

MOON AREA HIGH SCHOOL



PROGRAM
OF
STUDIES
2011-2012



Dear Students and Parents,

This Program of Studies is distributed to explain the 9th, 10th, 11th and 12th grades curriculum and course options at Moon Area High School for the 2011-2012 school year. In addition to the course offerings, the Program of Studies contains descriptions of courses, graduation and scheduling requirements.

The high school guidance counselors will meet with all students to review this Program of Studies. They will further explain the scheduling process. Students must to activate their Edline accounts in order to actually select their courses for the 2011-12 school year. Students and parents will be able to review these courses online through Edline. A verification letter will be generated from student course requests and will require student and parent signatures. Actual schedules will be mailed in the summer.

Please take the opportunity to carefully review the course offerings to be certain that you are selecting courses that are both of a personal interest and will fulfill the graduation requirements established by the Moon Area School District. Be certain that you have met the necessary prerequisites for each course that is requested. Our website will contain the answers to many Frequently Ask Questions (FAQ's) about course selection and the scheduling process. Please feel free to consult with counselors, teachers and administrators to have other questions and concerns addressed.

Sincerely,



Michael A. Hauser,
Sr.-Principal
Moon Area High School
412-264-9440

MOON AREA HIGH SCHOOL

8353 University Boulevard
Moon Township, PA 15108
(412-264-9440)

High School Administration

Mr. Michael A. Hauser – Sr. Principal
TBA – Co-Principal
Mrs. Susan Kazmierczak – Assistant Principal

MAHS Student Services

Guidance Department

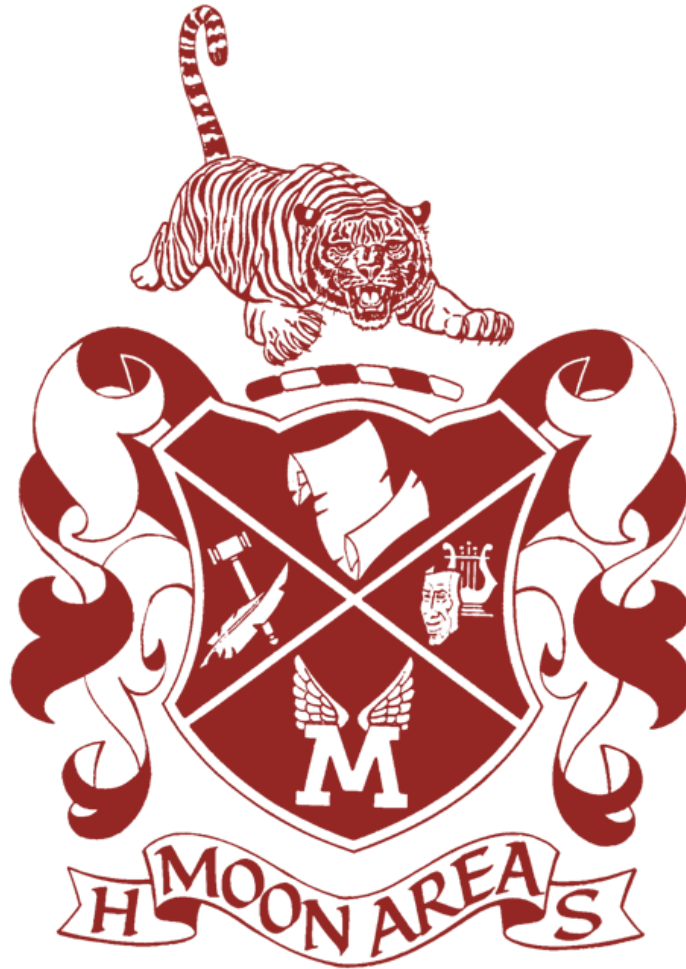
Mrs. Amanda Spirnak (A-G)	Ext. 2010
Ms. Emily Wagner (H-N)	Ext. 2011
Ms. Nora Minahan (O-Z)	Ext. 2012
Mrs. Joyce Garbera, Guidance Secretary	Ext. 2009
Mr. Joseph Martonik, Student Assistance Coordinator - MAPS	Ext. 2036
Mrs. JoElyn Slifkin, Senior Projects Coordinator	Ext. 2525
Mrs. Debra Navickas, Transition Coordinator	Ext. 2020

District Administration

Dr. Donna Milanovich, Superintendent
Dr. Cynthia Zurchin, Assistant Superintendent
Mr. Michael Haslett, Director of Pupil Services
Mr. Jeffrey Zollars, Director of Curriculum
Mrs. Kim Jones Prevost, Assistant Director of Curriculum /
Instructional Technology Specialist
Mr. Alan Bennett, Director of Fiscal and School Services
Mr. Christopher Hatty, Director of Technology
Mrs. Joni Shaw, School Psychologist

MISSION

The mission of Moon Area High School is to educate every student in a respectful, safe, enriching environment through comprehensive programs that inspire excellence, life-long learning and responsibility.



The Moon Area School District is an equal opportunity education institution and will not discriminate on the basis of race, color, national origin, sex and handicap in its activities, programs or employment practices as required by Title VI, Title IX and Section 504.

For information regarding civil rights, grievance procedures or services, activities and facilities that are accessible to and usable by handicapped persons, contact Dr. Donna Milanovich, Title IX/Section 504 Coordinator at 8353 University Blvd, Moon Township, PA 15108 (412) 264-9440

MOON AREA HIGH SCHOOL PHILOSOPHY AND BELIEFS

Moon Area High School recognizes each individual's potential and unique capabilities and accepts the challenge of providing a stimulating environment for all students to develop into inquisitive and informed life-long learners.

Respect, integrity, trust, cooperation, and tolerance are important personal attributes that foster a positive and productive school environment. Moon Area High School encourages acquisition and daily application of these traits in conjunction with academic excellence, personal accountability, and effort.

Moon Area High School will capitalize on strengths and effectively address weaknesses through ongoing evaluation and adjustment of curricula, technology, extracurricular activities, and community outreach programs to meet the diverse needs of students in a dynamic, global society. Moon Area High School continually encourages a Tradition of Excellence in academics, the arts, activities, and athletics.

Belief Statements:

- ❖ Every person is unique and has intrinsic worth.
- ❖ Fostering understanding and appreciation of cultural diversity enriches lives.
- ❖ Recognition and encouragement inspire motivation and dedication.
- ❖ Students, staff, and guests have a right to feel safe and secure.
- ❖ An academic and work environment free of discrimination and harassment encourages a comfortable and productive learning atmosphere.
- ❖ Honest and open communication among the school population is essential for understanding and trust.
- ❖ Education is a shared responsibility of the student, faculty, family, and community.
- ❖ A quality education is basis for success and the most valuable asset for the future.
- ❖ Higher expectations promote greater achievement.
- ❖ A challenging education builds critical thinking and problem solving skills for tomorrow's work force.
- ❖ Relevance is an important catalyst for learning.
- ❖ Rigorous curricula and challenging assessments reflect high expectations.
- ❖ Teamwork and leadership opportunities allow for personal growth.
- ❖ School pride and spirit motivate students and staff.
- ❖ Good sportsmanship reflects the character of Moon Area High School.
- ❖ Communities thrive when all individuals contribute.

HIGH STANDARDS OF C. A. R. E.

FOR
Moon Area High School

All members of the MAHS community, on a daily basis, will be expected to ...

CHARACTER	<p>Display respect and consideration for all people and property</p> <p>Foster integrity and integrate ethics as personal traits</p> <p>Accept responsibility for one's actions</p>
ACHIEVEMENT	<p>Contribute to and maintain a positive learning environment</p> <p>Work to achieve his or her personal best</p> <p>Build a foundation to support life-long learning</p>
RESPONSIBILITY	<p>Develop and follow a plan for self improvement</p> <p>Become accountable for one's decisions</p> <p>Foster a spirit of service to the community</p>
EXCELLENCE	<p>Strive to continually improve personal performance</p> <p>Demonstrate teamwork and cooperation</p> <p>Develop and exhibit leadership qualities</p>

We will communicate the Standards -- We will model the Standards -- We will implement the Standards

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COURSE SELECTION REQUIREMENTS

All freshmen and sophomores will select **7.0** credits per year. Juniors and seniors will select a minimum of **6.5** credits per year. (Every effort will be made to schedule selected courses.)

GRADUATION REQUIREMENTS

In compliance with Chapter 4 regulations of the Pennsylvania Department of Education and Moon Area School District policy, Moon Area High School graduation requirements shall include:

1. Completion of 24 credits as outlined in each subject listed below

- | | |
|----------------------|-------------------------------------|
| 4.0 – English | 2.0 – Arts and Humanities |
| 4.0 – Social Studies | 2.5 – Health and Physical Education |
| 3.0 – Science | 1.0 – Technology Education |
| 3.0 – Mathematics | 4.5 – Electives |

2. Satisfactory completion of a senior project and

3. Demonstrate proficient or better achievement on the PSSA math, Reading and Writing Assessments

or

- **Demonstrate proficient or better on a local assessment that is aligned with the corresponding PSSA assessment**

or

- **Demonstrate 75% or better achievement on state standards-correlated classroom assessments in Math, Reading and Writing**

or

- **Successful completion of a special education program of studies that is in keeping with a student’s Individualized Education Plan (IEP)**

(Arts and Humanities include World Languages, Art, Fine Arts, Business, Family and Consumer Sciences, Technology Education and Elective Social Studies.)

† Any course indicated by this symbol will satisfy a Technology Education requirement

REQUIREMENT FOR GRADE ADVANCEMENT

A student must have earned 5.0 credits to enter grade 10, 11.0 credits to enter grade 11, and 17 credits to enter grade 12.

