 11, 12---Credit: 1/2) Prerequisite: Crafts I

This is a course designed for the person who wants to do craft work that requires special tools and equipment not found at home. It is a semester course. Projects include: natural dye making, illumination and enameling.

ART3020 CRAFTS IIB (Grades: 10, 11, 12---Credit: 1/2) Prerequisite: Crafts I

See Crafts IIA. Additional projects include: pysanky, textile design, and advanced printmaking.

ART3040 ART II (Grades: 10, 11, 12---Credit: 1) Prerequisite: Introduction to Art

Art II is an advanced level art program for students successfully completing Introduction to Art. It will advance the student's awareness by instructing him/her in a higher level of visual perception, perspective drawing and media usage. The students will be introduced to airbrush commercial art, acrylic painting, art history and sculpture.

ART3050 ART III (Grades: 11, 12---Credit: 1) Prerequisite Art II

Art III will involve the student in many of the commercial aspects of art emphasizing, visual communications and design. Project areas will be: poster making, lettering, newspaper advertising, house design, and fashion design.

ART3060 ART IV (Grades: 12---Credit: 1) Prerequisite: Art III

When students have been acquainted with art processes and thought and have developed a proficiency, they are ready to select areas of personal interest. Projects will be more involved and run for greater lengths of time. An emphasis on aesthetic philosophy will develop with the students and their work. Project areas are enameling, printmaking, jewelry, mixed media painting, macrame, sculpture, photography, ceramic work, and airbrush.

ART3070 CRAFTS (Grades: 9, 10, 11, 12---Credit: 1) Same as Crafts 1A and Crafts 1B

ART3080 CERAMICS (Grades: 9, 10, 11, 12---Credit: 1/2)

Ceramics is a course involving the use of clay to make functional and non-functional objects. Emphasis will be placed on original work, and students will have a product of their own making. Ceramics will include the following topics: casting, raku, hand construction, wheel throwing and glazing.

ART3140 STUDIO ART FOR THE NON-ARTIST (Grades: 10, 11, 12---Credit: 1/2)

This one semester course is designed for persons who cannot draw, who feel they have no talent for drawing, and who believe they can never learn to draw. All artwork is done in class and will be of a non-drawing nature. It will include experiences in sculpture, pottery, weaving, calligraphy and jewelry. If you like to do artwork but do not want to draw, consider this course.

ART3150 CAREER ARTS (Grades: 10, 11, 12---Credit: 1/2)

Career Arts is designed to acquaint our students with basic art skills. These are skills that may assist a person in decorating or designing a room, weaving, signs, posters, jewelry and simple toys.

ART3160 CRAFTS IA (Grades: 9, 10, 11, 12---Credit: 1/2)

Some students are more interested in doing artwork that has little connection to drawing and painting. In a crafts course this would be the thing. All work will be done from scratch which would mean that the individuals would produce original work; therefore, having products truly of their own making. Work produced would be of a practical nature to use in the home and daily life. Craftwork will be done in the areas of macrame, batik, weaving, lettering, basketry, casting, oragami, printmaking, and paper mache.

ART3170 CRAFTS IB (Grades: 9, 10, 11, 12---Credit: 1/2)

See course description for ART3160

ISART3200 INDEPENDENT STUDY ART (Grades: 11, 12---Credit: 1/2) Prerequisite Intro to Art and Art II

An independent study program is available only to select students, upon recommendation of the teacher to the high school principal. This course is to be selected as an optional course and students are cautioned that this course may not be counted as part of the minimum graduation requirements.

FINE ARTS - MUSIC

MUS3100/MUS3101 CHORUS (Grades: 9, 10, 11, 12---Credit: 1/2)

Chorus provides an opportunity to perform in Christmas and Spring concerts. These performances consist of different styles and types of music and provide the display of special talents. Chorus members have the opportunity to try out for District Chorus. This course may be taken for a semester or a full year.

MUS3110 MUSIC APPRECIATION (Grades: 9, 10, 11, 12---Credit: 1/2)

This course will introduce the student to the vast musical literature from the past to the present. Students will study elements of music, styles, composers, and periods of history. This course will cover topics of music for the college and non-college bound student.

ISMUS3120 INDEPENDENT STUDY MUSIC (Grades: 11, 12---Credit: 1/2) Students must complete both Music Theory MUS3230 and Music Appreciation MUS3110 before being eligible for Independent Study

MUS3190 CONCERT BAND (Grades: 9, 10, 11, 12---Credit: 1/2) First Semester Only

Band is a course that explores the music written for the band idiom. The music ranges from classical orchestral transcription to Broadway show tunes. Band members have the opportunity to apply for District Band and I.U. #9 Band

MUS3220 JAZZ ENSEMBLE (Grades: 9, 10 11, 12---Credit: 1/2)

Jazz Ensemble is a small ensemble developed to explore jazz, pop and rock music. The ensemble consists of Alto Saxophone, Tenor Saxophone, Baritone Saxophone, Trumpets, Trombone, Bass Guitar, Electric Guitar, Drums and Piano. Jazz Ensemble members have the opportunity to audition for District Jazz Band. The jazz ensemble performs at school and non-school events as well as concerts.

MUS3230 MUSIC THEORY (Grades: 10, 11, 12---Credit: 1/2)

Music Theory will provide a sequential instruction covering fundamental elements of music theory and their application to music literature of the past and of today.

MUS3290 CONCERT BAND (Grades: 9,10, 11, 12---Credit: 1/2) Second Semester Only. See MUS3190 Band for course description.

HEALTH AND PHYSICAL EDUCATION

PE4010 HEALTH (Grades: 11---Credit: 1/2)

Health, a one-half credit course, is required for all eleventh grade students and must be successfully completed prior to graduation. Health instruction includes alcohol, drug and smoking education, HIV/Aids, S.T.D. and noncommunicable

diseases, CPR, good mental and physical health habits, and family living and relationships.

PHYSICAL EDUCATION

PE4025 PHYSICAL EDUCATION (Grades: 9, 10, ---Credit: 1/2)

The physical education department offerings are co-educational and incorporate the lifetime sports concept. This concept emphasizes the teaching of those sports, which will have carry-over value to adult life. All students will be required to spend at least one four and one-half (4 1/2) units in the pool and one four and one-half (4 1/2) units in dance.

PE4046 PHYSICAL EDUCATION (Grades: 11, 12---Credit: 1/2)

The physical education department offerings are co-educational and incorporate the lifetime sports concept. This concept emphasizes the teaching of those sports, which will have carry-over value to adult life. All students will be required to spend at least one four and one-half (4 1/2) units in the pool and one four and one-half (4 1/2) units in dance.