No student will be classified as a senior unless they have earned 17 credits, and is a confirmed candidate for graduation by the end of the school year.





GRADING SCALE

All grades are reported in percentage figures in Moon Area High School. Letter grades may be determined according to the following conversion scale:

90%	-	100%	=	A
80%	-	89%	=	B
70%	-	79%	=	C
60%	-	69%	=	D
59%	-	below	=	F

QUALITY POINTS

Quality points for each course are assigned according to the number of credits a course is valued and the grade earned as indicated below:

0.5 credit Grade - QP	1 credit Grade - QP	4 credits Grade - QP
A - 2.0	A - 4.0	A - 16.0
B - 1.5	B - 3.0	B - 12.0
C - 1.0	C - 2.0	C - 8.0
D - 0.5	D - 1.0	D - 4.0
F - 0.0	F - 0.0	F - 0.0

ADVANCED PLACEMENT AND HONORS COURSES

Quality points are assigned to Advanced Placement and Honors Courses as indicated below:

ADVANCED PLACEMENT	COLLEGE IN HIGH SCHOOL (CHS)	HONORS
A 5.0	A 5.0	A 4.5
B 4.0	B 4.0	B 3.5
C 3.0	C 3.0	C 2.5
D 2.0	D 2.0	D 1.5

HONOR ROLL

Any student who earns a 3.25 quality point average will be listed on the quarterly Honor Roll. A grade of "F" in any course will automatically eliminate the student from the Honor Roll regardless of quality point average.

HIGH HONOR ROLL

Any student who earns a 4.0 quality point average will be listed on the quarterly High Honor Roll.





CLASS RANK

Class rank is determined by a student's **quality point average** (QPA) in relation to all other students in the same grade. The quality point average is determined by adding the total number of quality points earned in each subject divided by the total number of credits attempted. Rankings are calculated two times a year based on the first semester and final grades. To ensure that QPA development is fair and equitable for all students, the following applies:

.25 additional quality points will be awarded to any senior or junior who attempts at least 6.5 credits, achieves and maintains a 3.0 Quality Point Average or better, and has no grade average below a 75% in any subject

.5 additional quality points will be awarded to any senior or junior who attempts 7.0 credits, or otherwise carries a "full schedule" of classes, achieves and maintains a 4.0 Quality Point Average, and has no grade average below a 75% in any subject

Additional quality points will be awarded at the end of the first and second semesters. An interim class rank for the school year will be established at the end of the first semester by using the above formulas. A final class rank for the school year will be established by using the above formulas at the end of the 2nd semester. Qualifying attempted credits or quality points cannot be for courses that are being repeated or for any credits that are attempted outside of the courses listed in this program of studies.

Class rankings will not be used for Grade 9 and Grade 10 students for 2010-2011 and subsequent class cohorts. In place of a class rank, a measure in deciles will be reported on transcripts. The principal shall maintain a confidential class rank list for scholarship purposes. (The ranges of weighted and non-weighted quality points averages may need to be revised annually due to variations caused by the addition of new Honors or AP level courses to the curriculum)

Decile Ranges

Decile	Top	-	Bottom
1st	4.57	-	4.11
2nd	4.10	-	3.66
3rd	3.65	-	3.20
4th	3.19	-	2.74
5th	2.73	-	2.29
6th	2.28	-	1.83
7th	1.82	-	1.37
8th	1.36	-	0.91
9th	0.90	-	0.46
10th	0.45		0.00

Criteria for determining graduation ceremony speakers:

Up to 3 graduation ceremony speakers shall be selected each year by a committee headed by the principal based on the criteria listed below:

- Students must demonstrate academic excellence by being in the top decile measure of the senior class
- Students must demonstrate an acceptable level of involvement in school activities
- Students must demonstrate an acceptable level of verifiable community service
- Students must demonstrate verifiable, sustained leadership as a MAHS student

A completed application including an essay answering the question of why he/she should speak at the graduation ceremonies.



**Physical Education:**

A student may be excused from regular physical education only upon a **physician's written recommendation** for reasons of **health or physical incapacity**. For such circumstances, an alternative research paper will be assigned. Exempted students will be screened for possible placement in an *alternative* physical education program, within limitations set by a physician.

Advanced Courses:

Students are scheduled into **Honors, College in High School (CHS) and Advanced Placement (AP)** courses on the basis of successful completion of prerequisite courses, their quality point average, and/or teacher recommendation.

Attention Student Athletes:

Students interested in participating in NCAA College Athletics Division 1 or Division 2 must take high school courses approved by the NCAA. Please visit the Eligibility Website at www.eligibilitycenter.org to view the list of approved courses as it is always changing. NCAA Eligibility Center Customer Service is 1-877-262-1492.

The following courses have been denied by the NCAA Eligibility Center:

English 11 Applied	Adv. Personal Computer Applied
English 12 Applied	Basic Programming
Journalism 1-2-3-4	Business Computer Applied
Playwriting & Performance	Desktop Publishing
Algebra 1 Concepts/Skills	Oracle Internet Academy
Geometry Concepts/Skills	Oracle Internet Academy 1-2-3-4
Applied Math 1-2	Pascal Programming
Business Math	Personal Computer Application
Applied Biology	Related Fine Arts
Applied Chemistry	Spreadsheet/Database
Earth & Environment-Applied	Visual Basic
Database PWRPT	Visual Basic 1-2
Accounting 1	Word Processing
Adv. Accounting	

MISCELLANEOUS INFORMATION**World Languages:**

Students requesting a foreign language should be doing "C" work or better in English. If a student received a "D" in a foreign language, the student will be required to repeat the course to strengthen the student's background before attempting the next language level. Exceptions require written recommendation from the counselor and teacher.

Mathematics:

Students requesting the next sequence in a mathematics course must have a "C" or better in their current math course, and the approval of the present mathematics teacher and counselor. *(A grade of 96% or better is required for students moving from Algebra 1 into Geometry Honors and Geometry to Algebra 2 Honors).

Science:

Students requesting the next sequence in an advanced science course area must have the approval of the present science teacher and counselor.





PROCEDURES FOR COURSE CHANGES

Considerable time is spent each year with students to ensure that their course selections are meaningful and enhance the program of their choice. Student schedules resulting from the course selection process will be considered final. However, there will be times when circumstances will necessitate a request for a change. It is essential that such requests be held to a minimum (e.g. completion of summer school, failures, or inability to meet prerequisites).

Below is a list of practices and procedures the high school will use for responding to course change requests:

1. Priority will be given to changes made necessary because of computer errors, adjustment in class size and other reasons of an administrative nature.
2. Requests for course changes that follow the examples mentioned above, or similar situations, will be considered next. All requests for changes must be initiated in writing using the proper form through the Guidance Office. Students are responsible to complete the required form, and must include all necessary teacher and parent signatures. Approval of any requests will be made based upon the advice of teachers, counselors and principals.
3. No course may be dropped after the **first two weeks** of school without receiving a failing grade for the remainder of the year. However, a student who drops a course by the conclusion of the first nine-week period, and has approval to select a replacement course in the same discipline, shall have the grade received in the first report period carried over to the replacement course. Any exception (e.g. medical reasons) to the drop procedure shall rest with the school administrators.
4. No course may be added after the **first two weeks** except upon the advice of a counselor and approval of school administrators. The final decision for granting changes requested after this time shall rest with school administrators.
5. These procedures apply to all courses taken at Moon Area High School including those courses taken at the Parkway West Career and Technology Center. They also apply to courses that begin meeting during the second semester.
6. Courses without a sufficient level of student enrollment, as determined by administrators, may be dropped from the master schedule and therefore also from student schedules.

DUAL ENROLLMENT EARLY RELEASE PROGRAM

Students wishing to participate in the Dual Enrollment Early Release Program may enroll in college level courses at the Community College of Allegheny County, Robert Morris University, and Penn State Beaver. Senior and junior students must meet an approved set of requirements and must submit an application signed by a parent, a guidance counselor and the principal.

Information and applications specific to juniors and seniors can be found on pages 54 and 56, respectively. Applications and an approved list of courses that students may take are available in the guidance office. Questions regarding this program can be answered by counselors and principals.

(Expenses for Dual Enrollment tuition, fees and books may or may not be reimbursed)





Course Offerings and Descriptions





ART DEPARTMENT

Art 1	*Creative Art	*Media Art 1 – Video
Art 2	*Media Art 1 – Photography	*Media Art 2 – Video
Art 3	*Media Art 2 – Photography	*Digital Imaging 1 (†)
Art 4		*Digital Imaging 2 (†)

**indicates that a course is a one semester course*

ART 1

Gr. 9, 10, 11, 12

This course is designed to expose the beginning student to all areas of art.

**Course 3500
1 Credit**

ART 2

Gr. 10, 11, 12

Any student who has completed one full year of art in grades 9, 10 or 11 may elect this course. All areas of art will be explored.

Prerequisite: Grade “C” or better in Art 1

**Course 3505
1 Credit**

ART 3

Gr. 11, 12

Any student who has completed two full years of art in grades 9, 10 or 11 may enroll in this class. This course is designed for advanced students to further their understanding of art by working independently in several areas of art.

Prerequisite: Grade of “C” or better in Art 2

**Course 3510
1 Credit**

ART 4

Gr. 12

Any student who has completed three full years of art in grades 9 through 11 may elect this course. This course is designed for advanced students to further their understanding of art while expressing themselves more interpretatively.

Prerequisite: Grade of “C” or better in Art 3

**Course 3515
1 Credit**

CREATIVE ART

Gr. 9, 10, 11, 12

This one semester course explores the visual arts through a series of activities including drawing, painting, collage, CD design, optical art, tie-dye and more.

**Course 3520
.5 Credit**

MEDIA ART I - PHOTOGRAPHY

Gr. 9, 10, 11, 12

This one semester course will explore the visual arts through 35mm digital photography. Students will research the history of photography and understand such components as camera functions, composition, basic lighting principles, file formats and print display. Each student will develop a portfolio of prints which will be displayed. A 35mm digital camera is required for this course.

**Course 3525
.5 Credit**





MEDIA ART 2 - PHOTOGRAPHY

Gr. 9, 10, 11, 12

This is a one semester course which will build on the fundamentals learned in Photography I. All work is on an individual basis. A 35mm digital camera is required for this course.

Prerequisite: Grade of a "B" or better in Photography I or teacher recommendation

**Course 3530
.5 Credit**

MEDIA ART I - VIDEO

Gr. 9, 10, 11, 12

This is a one semester course which will explore video production. Individual and small group work will be required throughout the semester. Each student will be involved in producing several video productions demonstrating their knowledge and skills.

**Course 3535
.5 Credit**

MEDIA ART 2 - VIDEO

Gr. 9, 10, 11, 12

This is a one semester course which will build on knowledge and skills formed in Video I. The students will create video productions using digital format geared toward school activities and experiences. Computer editing will be used to create the productions.

Prerequisite: Grade of a "B" or better in Video I or teacher recommendation.

**Course 3540
.5 Credit**

DIGITAL IMAGING 1(†)

Gr. 9, 10, 11, 12

This is a one semester course which will explore the visuals through digitally produced images using software such as PhotoShop and Illustrator. The student will have an opportunity to use the digital camera, scanner and other input sources to acquire graphic information.

**Course 3545
.5 Credit**

DIGITAL IMAGING 2 (†)

Gr. 9, 10, 11, 12

This is a one semester course that is an extension of Digital Imaging 1. This course will explore various software plug-ins for Adobe PhotoShop and Illustrator, 3D modeling, animation multimedia presentations and beginning Web Page design.

Prerequisite: "B" or higher in Digital 1 or teacher recommendation

**Course 3550
.5 Credit**

DIGITAL IMAGING 3 (†)

Gr. 10, 11, 12

This is a one semester course which will build on knowledge and skills formed in Digital Imaging II. The course will explore 3D modeling and animation including lighting and camera techniques.

Prerequisite: Grade of a "B" of better in Digital II or teacher recommendation.

**Course 3555
.5 Credit**





AP ART HISTORY

Gr. 11, 12

**Course 3516
1 Credit**

A year long course, AP Art History is designed as a chance to analyze and interpret art from Prehistoric to Post Modern periods as well as its relation to ideas such as politics, religion, history, culture and more. This class will enable students to appreciate and understand art in all of its forms and functions. Students of AP Art History will apply critical thinking skills and develop the means to communicate concepts about art both verbally and through written compositions.





BUSINESS AND MARKETING DEPARTMENT

Accounting: Real-World Applications & Connections
Advanced Accounting: Real-World Applications & Connections
College in High School, Financial Accounting
Marketing 1
Marketing 2
Marketing 3
Marketing Co-op

ACCOUNTING 1: Real-World Applications & Connections (†)

Gr. 9, 10, 11, 12

**Course 4000
1 Credit**

This course is a study of accounting principles and procedures. The emphasis in Accounting I is financial accounting. The student will build a conceptual and procedural understanding of the accounting cycle. The cycle is presented through accounting subsystems dealing with cash receipts, cash payments, purchases, sales, personnel and payroll and general accounting, including interpreting financial information. Both manual and automated accounting concepts are integrated into the course. Computer applications using an automated accounting package will be used to reinforce manual accounting concepts. This course is highly recommended for students who intend to enter the work force following graduation, or a university business administration program, such as, accounting, management, finance or marketing.

COLLEGE IN HIGH SCHOOL, FINANCIAL ACCOUNTING (†)

3 College Credits

**4005 Course
1 HS Credit**

This course is a natural follow-up to Accounting 1, and will provide extensive background in advanced topics of accounting. This course is highly recommended for those students seeking to pursue a major in Business Administration at the university level.

Prerequisite: "C" or better in Accounting 1 and Teacher Recommendation. *THREE college credits and ONE high school credit will be awarded for successful completion.*



**MARKETING 1****Gr. 9, 10, 11, 12****Course 4010****1 Credit**

This course is a study of the fundamental skills, principles, and knowledge in marketing needed to provide students with a wide range of competencies to enter and successfully advance in employment opportunities in these fields. It provides practice in communication skills, interpersonal skills, and marketing math applications. Career planning including marketing careers, self-assessment and career research, decision-making and employability skills are examined in this course. A unit on business and distribution operations is studied and students are introduced to DECA (Distributive Education Clubs of America) and encouraged to participate in the competitions.

MARKETING 2**Gr. 10, 11, 12****Course 4015****1 Credit**

This course is an advanced study of common skills, procedures, and problems dealing with marketing and merchandising activities. This course provides students with instruction concerning salesmanship, promotion, marketing information management, and economic essentials. Students then apply marketing principles to business simulations where they participate in team building, competitive, decision-making activities.

Prerequisite: Marketing and Distribution 1

MARKETING 3**Gr. 11, 12****Course 4020****1 Credit**

This is a course wherein marketing students study units on product development and management, branding strategies, packaging and labeling, pricing and marketing management. They then apply these marketing skills in business management and entrepreneurship (starting your own business) to develop a business plan.

Prerequisite: Marketing and Distribution 2

MARKETING CO-OP**Gr. 12****Course 4025****1 Credit**

This is a course taken as a senior in conjunction with Marketing and Distribution 3 or as a separate course upon completion of MDE3 as a junior. Each student must secure a training station that will provide practical training in a job related to the student's marketing career objective. Students will be excused from school after their last scheduled class and are required to work an average of fifteen hours a week in an approved training station. Students will meet as a class once a week to complete projects and discuss work-related problems and experiences. At this training station, the student will strive to learn and perform satisfactory job skills and job tasks necessary to build a foundation for a related career. Progress and performance of the student will be evaluated by a sponsor and the teacher/coordinator.

Prerequisite: Marketing and Distribution 3





COMPUTER SCIENCE DEPARTMENT

- *Personal Keyboarding
- *Visual Basic 1
- *Visual Basic 2
- *Word Processing
- *Spreadsheets
- *Desktop Publishing
- *Database / PowerPoint
- *Oracle Academy
- *Oracle Academy Adv. Honors

PERSONAL KEYBOARDING

Gr. 9, 10, 11, 12

**Course 4030
.5 Credit**

This one semester course provides an opportunity for all students to learn to touch type and to develop speed and accuracy at the keyboard. Along with keyboard mastery, students will learn to format personal letters, business letters, memos, reports, and a variety of other documents. Keyboarding skills are required for admission to various computer courses. [*Students who have successfully completed a keyboarding in the Middle School or at another high school should not take keyboarding again in the high school.*]

VISUAL BASIC 1 (†)

Gr. 9, 10, 11, 12

**Course 4035
.5 Credit**

Students will use Microsoft Visual Basic.net to develop Windows-based applications through object-oriented programming using a 6-step development cycle. Basic VB.net terminology and concepts will be introduced. Simple applications will be developed using code and forms, public and private variables and constants, decision structures, algebraic functions, and various controls with emphasis on logic, consistency and debugging.

Prerequisite: Keyboarding

VISUAL BASIC 2 (†)

Gr. 9, 10, 11, 12

**Course 4040
.5 Credit**

Students will use Microsoft Visual Basic.net at an advanced level to develop and debug Windows applications. Diverse applications will be developed using decision structures, public functions, data arrangement with sub procedures, complex algebraic functions, error trapping, and other various components.

Prerequisite: Visual Basic I.net

WORD PROCESSING (†)

Gr. 9, 10, 11, 12

**Course 4045
.5 Credit**

This one semester course is designed for the general student population. Students will use Microsoft Word. This software package will provide students with the skills necessary to use word processing on a personal level, as well as advanced applications. This course is highly recommended for students entering the workplace or going to college.

Prerequisite: Keyboarding

SPREADSHEETS (†)

Gr. 9, 10, 11, 12

**Course 4050
.5 Credit**

This one semester course is designed for the general student population. Students will use Microsoft Excel. This software package will provide students with the skills necessary to use worksheets on a





personal level, as well as advanced applications. This course is highly recommended for students entering the workplace or going to college.

Prerequisite: Keyboarding

DESKTOP PUBLISHING (†)

Gr. 9, 10, 11, 12

**Course 4055
.5 Credit**

Desktop Publishing with Adobe PageMaker is a one semester course, which emphasizes the learning-by-doing method. Students will use Adobe PageMaker to apply document design principles and decision-making skills to a wide range of documents. They will acquire the concepts needed to produce publications such as business cards, letterhead, flyers, business reports, brochures, posters, and more. Students will have an opportunity to work in production teams on group projects.

Prerequisite: Keyboarding

DATABASE/POWER POINT (†)

Gr. 9, 10, 11, 12

**Course 4060
.5 Credit**

This is a one semester course designed for the general population. Students will use two packages, Microsoft Access and Power Point. These software packages will provide students with the skills necessary to use databases and presentation software on a personal level, as well as advanced applications. This course is highly recommended for students entering the workplace or going onto college.

Prerequisite: Keyboarding

ORACLE ACADEMY - Database Design and Programming (†)

Gr. 9, 10, 11, 12

**Course 4065
1 Credit**

Students will learn the fundamentals of database design, programming and application building using both paper & pencil and computer assisted design techniques. They will learn to analyze the information needs of businesses and develop functional database designs. Students will connect to an Oracle database system via the Internet and use Structured Query Language (SQL) to display, maintain and control access to database information. They will also learn team building and presentation skills. Students will have the opportunity to participate in the International Oracle Student Data Modeling Competition and take the industry-standard Introduction to Oracle 10g certification exam.