PE4000 PHYSICAL EDUCATION – REPEAT (Grades: 9, 10, 11, 12---Credit: 1/2)

PE4020 ADAPTIVE PHYSICAL EDUCATION (Grades: 9, 10, 11, 12---Credit: 1/2)

This course is reserved for those students who cannot participate in a regular physical education class. Entrance into this class is based upon the recommendations of the physical education instructor, school counselor and school nurse to the high school principal.

FOREIGN LANGUAGES

LANG5020 GERMAN I (Grades: 9, 10, 11, 12---Credit: 1)

This course is an introduction to the German language. It emphasizes basic grammar through dialogues, skills, and readings. Upon completion students will be able to make simple conversation and have an exposure to language and culture.

LANG5030 GERMAN II (Grades: 9, 10, 11, 12---Credit: 1) Prerequisite: German I

This course is a continuance of German I. Most emphasis is on conversation, and grammar is more progressive and complex. Students will write and take part in several skits, dialogues and plays. At the completion of German II students will be able to survive in the foreign country.

LANG5040 GERMAN III (Grades: 10, 11, 12---Credit: 1) Prerequisite: German II

This course is a continuance of German II. More complex grammar skills are discussed and much time is spent on reading the language. After German III students will have a command of German orally, written, cultural and structural.

LANG5050 GERMAN IV (Grades: 11, 12---Credit: 1) Prerequisite: German III

This course deals with short stories dealing with Germany's history. Students will learn the rudiments of German history up until the present day. Students will be able to do complex readings and questions after completing German IV.

LANG5060 GERMAN V (Grades: 12---Credit: 1) Prerequisite: German IV

This course offers the students a chance to broaden their vocabulary. They will be exposed to more serious stories and literature. Upon completion, students will have been exposed to several German writers and be able to talk about them.

LANG5070 SPANISH I (Grades: 9, 10, 11, 12---Credit: 1)

This course will give students basic vocabulary and grammatical concepts for communication and study of the Spanish language. It will also provide an understanding of the values, customs, and cultural differences of Spanish-speaking countries with emphasis on Mexican culture.

LANG5080 SPANISH II (Grades: 9, 10, 11, 12---Credit: 1) Prerequisite: Spanish I

This is a more complex study of the linguistics of the Spanish language. It enables students to communicate comfortably in the language on an informal basis. It also provides a study of Spain, its culture, history, and position in today's world.

LANG5090 SPANISH III (Grades: 10, 11, 12---Credit: 1) Prerequisite: Spanish II

This is the advanced study of the language and cultures of Spanish-speaking countries, with emphasis on Spain. Students will enrich their knowledge by reading short stories and a book in Spanish.

LANG5100 SPANISH IV (Grades: 11, 12---Credit: 1) Prerequisite: Spanish III

This is an advanced study of the Spanish language and people of Hispanic countries and their relationship to the world. Students will enhance their vocabularies and improve their speaking skills by reading current Spanish magazines, short stories and by discussing them in Spanish.

LANG5130 SPANISH V (Grades: 12---Credit: 1) Prerequisite: Spanish IV

This course is a study of Hispanic literature, both classical and current. It uses reading selections from current Hispanic periodicals and Spanish texts. Discussion of the literature is conducted in Spanish.

MATHEMATICS

Students must complete four credits of mathematics to satisfy the requirements for graduation from St. Marys Area High School. Students should consult mathematics teachers and guidance counselors for assistance in making appropriate course selections.

MTHING0601 INTEGRATED MATH I (Grades 9 – credit 1 Math and 1 Elective)

Integrated Math I, a double period course, is designed for freshmen or other students who have not met proficiency on the PSSA MATH EXAM. Intensive work on the math anchors with emphasis on teaching eligible math content that is tested on the PSSA exam.

MTHING0602 INTEGRATED MATH II (Grades: 10---Credit: 1)

Integrated Math II [is a course designed for sophomores enrolled in the College/Tech Prep curriculum. This course addresses the Pennsylvania Department of Education Mathematics Assessment Anchors. The topics included are a further development of the math contained in the five content areas addressed in Integrated Math I: numbers and operations, measurement, geometry, Algebraic concepts, and data analysis and probability. Emphasis will be given to the application of these topics](#)

MTHING0603 INTEGRATED MATH III (Grades: 11---Credit: 1)

Integrated Math III [is a course designed for juniors enrolled in the College/Tech Prep curriculum. This course addresses the Pennsylvania Department of Education Mathematics Assessment Anchors. The topics included are a further development of the math contained in the five content areas addressed in both Integrated Math I and Integrated Math II: numbers and operations, measurement, geometry, Algebraic concepts, and data analysis and probability. Emphasis will be given to the applications of these topics.](#)

MTHING0604 INTEGRATED MATH IV (Grades: 12---Credit: 1)

This is a course designed for seniors enrolled in the College/Tech-Prep curriculum. Topics include: working with statistics; working with probabilities; quality assurance and process control 1; quality assurance and process control 2; spatial visualization; coordinate geometry; logic; and transformations. For some students, quality assurance and process control 1, and quality assurance and process control 2 might be replaced with consumer mathematics. Emphasis will be given to the applications of these topics.

MTH0611 INTEGRATED ALGEBRA I (Grades: 9, 10, 11, 12---Credit: 1)

Integrated [Algebra I is a course designed for the College/Tech Prep student who desires an algebra course with more structure and more depth than provided in the Algebra IAM courses. Topics include: operations on signed numbers, real numbers and their properties, basic transformations used to solve linear equations, problem solving using one variable, inequalities, and the properties of order, rules of exponents, simplifying radical expressions, operations with monomials and polynomials, factoring polynomials, measures of central tendency, box-and-whisker plots and stem-and-leaf plots, and solving problems using rates and percents.](#)

MTH0612 INTEGRATED ALGEBRA II (Grades: 10, 11, 12---Credit: 1) Prerequisite: A grade of 77 or better in Integrated Algebra I

Integrated [Algebra II is a course designed for the College/Tech Prep student who desires an algebra course with more structure and more depth than provided in the Integrated Math courses. Topics include: relations and functions and their graphs, linear functions and their graphs, methods of solving systems of equations, problem solving using systems of equations, system of inequalities, quadratic functions and their graphs, solutions of quadratic equations, basic concepts of probability and statistics, products and quotients of rational expressions, sums and differences of rational expressions,](#)

[proportional relationship in problem solving, and direct and inverse proportions.](#)

MTH0613 INTEGRATED GEOMETRY (Grades: 11, 12---Credit: 1) Prerequisite: Integrated Algebra II

Integrated Geometry is a course designed for the College/Tech-Prep student who desires a geometry course with more structure and more depth than provided in the Integrated Math courses. Topics include: points, lines, and angles; the basic theorems and postulates of geometry and the skills used in writing proofs; triangles; use of congruent triangles; constructions; polygons; areas of polygons and circles; circles; right triangles; ratios and proportions applied to similar triangles; similar polygons; and areas and volumes of solids. While the concept of proof is introduced, the emphasis is placed on the practicality of the above-mentioned topics and not on rigorous proofs.

MTH0614 INTEGRATED TRIGONOMETRY (Grades: 12---Credit: 1) Prerequisite: Integrated Algebra II and Integrated Geometry

Integrated Trigonometry is a course designed for the College/Tech-Prep student who desires a trigonometry course with more structure and more depth than provided in the Integrated Math courses. Topics include: the six trigonometric functions; solution of right triangles; radian measure and circular functions; graphing of trigonometric functions; fundamental identities and verification of identities; inverse trigonometric functions and solution of trigonometric equations; oblique triangles; exponential and logarithmic functions; and the complex number system and polar coordinates. Emphasis is placed on the right triangle approach and the practical uses of the subject.

MTH0619 STATISTICS (Grades: 11, 12---Credit: 1/2) Prerequisite: Algebra II Regular

Statistics is designed as a basic foundation course for those students who will pursue a career in such diverse fields as the physical sciences, the life sciences, and the social and behavioral sciences. Topics include: frequency distributions, measures of location, measures of variation, permutations, combinations, rules of probability, probability distributions, the binomial distribution, Chebyshev's Theorem, the normal distribution, sampling distributions, confidence intervals, tests of hypothesis, and other selected topics as time permits. Graphing calculators are used when applicable. **Note:** This course may be taken as an elective ONLY and cannot be used to meet any portion of the required four (4) credits in mathematics. Juniors shall NOT take the course in the same year as Analysis 620.

MTH0620 ANALYSIS (Grades: 11, 12---Credit: 1/2) Prerequisite: Algebra II Regular and Geometry Regular

Analysis is intended for those students who will pursue a career in which mathematics plays an important role. Topics include: techniques for solving systems of equations, systems of inequalities and linear programming, matrix solutions of systems of linear equations, the algebra of matrices including the inverse of a matrix, determinants and their properties, Cramer's Rule, mathematical induction, arithmetic sequences, geometric sequences, the algebra of vectors including the dot product and the cross product, space coordinates and vectors in three space, lines and planes in space, and graphing parametric equations and polar equations. Graphing calculators are used when applicable. Note: This course may be taken as an elective only and can NOT be used to meet any portion of the required four (4) credits in mathematics. Juniors should NOT take this course in the same year as Statistics-619.

MTH0621 ALGEBRA I REGULAR (Grades: 9, 10, 11, 12---Credit: 1)

[Algebra I Regular is the basic foundation course for a highly academic mathematics program. Topics include: properties of real numbers and the four basic operations with real numbers, solving linear equations, graphing linear equations and functions, writing linear equations, solving and graphing linear inequalities, exponents and their properties, simplifying radicals, ratio and proportion, percents, and polynomials and factoring.](#)

MTH0622 ALGEBRA II REGULAR (Grades: 10, 11, 12---Credit: 1) Prerequisite: A grade of 77 or better in Algebra I Regular

[Algebra II Regular is a continuum of Algebra I Regular. Topics include: review of equations and inequalities; review of linear equations and inequalities, linear equations and functions; correlation and best-fitting lines; systems of linear equations and inequalities; quadratic functions; complex numbers; four basic operations with polynomials; factoring and solving polynomial equations; properties of rational exponents, solving radical equations; exponential and logarithmic functions, inverse and joint variation; four basic operations with rational expressions; solving rational equations, the fundamental counting principle along with permutations and combinations, and an introduction to probability including the addition and multiplications rules.](#)

MTH0623 GEOMETRY REGULAR (Grades: 10, 11, 12---Credit: 1) Prerequisite: Algebra II Regular

Geometry Regular is designed for the student enrolled in the academic curriculum. This course includes elements of both plane and solid geometry along with the concept of proof. Topics include: basic types of angles and angle relationships,

inductive and deductive reasoning, properties of perpendicular lines and parallel lines and planes, congruent triangles, similar triangles and other polygons, basic properties of right triangles, the Pythagorean Theorem, circles, geometric construction and loci, areas of polygons and circles, areas and volumes of common solids, and other topics as time permits.

MTH0624 TRIG-ADVANCED ALGEBRA (Grades: 11, 12---Credit: 1) Prerequisite: Algebra II Regular and Geometry Regular

Trig-Advanced Algebra is intended for that student who may encounter a college entry-level mathematics course or an introductory Calculus course. Topics in Trigonometry include: an in-depth study of the trigonometric functions, triangle trigonometry, the inverse trigonometric functions, trigonometric identities, and solutions to trigonometric equations. Topics in Advanced Algebra include: functions and their graphs, combinations and functions, the inverse of a function, zeros of a function, complex numbers, exponential and logarithmic functions, solution of exponential and logarithmic equations, arithmetic and geometric sequences, conic section, and limits and the tangent line problems and the area problem.

MTH0632 ALGEBRA II ACCELERATED (Grades: 9---Credit: 1) Prerequisite: A grade of 86 or better in Algebra I Regular

Algebra II Accelerated is a challenging extension of Algebra I. A strong background in Algebra I is necessary. Topics include: review of equations and inequalities; review of linear equations and functions; correlation and best-fitting lines; systems of linear equations and inequalities; quadratic functions; complex numbers; four basic operations with polynomials; factoring and solving polynomial equations; properties of rational exponents, solving radical equations; inverse and joint variation; four basic operations with rational expressions; solving rational equations; the fundamental counting principle along with permutations and combinations; and an introduction to probability including mutually exclusive events, independent events and dependent events.

MTH0633 GEOMETRY ACCELERATED (Grades: 10---Credit: 1) Prerequisite: Algebra II Accelerated

Geometry Accelerated includes elements of both plane and solid geometry along with the concept of proof. Topics include: basic types of angles and angle relationships, inductive and deductive reasoning, properties of perpendicular lines and parallel lines and planes, congruent triangles, similar triangles and other polygons, basic properties of right triangles, the Pythagorean Theorem, circles, geometric construction and loci, areas of polygons and circles, areas and volume of common solids, and other topics as time permits.

MTH0634 ALGEBRA III-Trig (Grades: 11---Credit: 1) Prerequisite: Algebra I Regular and Geometry Regular

Algebra III - Trig is designed for those students with an insight and appreciation for mathematics. Topics include: in-depth study of functions, extensive graphing techniques, in-depth study of polynomial functions, the complex number system, exponential and logarithmic functions, sequences and series, the Binomial Theorem, circular and trigonometric functions (wrapping function and right triangle approach to trigonometry), inverse trigonometric functions, verification of trigonometric identities, solution of trigonometric equations, solution of triangles and applications of trigonometry to complex numbers. Graphing calculators are used when applicable.