Prerequisite: 8th grade students must have a teacher recommendation to schedule

ORACLE ACADEMY - Advanced Database Programming: PL/SQL HONORS (†)

Grade 10, 11, 12

**Course 4070
1 Credit**

This course introduces students to the PL/SQL programming language, PL/SQL is the procedural language extension to SQL. In the course, students learn how to write PL/SQL code. They begin by learning about anonymous PL/SQL blocks and subprograms. Next, they learn about declaring variables, using built-in SQL functions, using conditional and iterative control structures, and trapping exceptions. Students also learn to develop stored procedures, functions, and packages. Later in the course, students extend their knowledge of PL/SQL by learning more advanced topics such as creating database triggers, manipulating large objects, and managing dependencies. This course prepares students for the Oracle Certification exam, Program with PL/SQL, and achieving Oracle Certified Associate status.

Prerequisite: Oracle Academy- Database Design and Programming





ENGLISH LANGUAGE ARTS DEPARTMENT

Required Courses

- English 9
- English 9 -Honors
- English 10
- English 10 - Honors
- English 11 - Applied
- English 11
- English 11 - Honors
- English 12 - Applied
- English 12 - Semester Courses
- English 12 - Adv. Placement

Elective Courses

- Communications
- Multimedia Journalism 1
- Print Journalism 2N, 3N, 4N (†)
- Photo Journalism 2Y, 3Y, 4Y (†)
- *Reading/Writing Workshop (†)
- *Writing for the College Bound (†)

ENGLISH 9

Gr. 9

Course 1000

1 Credit

This literature based course helps students to develop a broad range of language skills, including reading, writing, speaking and listening. Students will read important literary selections such as Romeo and Juliet, To Kill a Mockingbird and the Odyssey, in addition to an enjoyable sampling of young adult literature, short stories, nonfiction and poetry. Composition and speechmaking activities will integrate library skills, grammar and usage, vocabulary and reading comprehension. Students will be expected to complete a research project.

ENGLISH 9 - HONORS

Gr. 9

Course 1005

1 Credit

This course encompasses the concepts dealt with in English 9 at an accelerated pace. Additionally, honors students will read supplemental novels and focus more intensely on college preparatory writing and research skill development. Honors students will complete a 3-4 page research project.

Prerequisite: Grade of A/B in grade 8 English and teacher recommendation.

ENGLISH 10

Gr. 10

Course 1010

1 Credit

This course is designed to give students an overview of communication skills. This study will include grammar and usage, writing, speaking, listening and reading. The literature includes poetry, short stories and novels. Such works as *Great Gatsby*, *Of Mice and Men* and *A Separate Peace* will be read.

ENGLISH 10 - HONORS

Gr. 10

Course 1015

1 Credit

This course is designed for students who demonstrate outstanding ability in English and is scheduled in place of English 10. Students will have an opportunity to gain more in-depth knowledge of literature, vocabulary, grammatical usage, composition, and speech. The literature will consist of two plays, five novels, poetry, and short story selections. A research paper of 3 to 5 pages will be required.

Prerequisite: Grade of A/B in grade previous honors class and teacher recommendation.



**ENGLISH 11 - APPLIED**

Gr. 11

**Course 1020
1 Credit**

This course is designed to help students develop and refine job-related communication skills and is taken in place of English 11-Academic. Students will improve reading, writing, listening, speaking, problem solving as well as visual and non-verbal skills and transfer these skills to their future occupations and personal lives.

ENGLISH 11

Gr. 11

**Course 1025
1 Credit**

This course is designed for students to prepare for college. Students will study grammar and usage, writing, American literature and vocabulary. This course includes the chronological study of American literature in which emphasis will be placed upon major authors, their works, and their unique contribution to American culture. A research paper, writing assignments, discussion, reports, and critical and personal evaluation are an integral part of this course. This course will also include preparation for the verbal section of the Scholastic Aptitude Test.

ENGLISH 11 - HONORS

Gr. 11

**Course 1030
1 Credit**

This course is designed for students who demonstrate outstanding ability in grammar, writing, reading and speaking skills. Students read six American novels, two plays, and a variety of American literature including essays, short stories, and poetry. Students write several analytical papers of three to five typed pages and an eight-page research paper on an American author. Practice for the SAT exam is also included. Other methods of evaluation include essay tests, group presentations, and participation in discussions.

Prerequisite: Grade of A/B in grade previous honors class and teacher recommendation.

ENGLISH 12 APPLIED

Gr. 12

**Course 1035
1 Credit**

This course is designed as a continuation of English 11-Applied. It will further reinforce communication skills in career preparation. Students will examine career and educational opportunities. A senior research paper, project and speech will be required.

ENGLISH 12

Students must have a full credit of English to meet graduation requirements. AP English and Applied English 12 are full credit courses. If AP English or Applied English 12 is chosen then that student has fulfilled her or his graduation requirement. **Students not selecting AP or Applied English 12 must choose two of the following:**

Number of classes for semester courses offered will be determined by student requests.

CONTEMPORARY FICTION

Gr. 12

**Course 1040
.5 Credit**

In this course designed for the college bound student, students will read several genres of contemporary fiction including short stories, novels and plays. Critically acclaimed works of twentieth and twenty-first century authors will be the focus of oral and written analysis, evaluation, composition and class projects. A senior research paper, project and speech will be included in the curriculum.





POETRY

Gr. 12

**Course 1041
.5 Credit**

This course, designed for the college bound student, will place an emphasis on contemporary poetry but will also involve the student in a close study of the classics. Students will read and interpret multiple forms of poetry from several time periods. In order to better understand the unique genre of poetry, students will write their own poetry. Written analyses of poetry will also be included in this course. A senior research paper, project and speech will be included in the curriculum.

SURVEY OF BRITISH LITERATURE

Gr. 12

**Course 1042
.5 Credit**

In their survey course designed for the college bound student, students will read, discuss and analyze literature that traces the origins and development of our language. Students will begin their study with the popular epic *Beowulf* and continue through to 21st century contemporary British literature including drama, poetry and even comedic British writing. Students will prepare for post-secondary education through the completion of reading, writing, speaking and listening skills based on British literature. Classic literature will be paired with contemporary selections as students engage in analysis of the English language. A senior research paper, project and speech will be included in the curriculum.

SURVEY OF WORLD LITERATURE

Gr. 12

**Course 1043
.5 Credit**

Designed for the college bound student, in this survey course students will study classic and contemporary literature from around the globe. Selections may include mythology, drama, essays, stories and poetry. Students will prepare for post-secondary education through the completion of reading, writing, speaking and listening skills based on World literature selections. Often classic and contemporary selections will be paired. A senior research paper, project and speech will be included in the curriculum.

CONTEMPORARY DRAMA AND THEATER

Gr. 12

**Course 1044
.5 Credit**

Designed for college bound students, this course focuses on contemporary plays and includes a brief survey of *Othello* and *The Taming of the Shrew*. Using a hands-on, active participation approach, the students will interpret, evaluate and perform their interpretations of various playwright's characters keeping theme and intent in mind. A strong emphasis on analytical reading, writing, listening and performance will challenge the student. Several literary papers will be written. A senior research paper, project and speech will be included in the curriculum.

PERFORMANCE AND PLAYWRITING

Gr. 12

**Course 1045
.5 Credit**

Designed for the college bound student, this course focuses on playwriting and performance. Focusing on different genres, the student will write several one act plays, direct and then perform in the plays. Script interpretation, performance elements, various acting styles all will be implemented. A senior research paper, project and speech will be included in the curriculum.





CONTEMPORARY NONFICTION

Gr. 12

Course 1046
.5 Credit

This course provides a survey of contemporary nonfiction designed to intrigue, teach, motivate, and inspire its readers to enhanced awareness of self and society. Students analyze the work of modern authors whose writing encompasses the feature article, personal essay, review, commentary, travel, memoir, humor, science-medical writing, or other forms. In learning to understand and analyze nonfiction, students will develop critical reading and literary study skills for use in other literature courses at the high school or college-level. A senior research paper, project and speech will be included in the curriculum.

CREATIVE NONFICTION WRITING

Gr. 12

Course 1047
.5 Credit

This course will concentrate on writing two principal types of creative nonfiction: 1) that which seeks to represent the personal experience of the author (diary, autobiography, travel writing, meditative essays, cultural criticism), and 2) that which seeks to document the experience of others (journalism, documentary, biography, profiles). Coursework will include a mixture of reading discussions, drafting workshops, media analysis, style and editing exercises, and peer reviews. Goals of the course are to gain a greater understanding of creative nonfiction, sharpen writing and reading skills, and create a supportive, critically engaged space for the creation, discussion, and publishing of student works. A senior research paper, project and speech will be included in the curriculum.

ADVANCED PLACEMENT ENGLISH

Gr. 12

Course 1050
1 Credit

This is a college-level course designed to prepare students for the Advanced Placement Exam in English Literature and Composition, and to provide college-bound students with the type of reading and writing experiences that they will encounter in college. AP Students read five novels, along with numerous short fiction pieces, study poetry and at least three major dramas, including one Shakespearean play. Students write at least three-four analytical papers of three to five typed pages along with one research paper. Class participation is extremely important, as much of the class time is devoted to interpretive discussion of the works studied, and is a significant part of the student's grade. A senior research paper, project and speech are also required.

Prerequisites: Candidates for A P English should have been in the honors program for at least two years, should read well above grade level, should appreciate and enjoy literature, and should have an A/B average in eleventh grade honors English, although students with a strong background and a love of literature are also welcome.