MTH0636 CALCULUS (Grades: 12---Credit: 1) (It is recommended that the companion course should be Trig-Advanced Algebra (not Algebra III-Trig) if a student is attempting two math courses during his/her senior year.)

Calculus is designed for those students with an insight and appreciation for mathematics. Topics include: analytic geometry (conic sections), limits and their properties, continuity of functions, the derivative and the tangent line problem, differentiation of algebraic and transcendental functions (including implicit differentiation), related rate problems, applications of differentiation (including graphing and optimization problems), the definite integral and the area under the curve problem, integration techniques, inverse functions with a focus on the processes of differentiation and integration, and application of integration (area between curves and volumes), and other selected topics as time permits. Graphing calculators are used when applicable.

COLLEGE/TECH-PREP

MWO7010 METAL WORKING OCCUPATIONS LAB I (Grades: 10---Credit: 2) (264 hours)

Instruction is provided into basic identification, nomenclature and uses of metal, machinery, tools, drawings, operations, safety and care of equipment related to the metal working field. Examples of skills are reading simple drawings, use of measuring equipment, rule, micrometers, and gages. Identification of lathe, mill, grinding, powdered metal, welding machine parts, and identification of metals and their uses.

MWO7020 METAL WORKING OCCUPATIONS LAB II (Grades: 11---Credit: 2) (264 hours)

Instruction in the second year will follow the basic of the first year with more advanced application and problem solving work. The introduction of C.N.C. and N.C. will be introduced. Quality control processes and terminology will be introduced. Field trips and videos will be used to help reinforce the endeavors.

MWO7030 METAL WORKING OCCUPATIONS LAB III (Grades: 12---Credit: 1) (132 hours)

This course should be at a time when a student will work in all areas of the cluster with emphasis being in an area where he has his most interest and ability. On-the-job training or post secondary education should be explored at this time.

DRFT7060 ARCHITECTURAL DRAFTING (Grades: 11, 12---Credit: 1/2) Prerequisite: Successful completion of Drafting I

Architectural drafting will offer drawing techniques of everyday construction. The course will develop an understanding of building materials and their uses and will help students translate these to the drawing of house plans.

DRFT7110 DRAFTING I (Grades: 9, 10, 11, 12---Credit: 1) (132 Hours)

Drafting I is a course designed to cover basic phases of drafting fundamentals. Items covered in this course are lettering, geometric construction, mechanical drafting, layout, pictorial design, and graphic construction. This applied program will be an adjunct to the vocational-technical cluster programs, particularly the building construction, metal working, and engineering related programs. The first semester covers drafting using mechanical drawing equipment, drawing board, T-square, and triangles. The second semester emphasizes the use of computer aided drafting using AutoCAD 2000LT software.

DRFT7120 DRAFTING II (Grades: 10, 11, 12--Credit: 1) (132 Hours) Prerequisite: Successful completion of Drafting I

Drafting II is a course designed to cover basic and advanced phases of drafting. Drafting projects based on competencies developed in Drafting I will be developed and carried out in conjunction with activities and skill development in the specific cluster area of Building Construction Occupations and Metal Working Occupations. Much time and emphasis will be placed on refinement of computer-assisted drafting skills through extensive use of AutoCAD 2000LT software.

DIVL7130 COOPERATIVE EDUCATION-DIVERSIFIED OCCUPATIONS LAB (Classroom Instruction) (Grades: 12---Credit: 1) (132 hours)

This course offers classroom experience for those students whose immediate post-high school plan requires training, which currently cannot be provided within the existing offerings. All technical preparation students who have been successful in their two years of initial preparation are qualified to take this course. Students will meet daily for classroom instruction which will include such general topics as child labor laws, taxes, career exploration, work ethics, human relations, job safety, communication skills, resume writing, interviewing techniques and PA Career Link. Technical related instruction designed to meet the needs of each individual student will also be provided.

714 CO-OP (CAPSTONE WORK EXPERIENCE) (Grades: 12---Credit: 2) (1 credit = 132 hours)

Capstone Cooperative Education is designed for students enrolled in the College/Tech-Prep Program. This job training enhances and puts into practical application their classroom training. Students may be from Health Related Technology, Engineering Related Technology, Building Construction, Metalworking, Diversified or Business. Placement and pay will be subject to all appropriate labor laws and both the employer and the Cooperative Education Supervisor will provide supervision.

7145 SCHOOL-TO-WORK WORK EXPERIENCE (Grades: 12---Credit: 4)

This course can only be taken with the School-to-Work Lab (classroom instruction) and places students who have been successful in their previous high school courses into an actual work environment which will usually be two full school days. The other three days will involve creative scheduling for courses to be taken at the high school. Students who wish to take this course must submit a written application and meet the recommended criteria. This Cooperative Education program is more intensive and placement and pay will be subject to appropriate labor laws. Any student wishing to take this program must meet certain guidelines as established by the School-to-Work Department. Both the employer and the School-to-Work Coordinator will provide supervision and mentoring.

MWBC7270 METAL WORKING SURVEY/BUILDING CONSTRUCTION SURVEY (Grades: 9---Credit: 1/2)

Metal Working Survey is an exposure to the metal working facilities at St. Marys Area High School. Through the use of lecture, demonstration, and hands-on experience, the student will have a beneficial experience, which may help him to make a choice regarding future occupational choices or education. Areas covered will be measurement, sheet metal fabrication, brazing, welding (M.I.G., Stick), cutting (Oxyacetylene, plasma). Machining with metal lathe, drill press, cutoff saws, vertical grinding and surface grinding will also be incorporated into the program. Exposure to powdered metal molding, sizing, and sintering will also be explored.

Building Construction Survey is an exploratory course, which emphasizes exploration of skills and areas of building construction that may assist the student in making a vocational choice in the future. Basic builder's math and measurement skills are reviewed. An introduction to wood as a building material and safety issues is presented. There is also an introduction to many hand tools with emphasis on, safety in use and, identification of usage, rather than proficiency of application. There are hands on practice and take home projects in wood and electricity that allow for practical application of theory.

BLD1TR7170 BUILDING TRADES LABORATORY I (Grades: 10---Credit: 2) (264 hours)

This is a one-year, double period course taught in the Building Construction Occupations laboratory. Instruction is provided in the basic skills of carpentry, electricity, masonry, plumbing, heating, roofing, guttering, insulating, painting, decorating, plastering, record keeping, safety, and theory. Examples of specific skills are wood identification, electrical theory, proper grounding, setting of concrete forms, mortar mixing, measuring copper tubing, insulation material selection, application of paints and cleaning methods.

BLD2TR7180 BUILDING TRADES LABORATORY II (Grades: 11---Credit: 2) (264 hours)

This is a one-year, double period course taught in the Building Construction Occupations laboratory. Instruction is provided in basic and advanced skills of carpentry, electricity, masonry, plumbing, heating, roofing, guttering, insulating, painting, decorating, plastering, record keeping, safety, and theory. Examples of specific skills to be mastered include general construction engineering concepts, cost estimating, cutting and fitting stair stringer, interpretation of electrical drawings, brick laying, basic water and heat supply systems, roofing techniques, plastering applications.

BLD3TR7190 BUILDING TRADES LABORATORY III (Grades: 12---Credit: 1) (132 hours)

This is a one-year, single period course taught in the Building Construction Occupations laboratory. Instruction in the basic areas listed in the two previous trade descriptions will be provided. Examples of specific skills to be mastered include material inventory and accounting, hardware selection, appliance wiring, waterproofing, furnace installation, riveting of metal gutters, striking/cutting techniques. This course will also concentrate on refinement of specific skills needed in the co-op placement as these needs become known through the interaction of the co-op supervisor, instructor, site employer, and student.

PD7200 PERSONAL DEVELOPMENT (Grades: 9---Credit: 1/2) Required for all students

Emphasis in this course will be on development of personal and interpersonal relationships. Coping strategies and decision-making skills will be developed to assist students in making responsible judgments. The course will also focus on the evaluation of each student's own interests and abilities to investigate career choices. Students will be exposed to several technology applications including PA Career Link, Choices and Bridges.

ERT7230 ENGINEERING TECHNOLOGY LABORATORY I (Grades: 11, 12---Credit: 1) (132 hours) Prerequisite: Principles of Technology I

Engineering Technology Lab - I is a one-year course that uses a hands-on approach to prepare students to function in a technical work environment. This collegiate styled offering will stress engineering and mathematical techniques to allow tech-prep and academic students to use scientific principles and concepts for problem solving in practical situations. The course will provide coverage in the topics of engineering vocations, industrial safety, computer applications, materials science, strengths of materials, mechanical systems, hydraulic and pneumatics. Training using the above topics will be used to gain a working knowledge of systems that are used in industry and their scientific basis of functioning. This course is required for the Engineering Related Technology Tech-Prep program and should be scheduled concurrently with Principles of Technology - II.

ERT7240 ENGINEERING TECHNOLOGY LABORATORY II (Grades: 12---Credit: 1) (132 hours)

This senior year, collegiate styled laboratory course will prepare the student with advanced skills in the engineering fields. This offering will stress engineering and mathematical techniques to allow tech-prep and academic students to use scientific principles and concepts for problem solving in practical situations. Topics are to involve: electricity, electronics, instrumentation and control, industrial controls, computer interfacing of devices, robotics, quality assurance, thermodynamics and HVAC (heating, ventilation and air conditioning). This course is mandatory for Engineering Related Technology Tech-Prep students and is to be taken concurrently with their co-op experience.

7245 SCHOOL-TO-WORK CLASSROOM LAB (Grades: 12---Credit: 1) (Classroom Instruction)

This course must be taken with the School-to-Work experience. Students will meet three times a week for classroom instruction, which will include such general topics as child labor laws, taxes, career exploration, work ethics, human relations, job safety, communication skills, resume writing, interviewing techniques and PA Career Link.

HRT7500 HEALTH CAREERS (Grades: 10---Credit: 1) (132 hours)

This course is designed to introduce students to various health careers. Also covered will be the necessary educational requirements as well as the tasks and responsibilities associated with the occupations. The course is a requirement for those enrolled in Health Related Technology and is an elective for students in grade 10, 11, and 12 as space allows.

HRT7510 MEDICAL TERMINOLOGY (Grades: 11---Credit: 1) (132 hours)

This course will investigate the foundations of the language of medicine. Terms used for body descriptions, body systems, medical procedures, disorders and diseases will be learned. The course is a requirement for those enrolled in Health Related Technology and is an elective for 10, 11, and 12 as space allows.

HRT7520 HEALTH TECH LAB (Grades: 12---Credit: 1) (132 hours) Prerequisite: Health Careers and Medical Terminology

Health Tech Lab is a one-year course for seniors in Health Related Technology, who plan to pursue post-secondary education in a health care profession. The course includes infection control, safety, asepsis, laboratory-assisting skills, medical assisting skills as well as advanced patient care skills. This course also uses previously learned skills and knowledge and integrates them with new material to provide students with a holistic approach to patient conditions, treatment, and care.

HRT7540 ANATOMY AND PHYSIOLOGY (Grades: 11, 12---Credit: 1) (132 hours)

Anatomy and Physiology is a one-year course designed to prepare students for health related professions. The course provides students with fundamental concepts of major body systems, diseases and conditions, emergency procedures and first aid, and patient care and is offered to juniors and seniors in Health Related Technology, college preparatory, and scientific curricula. This course is a requirement for those enrolled in Health Related Technology and is an elective for juniors and seniors as space allows.

755 JOB SHADOWING (Grades: 12---Credit: 1/2)

All seniors in either College Prep curriculums must complete a job shadowing experience by the end of the senior year. The student must successfully complete three days of observations, a daily journal of observations, a one-page analysis of the potential of the career, a research paper, a list of post-secondary schools, a reflection paper, an interview, a resume and any other outlined requirements.

ERT7330 ERT/BUSINESS SURVEY (Grade: 9---Credit ½)

The purpose of this course is to expose students to the interesting subject matter covered in the Engineering Related Technology and Business Marketing curriculums.

CAREERS 1, CAREERS 2, CAREERS 3

The content of this program includes 11 work readiness skills standards developed by North Central through input from local businesses. The purpose of this program is to teach skills needed to be successful in the workplace and the opportunity for students to demonstrate competencies. Competency certificates are awarded to students who truly possess the knowledge and skills earned. Students will be shown how to market these new skills to prospective employers, making it easier to get jobs and advance in the workplace. The work readiness skills standards include: Reading in the Workplace, Mathematics in the Workplace, Writing in the Workplace, The Job Candidate, Basic Technology Skills, Identifying Your Future Employer, Safety, Customer Service, Blueprint for Becoming a Highly Valued Employee, Working with Others, and Work Behaviors.

FAMILY AND CONSUMER SCIENCES

COSCI7070 BAKING (Grades: 11, 12---Credit: 1/2)

Learn the basics of properly baking pies, cookies, breads, cakes, and more. Express yourself in the culinary arts.

CS7090 CHILD DEVELOPMENT (Grades: 11, 12---Credit: 1/2)

Do you like working with children? This course studies prenatal development, birth, infancy, preschool children, school-age children, childhood diseases, caring for a sick child, and first aid. An integral part of this course is an in school experience of working with children in a nursery school.

CS7100 ADVANCED CHILD DEVELOPMENT (Grades: 11, 12---Credit: 1/2) Prerequisite: Child Development

Expand your knowledge of childcare. Explore the emotional, social, intellectual, and physical world of children. This course also includes a nursery school experience.