COMMUNICATIONS

Gr. 9, 10, 11, 12

Course 1050
.5 Credit

This is a one semester elective course designed to help students who desire training and experience in public speaking, as well as to enrich talented students who enjoy opportunities to speak and to read aloud. The students will deal with audience analysis, library research, role-playing, listening skills, extemporaneous speaking, original oratory, oral interpretation, debate, problem-solving discussion, dramatic interpretation, and advertising. This is an excellent class for seniors to receive more practice to prepare for their senior project presentation.



**MULTIMEDIA JOURNALISM 1 (†)**

Gr. 9, 10, 11, 12

**Course 1055
1 Credit**

This course is a one credit elective that meets for the entire year and provides students with a basic overview of the fundamentals of journalism in the digital age. Students will study general news gathering and reporting, journalistic style and editing, advertising, and layout & design. Students also have the opportunity to create their own newspapers with hands-on production techniques using Adobe's CS3 InDesign software program. This course is recommended for students who are interested in pursuing a career in journalism, broadcasting, or communications. It is also a prerequisite for students who wish to be on the newspaper or yearbook staff. Students should have a sincere interest in writing.

PRINT JOURNALISM 2-3 (†)

Gr. 10, 11, 12

**Course 1060
1 Credit**

This is an elective course in which students continue to learn and apply their knowledge and skills in the production of the Moon Area High School newspaper, *MoonBeams*. Students will become broadly engaged in all aspects of scholastic newspaper production.

Prerequisite: *Multimedia Journalism 1, Teacher Recommendation*

PRINT JOURNALISM 4 (†)

Gr. 12

**Course 1062
1 Credit**

This elective is for seniors who have dedicated themselves to the production of the school newspaper. Seniors will be expected to assume leadership roles as they continue to learn and apply print journalism knowledge and skills at the highest levels of scholastic newspaper production.

Prerequisites: *Multimedia Journalism 1, Print Journalism 2 and 3, teacher recommendation*

PHOTO JOURNALISM 2Y (†)

Gr. 10, 11, 12

**Course 1070
1 Credit**

This course is a one credit elective through which students will continue to learn and apply the knowledge and skill required to produce the The Flame, the Moon Area High School yearbook. The course will teach the fundamentals of producing a yearbook including: layout, design, advertising, budgeting, teamwork and creative reporting. Students will be responsible for specific assignments and must be able to meet deadlines. After school time/at home computer time is necessary for this class.

Prerequisite: *Journalism 1, 2 and 3, teacher recommendation*

PHOTO JOURNALISM 3Y (†)

Gr. 11, 12

**Course 1071
1 Credit**

This one credit course is a continuation of Photo-Journalism 2Y where students will continue to learn and develop knowledge and skills required to produce high school yearbooks. Students' primary job is to contribute to creating The Flame, the Moon Area High School yearbook. The course will expand and sharpen students' knowledge, skills and aptitudes for producing a high school yearbook.

Prerequisite: *Photo Journalism 1 and 2, teacher recommendation*



**PHOTO JOURNALISM 4Y (†)****Gr. 12****Course 1072****1 Credit**

This one credit elective course is for seniors who have dedicated themselves to the production of the school yearbook. Seniors will be expected to assume leadership roles as they continue to learn and apply photo-journalism knowledge and skills at the highest levels of scholastic yearbook production.

Prerequisite: Photo Journalism 3, teacher recommendation

READING AND WRITING WORKSHOP (†)**Gr. 9, 10, 11, 12****Course 1080****.5 Credit**

This course is a one semester elective designed to focus on the improvement of reading comprehension, grammar, vocabulary and writing skills. It provides students with an opportunity to practice for PSAT, SAT, ACT tests and to write college essays. This program is supported by computer technology in a modern lab where students can use a variety of software to improve most subjects in the high school curriculum. In a series of assignments, students will expand their knowledge of Microsoft Word, the Internet, and research skills. This course can be taken two times for credit.

WRITING FOR THE COLLEGE BOUND (†)**Gr. 11, 12****Course 1085****.5 Credit**

This is a one semester course in which the student learns to view writing as a process and acquires experience and practice in writing for the college classroom. The student will recognize the resources available for his writing, learn to think critically in his writing, develop different writing strategies and learn to write for different situations. Furthermore, the student will be exposed to a variety of writing models, review research methodology, and review usage and syntactical problems. The course will provide the student with preparation to do the kind of writing required in the college classroom. This course is open to juniors and seniors only.





FAMILY AND CONSUMER SCIENCE DEPARTMENT

Foods and Nutrition *Specialty Foods *Regional & International Food
Child Development/Nursery School Child Development 2 & 3

FOODS AND NUTRITION**Gr. 9, 10, 11, 12****Course 4535****1 Credit**

This one-year class focuses on food for the family and includes the study of the nutritional importance of the food guide pyramid. Management of time, energy, and money are an integral part of the class. Students learn basic cooking techniques and then more advanced skills through the shared planning, preparation, and serving of a variety of foods. Students will be in lab one to two days a week and should expect to sample all foods prepared in class.

This food involves the exposure to and the preparation and consumption of foods that may cause allergic reaction(s) in students who are sensitive to food allergens. Caution should be taken when enrolling in this class if you suffer from food allergies.

SPECIALTY FOODS**Gr. 10, 11, 12****Course 4540****.5 Credit**

This one semester course is designed to extend the student's knowledge of food preparation techniques. Advanced skills in cake decorating, candy making, specialty breads and pastries, etiquette, and entertaining will be emphasized. Students should expect to sample all foods prepared in class.

Prerequisite: Foods and Nutrition and Teacher recommendation

REGIONAL AND INTERNATIONAL FOODS**Gr. 10, 11, 12****Course 4545****.5 Credit**

This one semester course will introduce students to regional American cooking as well as foods from various countries. Students will prepare and sample foods as diverse as Hawaiian, New England, Southwest, German, Chinese, French and Italian. Cultural traditions will also be studied. Students should expect to sample all foods prepared in this class.

Prerequisite: Foods and Nutrition and teacher recommendation

CHILD DEVELOPMENT/NURSERY SCHOOL**Gr. 9, 10, 11, 12****Course 4550****1 Credit**

This is a full year, one credit class offered to 9-12th grade students. This is a class for students interested in hands-on experience with children. During the first semester, students will study the development of children from birth to age six, with emphasis on three to five-year-olds. The first semester will also include the study of the different areas of child development, parenting skills and caring for children. The second semester will offer practical experiences with three to five-year-olds in a fourteen week preschool lab. Students will plan and execute developmentally appropriate learning experiences for the children and will observe the stages of development in children.





CHILD DEVELOPMENT 2 & 3

Gr. 10, 11, 12

Course 4555

1 Credit

This is a full year, one credit class offered to 10-12th grade students. This is a class for students interested in extensive hands-on experience with children and a possible career working with children. Students in his class run a preschool lab three days a week for fourteen weeks each semester. Students will plan and execute developmentally appropriate learning experiences for the children and will observe the stages of development in children. Students will also be responsible for the maintenance of the preschool classroom including bulletin boards, calendars, pro boxes, etc. Child Development 3 students will have more responsibilities in the preschool lab and will design developmentally appropriate games for the children.

Prerequisite: C or better Child Development/Nursery School and teacher recommendation





MATHEMATICS DEPARTMENT

Algebra 1 Concepts and Skills	Trigonometry/College Algebra
Algebra 1	Trigonometry/Pre-calculus
Geometry Concepts and Skills	Trigonometry/Pre-calculus Honors
Geometry	Calculus
Geometry - Honors	Advanced Placement Calculus AB
Algebra 2	Advanced Placement Calculus BC
Algebra 2 - Honors	College In High School Business Calculus
Algebra 2A	College in High School Basic Applied Stats
Algebra 2B	Math with Business Applications

ALGEBRA 1 CONCEPTS AND SKILLS**Course 2000****Gr. 9, 10****1 Credit**

This full year course provides a solid foundation in the fundamentals of algebra. The course includes a thorough review of prerequisite mathematics skills. Students who take this course will receive first year algebra instruction that will prepare them for high school graduation.

Prerequisite: Teacher recommendation

ALGEBRA 1**Course 2005****Gr. 9, 10****1 Credit**

This full year course emphasizes the major topics of Algebra through a series of six content clusters. The specific clusters include: operations with real numbers and powers, expressions, equations, and inequalities, linear functions, polynomial and nonlinear functions and rational functions and radicals. This course is intended for those students needing algebra skills to prepare them for their post-high school plans. All college bound students should take this course.

Prerequisite: A grade of "C" or better in Pre-Algebra and teacher recommendation

GEOMETRY CONCEPTS AND SKILLS**Course 2010****Gr. 9, 10, 11, 12****1 Credit**

This full year course is intended for those students who completed Algebra 1 Concepts and Skills. This course emphasizes the major topics of Geometry through a series of five content clusters including line, triangle and quadrilateral relationships, area, volume, right triangle trigonometry, and circles and their parts. Although this course does not have as many proofs as a typical Geometry class, proofs of congruent triangles will be taught to connect postulates, theorems and definitions using logical reasoning.

**Prerequisite: Grade "C" or better in Algebra Concepts & Skills, and teacher recommendation/
Grade "D" or better in Algebra 1 and teacher recommendation**

GEOMETRY**Course 2015****Gr. 9, 10, 11, 12****1 Credit**

This course is intended for those students who completed Algebra 1. This course covers geometric concepts and processes including such topics as reasoning, perpendicular and parallel lines, triangles, quadrilaterals, transformations, similarity and circles. Emphasis is placed on the reasoning skills gained by completing various forms of proofs.