COSCI7210 MEAL PREPARATION (Grades: 11, 12---Credit: 1/2)

Learn to plan, prepare, and serve economical meals properly. Become wiser in today's market place by fighting the budget battle. A unit on pressure-cooking and microwave cooking will also be included.

722 FAMILY LIVING (Grades: 10, 11, 12---Credit: 1/2)

Are you ready for the real world? This course is designed to help with adult roles, consumerism, parenting, life styles, and relationships. A goal for this class is to help you learn how to balance family and work.

SCIENCE

College/Tech Prep students must complete three credits in science to satisfy the minimum requirements for graduation from St. Marys Area High School. College Prep Regular students must complete four credits in science and College Prep Accelerated students must complete four and one-half credits to satisfy the minimum requirements for graduation from St. Marys Area High School. Students should consult science teachers and guidance counselors for assistance in making appropriate course selections.

ADVANCED SCIENCE (Grades: 11, 12---Credit: 1 1/2)

This is a series of courses that must be taken in combination. Each section is described below and grades will be given for each quarter. The course is designed for the college-bound with a strong background in science. College Prep Accelerated students must take all four (4) courses in eleventh grade.

SCI8011 ADVANCED SCIENCE: CHEMISTRY REVIEW (Grades: 12---Credit: 1/4) Prerequisites: General Chemistry or Chem Study

This unit is for those students who are planning to major in a scientific field or for those students who may be required to take college chemistry as part of their college curriculum. **Note:** Chemistry is a 10th grade subject for the majority of college bound students at SMAHS. This course will be part of the Advanced Science course that is an ongoing offering at SMAHS.

SCI8012 ADVANCED SCIENCE: ADVANCED TOPICS IN BIOLOGY (Grades: 11, 12---Credit: 1/4) Prerequisites: Biology, Chem Study

The unit is designed for students planning further education in science related fields. The fundamentals of cell biology and an overview of major groups of biochemical molecules will be covered along with aerobic respiration and metabolism.

SCI8013 ADVANCED SCIENCE: GENETICS (Grades: 11, 12---Credit: 1/4)

This unit is designed for students planning further education in science related fields. The fundamentals of heredity and genetics will be covered.

SCI8016 ADVANCED SCIENCE: ORGANIC CHEMISTRY (Grades: 12---Credit: 1/4) Prerequisite: Chem Study or General Chemistry

This is a unit that deals with the naming and formula writing of the basic organic groups. This course is very beneficial for those students who are planning to enter a chemical or medical related field.

SCI8020 BIOLOGICAL SCIENCE (Grades: 9, 10, ---Credit: 1)

The course focuses on major life processes using a variety of examples from the major kingdoms of organisms with particular attention given to humans as well as simple animals and plants. Ecology is also discussed

SCI8030 BIOLOGY with Lab (Grades: 9, 10---Credit: 1 1/2)

This course is designed for the college bound student and is required for ninth graders in the college prep accelerated curriculum and for tenth graders in the college prep regular curriculum. This course in biology is designed to provide the study of life and living things. It will guide the students in developing and understanding biological concepts based on experimentation and observations. Emphasis is placed on cell specialization, division of labor, interdependence and an understanding of the development of tissues, organs and systems through the comprehensive study of some plants and animals from the simple to the complex. Throughout this course students are also shown how ecology, math, English, history and computer usage relate to the topic of biology.

SCI8050 OUTDOOR SKILLS (Grades: 9, 10, 11, 12---Credit: 1/2)

Outdoor Skills is designed to arouse students' interest in and respect for our natural resources and the environment. Relevant topics such as ecology are taught with an emphasis on conservation. Through lectures, class discussions, Internet searches, films, keeping of daily journals, and the use of resource persons, the students are encouraged to utilize the great outdoors and to find their niche in its wise use so all may enjoy it in their future. Some of the topics covered include Pennsylvania reptiles, amphibians, birds and mammals. Threatened and endangered species are also discussed. Map reading, compass reading, and knot tying are part of the course. Grades are based on daily journals and exams given throughout the course.

SCI8060 EARTH & SPACE SCIENCE (Grades: 9---Credit: 1)

This course is designed to provide the student with a comprehensive background in the following areas: Geology, Meteorology, Oceanography, and Astronomy. It emphasizes the relationships between these disciplines and the balances maintained by our dynamic earth. Emphasis is placed on vocabulary and concepts and less on mathematics and theory.

SCI8070, SCI8080 EARTH & SPACE SCIENCE (Grades: 9---Credit: 1)

This course is designed to provide the student with a comprehensive background in the following areas: Geology, Meteorology, Oceanography and Astronomy. It emphasizes the relationships between these disciplines and the balances maintained by our dynamic Earth. This course should be selected for the college minded student.

SCI8100 GENERAL PHYSICS (Grades: 12---Credit: 1) Prerequisite: Algebra I Regular

General physics is based on the fact that historical advances in science provide a logical and easily followed line of development. Stressing more imagination and less mathematics, this course brings together the elementary principles of classical physics, atomic structure, and nuclear energy. The course is designed for the non-scientific minded student.

SCI8110 AP PHYSICS (Grades: 12---Credit: 1 ½) Prerequisite: Algebra III Trig

AP Physics presents a high school course in physics from a conceptual point of view. This course integrates mathematical concepts, physical constructs, and working models. In the spirit of modern physics, this course departs from the wheels and gears of the 19th century and stresses the interplay of scientific postulates and projections. This course is recommended for highly motivated science students as it is taught in the style of a college course.

ERT8130 PRINCIPLES OF TECHNOLOGY I (Grades: 10, 11---Credit: 1) (132 hours)

Principles of Technology I is a one-year course that uses a hands-on approach to prepare students to function in a technical work environment. This laboratory-oriented offering will stress applied physics and mathematical techniques to allow tech-prep and academic students to use scientific principles and concepts for problem solving in practical situations. The course will provide coverage in the topics of force, work, rate, resistance, energy, power and transforming devices. Training using the above topics will be used to gain a working knowledge of electrical, fluid, mechanical and thermal systems. Principles of Technology I is a prerequisite course for Principles of Technology II and is required for all Tech Prep programs including Engineering Related Technology.

ERT8140 PRINCIPLES OF TECHNOLOGY II (Grades: 11, 12---Credit: 1) Prerequisite: Principles of Technology I (132 hours)

Principles of Technology II is a one-year course that uses a hands-on approach to prepare students to function in a technical work environment. This laboratory-oriented offering will stress applied physics and mathematical techniques to allow tech-prep and academic students to use scientific principles and concepts for problem solving in practical situations. The course will provide coverage in the topics of momentum, waves/vibrations, energy converters, transducers, radiation, light, optical systems and time constants. Training using the above topics will be used to gain a working knowledge of electrical, fluid, mechanical and thermal systems. Principles of Technology II is also a required course for those in the ERT – (Engineering Related Technology) curriculum.