**Prerequisite: Grade "C" or better in Algebra 1 and teacher recommendation
(Advanced students entering 9th Grade must have a "B" or better)**



**GEOMETRY - HONORS****Gr. 9, 10****Course 2020
1 Credit**

This is the second course in the honors sequence of mathematics. It is recommended for those students who have completed Algebra 1 in the 8th grade with a final grade of "A". This course covers geometric concepts and processes including such topics as reasoning, perpendicular and parallel lines, triangles, quadrilaterals, transformations, similarity and circles. Emphasis is placed on the reasoning skills gained by completing various forms of proof. This course will cover more material than an academic geometry class and will have various projects to complete.

Prerequisite: Grade "A" in Algebra 1 and teacher recommendation

ALGEBRA 2**Gr. 9, 10, 11, 12****Course 2025
1 Credit**

This course is intended for those students who have successfully completed Geometry. The content of Algebra 2 is organized around families of functions, including linear, quadratic, radical and rational functions. Students will learn to represent each function in multiple ways – as verbal descriptions, equations, tables, and graphs. Topics such as probability, data analysis, statistics, and basic trigonometry will also be covered.

Prerequisite: Grade of "C" or better in Geometry and teacher recommendation (Advanced students entering 9th grade must have earned a "B" or better)

ALGEBRA 2 - HONORS**Gr. 9, 10, 11, 12****Course 2030
1 Credit**

This is the 3rd course in the honors sequence of mathematics. This course is designed for the students who have completed Geometry Honors with a grade of "B" or better. The content of Algebra 2 is organized around families of functions, including linear, quadratic, exponential, logarithmic, radical and rational functions. Students will learn to represent each function in multiple ways – as verbal descriptions, equations, tables, and graphs. Topics such as probability, data analysis, statistics, and basic trigonometry will also be covered. Each section in this honors course will be extended to cover a more complex array of material.

Prerequisite: Grade of "B" or better in Geometry Honors and teacher rec. (Advanced students entering 9th grade must have earned a "A" or better)

ALGEBRA 2A**Gr. 11, 12****Course 2035
1 Credit**

This course is intended for students who have successfully completed Geometry Concepts and Skills. This is the first of a series of two classes that combined will cover all of the Algebra 2 concepts over two years. It is designed to provide more Algebra skill development while continuing to work on more advanced mathematics skills.

Prerequisite: Grade "C" or better in Geometry Concepts & Skills and teacher recommendation



**ALGEBRA 2B**

Gr. 12

**Course 2040
1 Credit**

This course is intended for students who have successfully completed Algebra 2A. This is the second of a series of two classes that combined will cover all of the Algebra 2 concepts over two years. This course will provide more Algebra skill development. By the end of this course, you will have covered all Algebra 2 topics.

Prerequisite: Grade “C” or better in Algebra 2A and teacher recommendation

TRIGONOMETRY/COLLEGE ALGEBRA

Gr. 11, 12

**Course 2045
1 Credit**

This course is for those students who have shown ability and interest in mathematics through average or higher achievement in algebra and geometry. In addition to a full course in trigonometry, students will experience work in algebra similar to a college level course.

Prerequisite: Grade “C” or better in Algebra 2 and teacher recommendation

TRIGONOMETRY/PRE-CALCULUS

Gr. 10, 11, 12

**Course 2050
1 Credit**

This course is for those students who have shown ability and interest in mathematics through average or higher achievement in algebra and geometry. In addition to a full course in trigonometry, students will be introduced to the elements of analytic geometry.

Prerequisite: Grades “B” or better in Algebra 2 and teacher recommendation

TRIGONOMETRY/PRE-CALCULUS HONORS

Gr. 10, 11, 12

**Course 2055
1 Credit**

This is a course for those students who have shown exceptional ability, interest and motivation in mathematics through high achievement in algebra and geometry. The course includes the full course in plane trigonometry with elements of analytic geometry.

Prerequisite: Grades “A” or “B” in all previous honors math courses and teacher rec.

CALCULUS

Gr. 11, 12

**Course 2060
1 Credit**

This course is an introduction to fundamental calculus. It covers (a) limit of functions, (b) differentiation, (c) application of differentiation and (d) integration.

Prerequisite: “C” or better in Trig/Pre-Calc or Trig/College Algebra and teacher recommendation

ADVANCED PLACEMENT CALCULUS AB

Gr. 11, 12

**Course 2065
1 Credit**

This course is designed for students who have a thorough knowledge of college preparatory mathematics including algebra, axiomatic geometry, trigonometry and analytic geometry, rectangular coordinates, equations and graphs, lines, and conics. Students completing this course may elect to challenge the Advanced Placement Exam in the spring of the school year.

Prerequisite: Grade “A” or “B” in all previous math honors courses and teacher rec.



**ADVANCED PLACEMENT CALCULUS BC**

Gr. 12

Course 2070
1 Credit

This is an advanced-level, demanding, and fast-paced course. It includes a review and an extension of all topics included in the AP Calculus AB. This course also covers other integration techniques that are not covered in AB such as polynomial approximations and series, Taylor Series, and MaLauren Series.

Prerequisite: "C" or better in AP Calculus AB or CHS Business Calculus, and teacher rec.

COLLEGE IN HIGH SCHOOL - BUSINESS CALCULUS*

Gr. 11, 12

Course 2075
1 Credit

This course provides an introduction to calculus for students interested in managerial, social or biological science. Topics include functions, limits and continuity, differentiation, applications of differentiation, integration, exponential and logarithmic functions, and an introduction to multi-variable calculus. Four **college credits** and one high school credit will be awarded for successful completion.

Prerequisite: "C" or better in Trig/Pre-Calc. or Trig/College Algebra and teacher rec.

COLLEGE IN HIGH SCHOOL - BASIC APPLIED STATISTICS*

Gr. 11, 12

Course 2080
1 Credit

This course teaches methods and terminology of descriptive and inferential statistics. Students who complete this course will be able to conduct their own analyses of standard one-sample or two-sample data sets, follow statistical reasoning and read statistical reports with understanding. Introductory topics in linear regression, analysis of variance and contingency table analysis will also be covered. Four **college credits** and one high school credit will be awarded for successful completion.

Prerequisite: "C" or better in Algebra 2 and teacher recommendation.

**Course # 2075 and 2080 are offered through the University of Pittsburgh and provide an opportunity for our students to earn college credit for course work taken in high school. Most colleges and universities in the nation will honor successful completion of these courses and award credit. There is a tuition charge of approximately \$175.00. These courses are available for juniors and seniors.*

MATHEMATICS WITH BUSINESS APPLICATIONS

Gr. 12

Course 2085
1 Credit

This course will include applications of mathematical concepts related to personal and business finance. Topics to be included in this course are purchasing, sales, marketing, accounting, borrowing, charge accounts, and cash purchases.

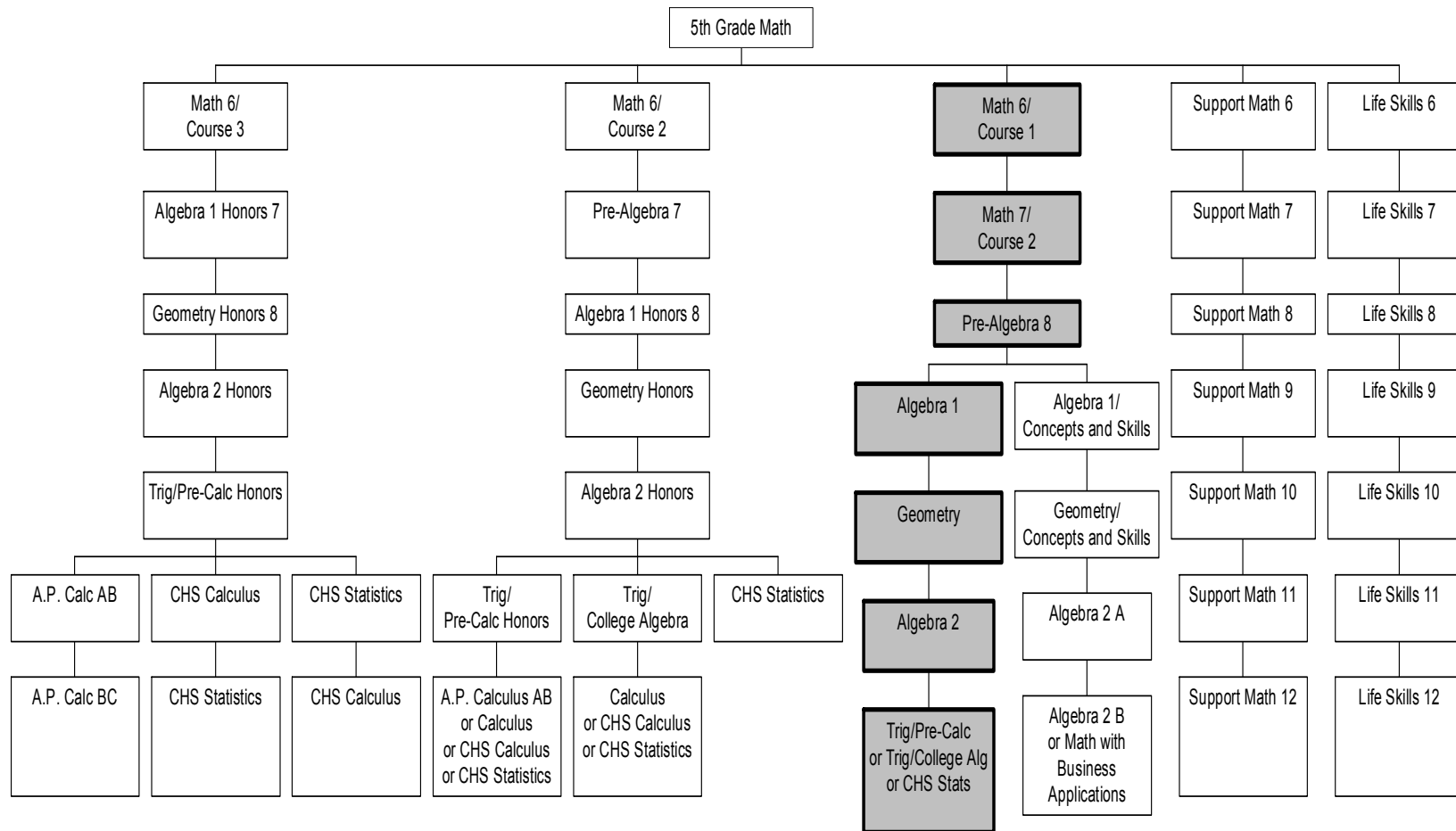
Prerequisite: Two credits of Math and teacher recommendation