SCI8170 GENERAL CHEMISTRY (Grades: 11---Credit: 1) Prerequisite: Algebra II Regular (132 hours)

This course is designed for students who desire a basic background in chemistry.

SCI8190 CHEMISTRY STUDY with Lab (Grades: 10, 11---Credit: 1 1/2) Prerequisite: Algebra II Accelerated (132 hours)

The Chem Study program is an essential course for students who are planning a career in science. Chem Study deals with the whys of chemistry and develops the scientific method of thinking.

HRT8045 BIO LAB/HRT

SOCIAL STUDIES

Students must complete at least four credits in social studies to satisfy requirements for graduation from St. Marys Area High School. Three credits to meet the Social Studies requirement and one credit to meet in part the 2 1/2 credit requirement in Arts and/or Humanities. Students should consult social studies teachers and guidance counselors for assistance in making appropriate course selections. Students will be placed by ability in most social studies classes based upon teacher's and guidance counselor's recommendations.

SOC9010 WORLD CULTURES (Grades: 11---Credit: 1)

World Cultures is the study into the lives of other world peoples. The field is not limited to any one field in the social studies but draws upon the resources and contributions of geography, history, economics, sociology, anthropology, political science and psychology. Culture refers to all the accepted and patterned ways of behavior of a given people. It includes their contributions to music, literature, traditions, and folkways.

SOC9030 ANTHROPOLOGY (Grades: 11, 12---Credit: 1/2)

Anthropology deals with the origin, diversification, and evolution of man and his culture from primitive systems to modern industrial civilization.

SOC9050 ECONOMICS (Grades: 12---Credit: 1/2)

The emphasis in the study of Economics is on the development, operation, and problems of a market economy. It will help students develop a rational approach to economic problem solving. Concepts examined in the course will include: (1) Economics, (2) Scarcity, (3) Opportunity Cost, (4) Economic Systems, (5) Competition, (6) Economic Role of Government and (7) Application of Economic Skills and Analysis, (8) International Finance and (9) Banking.

SOC9570 AMERICAN GOVERNMENT (Grades: 12---Credit: 1/2)

American Government is a one-half course required for all students. The course is designed to provide students with insights of the inter-relationships of politics and the structure and operation of the American form of government. Through the study of this course, students will gain a working knowledge of the citizen's role in government. When problem solving, they will learn to investigate all sides of a topic. They will acquire an understanding of the major offices in the government on the national, state, and local levels. This course may be scheduled in the 11th or 12th Grade.

SOC9080 AMERICAN CULTURES SINCE 1877 (Grades: 9, 10---Credit: 1)

Previously referred to as American History, the term cultures was substituted to include a broader spectrum into the study of American Society. Chronologically this course covers the time period from 1877 to the present. The main topics include Civil Rights, The Role of Industrialism, The Rise of Big Business, The American Labor Movement, the Role of the Immigrant, World Wars I and II, Korean War, Vietnam War and Middle East turmoil. The study includes contributions in music, literature, reform movements, etc. Contributions made by blacks and other racial and ethnic groups in the development of the United States are emphasized.

SOC9090 PSYCHOLOGY (Grades: 11, 12---Credit: 1/2)

Psychology is the study of how people perceive and think. It further examines how people learn and why they behave as they do. It is not based on the prejudiced opinion or unsupported judgment. In psychology, behavior is defined as those activities of a human being or other organism that can be observed directly by means of special instruments or techniques. Such activities as walking, running, and speaking are forms of human behavior. It is also concerned with learning, remembering and reasoning.

SOC9100 AP UNITED STATES HISTORY (Grades: 9, 10---Credit: 1) Prerequisite: a minimum grade of 94% in American Cultures < 1877 and teacher recommendation

Advanced Placement United States History is a two semester intensive study of American History from the Age of Discovery to the present. The course investigates the lives of historical figures as well as ordinary people. While social and economic history are areas of special emphasis, the instructor gives careful attention to traditional political and cultural developments providing a balanced viewpoint of United States History. As a whole AP United States History offers the student a wider

ethnic historical scope with the added coverage of multicultural issues. Emphasis is placed on critical thinking, reading and writing skills. Preparation for the AP exam is part of the instruction. This can mean the possibility of college credit.

SOC9120 LAW EDUCATION (Grades: 11, 12---Credit: 1/2)

Modern problems are primarily those of everyday living. How do people live; in company with others, in their society? What are the foundations of an orderly social life? To help find the answers to these questions, this course will explore the need for rules/laws within a group and between groups; analyze how laws are made and changed; identify rights that are protected by law; and provide knowledge of various methods of settling disagreements through legal procedures.

SOC9130 WORLD GEOGRAPHY (Grades: 9, 10, 11, 12---Credit: 1/2)

The World Geography course takes an interdisciplinary approach to geography. Its aim is to relate physical geography to economic, political, social, historical, and cultural aspects of human activity. The course is intended to provide students with core knowledge about the world's geographic regions and to relate that knowledge to events in today's changing world.

SOC9140 CIVIL WAR ERA (Grades: 9, 10, 11, 12---Credit: 1/2)

A history elective designed for anyone having either a general or special interest in the American Civil War. The subject is studied through class-discussions, guest speakers, videos, and printed materials. Topics include the causes, course, and outcome of the war, an examination of the soldiers' life, significant personalities (military and political). The role of women in the conflict as well as special treatment of the Bucktail Wildcats from Elk County will be considered.

SOC9150 AP EUROPEAN HISTORY (Grades: 11, 12---Credit: 1) Prerequisite: a minimum grade of 94% in AP US History and teacher recommendation

Advanced Placement European History is an intensive study of the history of the world from Ancient Civilizations to the present. The course examines the lives of historic figures and ordinary citizens. While social and economic histories are areas of special emphasis, careful attention is given to traditional political and cultural developments to provide a balanced view of world history as a whole. World history offers a detailed geographic and ethnic scope, with added coverage of Eastern Europe, the Celtic region, and Islamic peoples. Emphasis will be placed on critical thinking, reading and writing skills. Preparation for the AP European History exam is part of the class.

SOC9200 ENTREPRENEURSHIP (Grades: 10, 11, 12---Credit: 1/2) (66 hours)

Entrepreneurship is a semester course offered the senior year for students in the academic and tech-prep curriculum who plan on pursuing a vocation as a proprietor. This course is a transitional study that will bridge the gap between technical training and the small business community. In recognition of the importance of small business to the local and national economy, the course will meet the information needs of young aspiring entrepreneurs. While developing a strong background for business, the student will study private enterprise in America, legal aspects of small business development, franchising, market strategies, and accounting and production promotion.

SOC9560 ACCELERATED ECONOMICS (Grades: 12---Credit: 1) Prerequisite: a minimum grade of 94% in AP European History and teacher recommendation

This is a one-credit course that will be focused in both macroeconomics and microeconomics. Only select students who have previously exhibited superior academic achievement will be considered for doing this advanced work. Students taking this economics course will write a letter of intent exhibiting their desire to do extra work that is necessary in an advanced placement course. Upon completion of the course the students may, if he or she so desires, take the College Board exam that will qualify them for college credit. The prospective students must understand that they will need approximately one hour outside of class to prepare for each class meeting.

LEARNING SUPPORT CLASSES

LS8420, LEARNING SUPPORT ENGLISH (Grades: 9, 10, 11, 12---Credit: 1)

The Learning Support English class emphasizes the structure of the English language to improve the quality of student writings. Students will be required to write short stories, poems, plays, multi-paragraph informational pieces (letters, descriptions, reports, instructions, essays, articles, interviews); persuasive pieces. Students will develop the skills needed to write with a sharp, distinct focus, using well-developed content appropriate for the topic and organization. The student will write different types (simple, compound, complex, declarative, interrogative, exclamatory, imperative) and lengths of sentences. The student will edit writings for spelling, capitals, punctuation, and parts of speech.

LEARNING SUPPORT MATH (Grades: 9, 10, 11, 12---Credit: 1)

The Learning Support Math class emphasizes mathematic skills needed to solve multi-step problems. Students will use numbers, number systems, and number relationships to solve multi-step problems using addition, subtraction, multiplication, and division. Students will complete computations and estimations for whole numbers, fractions, percents, money/decimals,

and graphing. Students will select and use appropriate units and measure given diagrams. Students will apply mathematical reasoning to determine solutions to a multi-step problem. Students will complete problem solving activities and communicate their observations, predictions, concepts, procedures, generalizations, ideas, and results. Students will estimate or calculate to make predictions when given a variety of graphs. Students will make generalizations for a given data set requiring one math calculation. Students will graph points and identify patterns.

Learning Support Math is taught in the following sequence:

LS PreAlgebra (LS8460) – grade 9

LS Algebra (LS8461) – grade 10

LS Geometry (LS8462) – grade 11

LS Practical Math (LS8463) – grade 12

LEARNING SUPPORT READING (Grades: 9, 10, 11, 12---Credit: 1)

The Learning Support Reading class assists students to demonstrate an understanding and interpretation of fiction and nonfiction text. Students will read and understand the essential content of informational texts and documents. They will identify fact from opinion, make inferences about similar concepts in multiple texts, draw conclusions, and explain an author's text organization. Students will use and understand a variety of media and evaluate the quality of the materials produced. Students will read and respond to literature. Students will identify the characters, setting, plot, theme, and point of view within literary works. Dictionary and word meaning use will be studied. Students will select and refine a topic for research; locate information using appropriate sources and strategies; and organize and present the main ideas from research. Learning Support reading class offers a wide variety of reading classes based on the student's ability and progress through the classes. Classes available include:

LS Reading (SPED8451)

LS Reding II (SPED8440)

LS Reading III (SPED8450)

LS Reading IV (SPED8455)

LS Reading Comprehension B1 (SPED8441)

LS Reading Decoding B2 (SPED8431)

LS Ewards Reading (SPED8452)

LS Functional Reading (SPED8453)

LS Wilson I (SPED8470)

LS Wilson 2 (SPED8458)

LS Wilson 3 (SPED8456)

LS Wilson 4 (SPED8459)

LS848, LS 858 LEARNING SUPPORT SCIENCE (Grades: 9, 10 11, 12---Credit: 1)

Learning Support Science is taught in a four-year cycle. Earth Science, Physical Science, Life Science, and Health are taught. The class relates information addressed in the general education science classes to the students.

LS849, LS859 LEARNING SUPPORT SOCIAL STUDIES (Grades: 9, 10, 11, 12---Credit: 1)

Learning Support Social Studies is taught in a four-year cycle. Students are provided instruction for two years of World Geography and two years of American History. The students are provided with the same information obtained in the general education social studies courses yet at a slower pace.

LEARNING SUPPORT AMERICAN HISTORY TO 1877

This course covers the time from the Migration Period to the end of Reconstruction. A full year course that studies and tracks the development of the United States by studying the evens, political climate and actions, economics, cultural changes, literature, art and music of the various time frames within this period.

LEARNING SUPPORT AMERICAN HISTORY FROM 1877 TO PRESENT

This course covers the time from Reconstruction to the Present. The full year course studies and tracks the development of the United States. Events, political climate and actions, economics, cultural changes, literature, art, and music of the various time frames within this period are studied.

LEARNING SUPPORT WORLD GEORGRAPHY

This two-year World Geography course relates physical geography to economical, political social, historical, and cultural aspect of human activities. The course is intended to provide students with core knowledge about the world geographical regions and relate that knowledge to events in today's changing world.

LS9981 LEARNING SUPPORT RESOURCE

The Learning Support Resource course is designed to provide assistance and support to a student in their regular and/or special education courses. Students are required to bring their assignment book, class assignments, and materials to class. Progress is monitored and communicated to parents. This course can be scheduled on a quarterly, semester, or year-long basis depending upon student need.

LIFE SKILLS CLASSES (Grades: 9, 10, 11, 12---Credit: 1)

This group of classes includes Vocational, Community Based Instruction, Functional Academics, Daily Living, and Personal Care. The focus is on assisting students to develop the independent living skills, communication skills, social skills, and vocational skills needed to be successful.

SPED8230 PERSONAL CARE – Life Skills

This course offers students the opportunity to develop the personal care skills, communication, and social skills needed to have a full and meaningful life.

SPED8240 DAILY LIVING – Life Skills

This course offers students assistance learning to cook, complete laundry tasks, and other household management skills.

SPED8280 VOCATIONAL – Life Skills

This course offers students an opportunity to discuss the skills needed to be successful in the work place. Students complete vocational activities designed to improve their skill levels.

SPED8290 FUNCTIONAL ACADEMICS – Life Skills

This course offers students opportunities and assistance in gaining independent living skills including money management, reading labels, reading recipes, making grocery lists, etc.

SPED8300 COMMUNITY BASED INSTRUCTION – Life Skills

This course offers students the opportunity to participate in life activities within the local community while having direct supervision and training. Students practice and access local community services.

St. Marys Area School District is an equal opportunity education institution and will not discriminate on the basis of race, color, national origin, sex or handicap in admission to or implementation of its activities, educational programs, or employment practices as required by Title VI, Title IX and Section 504. For information regarding civil rights or grievance procedures, contact the Title IX and Section 504 Coordinator at 977 South St. Marys Road, St. Marys, PA 15857 (814) 834-7831.