Mathematics Sequence Chart*

(for students not enrolled in the Integrated Math Series)





MUSIC DEPARTMENT

- Brass/Woodwind
- Concert Band
- Symphonic Band- Honors
- Chamber String
- Ensemble-Honors
- Percussion Ensemble
- String Ensemble
- Concert Choir
- Chamber Ensemble- Honors
- *Comprehensive
- Musicianship I (+)
- *Comprehensive
- Musicianship II (+)

BRASS/WOODWINDS

9, 10, 11, 12

Course 3560

1 Credit

This year long, one credit course deals with the development of the brass section and the woodwind section of the concert band. Students will learn intermediate and advanced brass/woodwind techniques. Activities include school and community concerts, varsity football games, band festivals and parades. All students electing this course will participate in all facets of the high school's marching band. All freshmen brass/woodwind students and upper class brass/woodwind students not in Symphonic band will elect this course.

Prerequisite: Participation in the Middle School Band or by audition

CONCERT BAND

9, 10, 11, 12

Course 3565

1 Credit

This year long course is for band students who seek an alternative to participation in marching band. Students will study music theory concepts and will learn how to integrate and apply those concepts in their repertoire. Students will learn intermediate and advanced woodwind, brass and percussion techniques. Students will be expected to engage in scheduled rehearsals and performance opportunities, which occur beyond the normal school day and on weekends. Activities include rehearsals, school and community concerts.

SYMPHONIC BAND - HONORS

9, 10, 11, 12

Course 3570

1 Credit

This select group of musicians will perform and study intermediate to advanced band literature, as well as written and non-written music theory assignments. All students wishing to perform in this ensemble must do so by audition only which will occur in May of the proceeding school year. Audition criteria will be based upon standard PMEA Solo/Ensemble Judging Rubrics. Activities include school and community concerts, PMEA/MENC Concert Band Adjudications, all marching band activities such as football games and parades, and after school rehearsals, both concert and marching band. Students will be required to practice and prepare musical selections independently. All students electing this course will be members of the school's marching band. Additional concert attire may need to be purchased for this class. This is a year long, honors credit course.

Prerequisite: By audition only

PERCUSSION ENSEMBLE

9, 10, 11, 12

Course 3575

1 Credit

This year long, one credit course provides interested students with experience in the percussion idiom. This class will serve as the percussion section for the Concert Band, Symphonic Band and Marching Band. Activities include percussion ensemble concerts, school and community concerts, varsity football games, band festivals and parades. Students will have the opportunity to audition for an





honors section of this course that will perform with the symphonic band. All students electing this course will participate in all facets of the high school's marching band. All percussionists must take this course.

Prerequisite: Participation in Middle School Band or by audition

STRING ENSEMBLE

9, 10, 11, 12

Course 3580

1 Credit

This year long, one credit course provides strings (violin, viola, cello, and bass) students with a variety of musical experiences designed to improve their technical playing proficiency as well as their musicianship skills. Students will have the opportunities to play age/skill level appropriate orchestral literature at the highest possible standard. Students will develop advanced playing skills and advanced bowing techniques. Outside of the school day, students may elect to participate in festival competition and/or various other outings related to the goals of the class. Activities include school and community concerts and rehearsals, which may occur beyond the normal school day and on weekends. Additional concert attire may need to be purchased for this class.

Prerequisite: Participation in the Middle School Orchestra or by audition

CHAMBER STRING ENSEMBLE-HONORS

Course 3581

1 Credit

This year long honors course is designed for students interested in performing and studying advanced orchestral literature. Entrance into this string ensemble will be by audition only and will be held in May of the preceding school year. Audition criteria will be based upon standard PMEA Solo/Ensemble Judging Rubrics. Students will learn and perform a variety of styles of music at an accelerated pace. The Honors Chamber String students will also be required to participate in the MAHS String Orchestra. These students will be responsible for learning a great deal of the MAHS String Orchestra music individually, and will also be the foundation of the MAHS String Ensemble. They will be looked upon as mentors to the younger, less experienced members, and therefore will have the opportunity to be promoted to leadership roles within the MAHS String Ensemble. Activities will include community concerts, PMEA/MENC Orchestra Ensemble Adjudications, all MAHS String Ensemble activities, and after school rehearsals. Additional concert attire may need to be purchased for this class.

Prerequisite: By audition only (held in May)

COMPREHENSIVE MUSICIANSHIP I (+)

Course 3582

.5 Credit

This one semester course includes the study of music theory, music aural skills, introduction to composition, basic two-handed piano performance, and study of computers in music. Students will be required to play piano daily, sing, notate music, and manipulate the appropriate music technology programs to complete assignments. Technology programs may include, but are not limited to Sibelius, Finale, Pro Tools. CM is designed to combine music technology and the study of music theory. Students will be required to use their primary instrument in this class. **This course will fulfill the Technology Education Requirement.** **Prerequisites:** Students must be currently enrolled in a performance based musical ensemble (Band, Orchestra or Choir), and be proficient on their primary instrument.





COMPREHENSIVE MUSICIANSHIP II (+)

**Course 3583
.5 credit**

This one semester course is an extension of CM I. This level includes additional advance studies of music theory, piano and technology. CMII will also include an extensive study of theory in relevance to composition. In addition, students will study digital sampling, live multi-track recording, and production of a live recording. **Prerequisites:** Students must be currently enrolled in a performance based musical ensemble (Band, Orchestra or Choir), and be proficient on their primary instrument. In addition, the student must have passed CMI with an average of a B (80%) or higher.

CONCERT CHOIR

9, 10, 11, 12

**Course 3585
1 Credit**

The focus of this year long, one credit course will be to teach students how to improve their vocal abilities on a daily basis through emphasis on proper vocal technique. Students will learn and perform a wide variety of musical styles. The basics of sight and rhythm reading as well as music theory concepts will be integrated into the class, and students will learn how to apply this knowledge. Members of Concert Choir are required to participate in two (2) annual concerts and two (2) dress rehearsals in addition to other performance opportunities that may occur beyond the normal school day. Members of Concert Choir are encouraged to audition for Cantari, an extra-curricular ensemble. Characteristics of an outstanding choral ensemble can be transferred to other areas of life and include integrity, leadership, responsibility, self-discipline and self-esteem. Students may repeat this course for credit.

CHAMBER ENSEMBLE - HONORS

9, 10, 11, 12

**Course 3590
1 Credit**

This yearlong honors course is designed for students who possess exceptional motivation, interest and ability in vocal music. **Students in grades 8-11 are eligible to audition.** Entrance into this choral ensemble will be based on an audition with consideration given to the following criterion: Tone Quality, Intonation, Rhythm, Musicianship, and a Written Interview. Students will learn and perform a variety of sacred and secular repertory at an accelerated pace. Musical genres include: Western European choral classics, spirituals, multicultural, American folk, pop, patriotic, jazz, and musical theater. Chamber Ensemble represents the core of the choral program, as students are required to participate in Concert Choir, Cantari and Chamber Ensemble. In addition to the normal course requirements, students are expected to rehearse independently, maintain a practice log and participate in activities designed to enhance critical thinking skills. Members are required to participate in two (2) annual concerts and two (2) dress rehearsals. Students will be also be expected to participate in scheduled rehearsals and performance opportunities, which occur beyond the regular school day and on weekends. Additional concert attire will need to be purchased for this ensemble. Characteristics of an outstanding choral ensemble can be transferred to other areas of life and include integrity, leadership, responsibility, self-discipline and self-esteem. Students are required to re-audition each year, and may repeat this course for honors credit.

Prerequisite: By audition only [held in May]







HEALTH AND PHYSICAL EDUCATION DEPARTMENT

- *Physical Education
- *Adaptive Physical Education
- *Adaptive Swimming
- *Health Education
- *Health & Wellness Education

Physical Education is required each year at the high school and must be successfully completed in order to meet state and district graduation requirements. Students who do not successfully complete any year of Physical Education or Health 10 will be scheduled for the next grade level plus a repeat course.

*The PA standards for Health Education are met through participation in both Health & Wellness 9 & Health 10.

PHYSICAL EDUCATION

- Gr. 9
- Gr. 10
- Gr. 11
- Gr. 12

- Course 500**
- Course 505**
- Course 510**
- Course 515**
- .5 Credit Each**

Physical Education courses are designed to provide students with instruction and experience in a wide variety of individual and team physical activities. Emphasis is placed on attaining skills and knowledge necessary to pursue a health-enhancing level of physical fitness as an adult. This will be facilitated through an emphasis on the development of positive self-image, leadership, teamwork and cooperation with others, and other skills necessary for transferring class experiences to life long participation in athletic and leisure-time recreational activities. The ninth grade program is focused mainly on fitness-based physical activity. Units include but are not limited to: Fitness training and testing, aquatics (stroke development and conditioning swim), Cardio Sports, Weight Training and Dance. The tenth, eleventh and twelfth grade classes also focus on general fitness training and testing as well as an introduction to Lifetime Sports including: Archery, Tennis, Golf, Canoe/Kayak, Water Sports, Individual/Team Sports and Cooperative Games. Students in grades 10-12 will be given the opportunity to choose the activities they would like to participate in through our PE elective system.

ADAPTIVE PHYSICAL EDUCATION

- Gr. 9
- Gr. 10
- Gr. 11
- Gr. 12

- Course 530**
- Course 535**
- Course 540**
- Course 545**
- .5 Credit Each**

The adaptive physical education program is specifically designed to meet the individual needs of students who are unable to participate in regular physical education for health reasons, physical incapacity, or recommendation of a physician.

Prerequisite: Teacher or physician recommendation





ADAPTIVE SWIMMING

PE 9/Beg. Swim
PE 10/Beg Swim

Course 550
.5 Credit Each

This course is designed to teach students to swim. Any student who is unable to pass our eighth grade Basic Swim Test (jump into the deep, tread for 10 seconds, swim 25 yards) will be scheduled for this course. Basic skills including: breathing techniques, water safety, floating, treading, kicking and stroke development are taught and reinforced. Students will participate in a minimum of 3 swimming units throughout the year. When not in the pool, the class will engage in regular PE 9 or PE 10 physical education activities.

HEALTH EDUCATION

Gr. 10

Course 525
.5 Credit Each

Health is a year-long course for all 10th grade students and is a requirement for graduation. It is designed to provide students with a basic framework of knowledge necessary to develop positive attitudes and practices. Units of study will include, but are not limited to: Nutrition, Eating Disorders, Understanding Drugs and Medicine, Preventing Violence and Abuse, Preventing Infectious Diseases, Lifestyle Diseases, Other Diseases and Disabilities and First Aid/CPR. This course will make use of a combination of lectures, power point presentations, class discussions, student oral presentations, demonstrations, guest speakers, student activities and a Life Issues research paper

***Special Note: Health 10 classes will alternate with PE 10 on a 4 ½ week cycle.**

HEALTH & WELLNESS

Gr. 9

Course 520
.5 credit

This course is required of all freshman students. It will provide information, instruction and experiences that will enable freshmen to gain the basic knowledge and essential skills and attitudes they will need to be successful in high school and beyond. Components of the course will include: Communicating Effectively, Assessing/Evaluating Your Health/Wellness, Goal Setting, Coping With Loss, Stress Management, Suicide Prevention, Physical Fitness, Healthy Relationships and Abstinences/STD Education. This course emphasizes intelligent decision-making and the need to be responsible for one's own health. Concepts are also reinforced through the Seven Habits of Highly Effective Teens (Be Proactive, Begin With the End in Mind, Put First Things First, Think Win-Win, See First to Understand, then to be Understood Synergize, Sharpen the Saw).

***Special note: H&W classes will alternate with P.E. 9 classes on a 4 ½ week cycle.**





SCIENCE DEPARTMENT

- Earth & Its Environment - Applied
- The Earth & Its Environment
- Applied Biology
- Biology
- Biology - Honors
- Biology 2 - Honors
- Physical Science
- Chemistry
- Chemistry - Honors
- Physics
- Physics - Honors
- Earth and Space Science
- AP Chemistry
- AP Chemistry Lab
- College in High School Physics
- AP Biology
- AP Biology Lab

EARTH AND ITS ENVIRONMENT - APPLIED

**Course 2500
1 Credit**

Gr. 9

This is a full year course in which students will study aspects of Earth and Environmental Science. In this course a multidisciplinary approach will be used to explore concepts in the earth's processes including the composition and reshaping of the earth's surface and atmosphere. The students will also examine the world and local environment as it relates to agriculture, watersheds, wetlands, integrated pest management, climate energy resources and waste management. Hands-on activities will be used to give students the opportunity to further explore key concepts in Earth and Environmental Science.

Prerequisite: Recommendation of 8th grade science teacher

THE EARTH AND ITS ENVIRONMENT

**Course 2505
1 Credit**

Gr. 9

This is a full year course in which students will study aspects of Earth and Environmental Sciences. In this laboratory based course, students will explore concepts in the earth's processes including the composition and reshaping of the earth's surface and atmosphere. The students will also examine the world and local environment as it relates to agriculture, watersheds, wetlands, integrated pest management, climate, energy resources and waste management. Students will be expected to analyze, interpret, and make predictions based on given data. This is an academic level science course.

Prerequisite: Recommendation from 8th grade science teacher

BIOLOGY - APPLIED

**Course 2510
1 Credit**

Gr. 10

This is a year long, full credit course that continues the study of applied sciences introduced in Applied Earth and Its Environment. This course emphasizes life science and provides hands-on experiences that demonstrate the practical use of biology in our society.

Prerequisite: Applied Earth and Its Environment

BIOLOGY

**Course 2515
1 Credit**

Gr. 10, 11, 12

This course is designed to introduce the student to basic biological theories, vocabulary, and laboratory practice. Through the process of demonstrations, discussions, cooperative and individual laboratory investigations, and assignments, the unity, continuity and interaction of living systems are emphasized. Students have the opportunity to investigate the characteristics of life, cell biology, genetics and heredity, evolution, classification of life, and ecology and a survey of the animal kingdom. The course is designed for both college and non-college bound students. Students are also encouraged to explore current science topics in this course.

Prerequisite: The Earth and Its Environment



**BIOLOGY - HONORS****Gr. 9, 10****Course 2520****1 Credit**

This course is designed for the superior science student who has demonstrated academic success. The pace of learning is accelerated, the level of expectation high and student independence to accept individual responsibility and effort is essential. The course provides a student with an opportunity to investigate all levels of biological organization with an emphasis on the cellular level. Topics covered include tools of biological investigation, biochemistry, cell structure and function, photosynthesis, respiration, nucleic acid structure and function, genetics, evolution, study of microbes, invertebrates, ecology, environment and limited vertebrate study.

Prerequisite: An "A" average in 8th grade Science, teacher recommendation

BIOLOGY 2 - HONORS**Gr. 11, 12****Course 2525****1 Credit**

This course is designed for students seeking a firm conceptual understanding of biology. It is designed as a second level course to reinforce and enhance some of the concepts of Biology 1. The emphasis in this class is human anatomy and physiology. Biological and chemical concepts are used to understand the function of the human body. This course is recommended for students interested in biology and/or health field careers. Course requirements are successful completion of first level courses in biology and chemistry.

PHYSICAL SCIENCE**Gr. 11, 12****Course 2530****1 Credit**

This is a full year course in which students will study aspects of Chemistry and Physics. A multidisciplinary approach will be used to reinforce concepts of matter and its interactions including topics such as states and structure of matter, chemical reactions, acids and bases. In the second half of the course, students will review key concepts of motion, wave interaction, and electricity. Hands-on activities will be used to give students the opportunity to further explore key concepts in Physical Science.

Prerequisite: Biology or Applied Biology and recommendation from 10th grade science teacher

CHEMISTRY**Gr.10, 11, 12****Course 2535****1 Credit**

This is a course designed for the student seeking a laboratory science credit for college admission or for the student interested in learning more of the chemical nature of his/her environment. The course is an introduction to the discipline of chemistry. The program will examine laws and concepts related to chemistry. Supporting descriptions of matter and the mathematics that apply will also be studied. Laboratory activities to support the classroom studies will be chosen. The student can expect to become involved with the elementary aspects of first year Algebra.

Prerequisite: Students must be taking at least Algebra 2A



**CHEMISTRY - HONORS**

Gr. 10, 11, 12

Course 2540

1 Credit

This is an honors course designed for the above average student seeking or requiring a challenge or for the students that will likely concentrate on a scientific or technological career. The course deals with the theory of chemistry and material descriptions. This course involves an emphasis on mathematical applications of the concepts, theories, and principles. An extensive amount of material is covered, and the student is expected to accept the responsibility of individual effort and study.

Prerequisite: Biology or Biology-Honors

PHYSICS

Gr. 10, 11, 12

Course 2545

1 Credit

This course will be a college prep course and will rely heavily on mathematical principles. The course will cover topics in mechanics, waves, optics, electricity, and it will be Trigonometry/Algebra II based. Students will be required to complete laboratories on the above topics and submit student generated laboratory reports by the required dates.

Prerequisite: Chemistry or taking Chemistry concurrently

PHYSICS - HONORS

Gr. 10, 11, 12

Course 2550

1 Credit

This is an honors course designed for the above average student seeking or requiring an academic challenge. These students will likely concentrate on scientific or technological careers. The course deals with the theory of physics with emphasis on the mathematical description of the concepts, theories, and principles. An extensive amount of material is covered, and the student is expected to accept the responsibility of individual effort and study.

Prerequisite: Chemistry Honors

EARTH AND SPACE SCIENCE

Gr. 11, 12

Course 2555

1 Credit

This is a full year course in which students will study aspects of Earth and Space Science. Although other topics of Earth Science will be explored the main emphasis of this course will be on Oceanography, the Earth's water systems and Astronomy. Hands-on activities will be used to give students the opportunity to further explore key concepts in Earth and Space Science. This course is an elective and may not be used to take the place of the required eleventh grade science course.

Prerequisite: Physical Science or Chemistry (students may take this course with Physical Science or Chemistry), and recommendation from current science teacher

ADVANCED PLACEMENT CHEMISTRY

Gr. 11, 12

Course 2560

1 Credit

This is a rigorous course designed to prepare the student to successfully take the Advanced Placement exam and thereby gain college credit. There is a heavy emphasis on the problem-solving aspects of atomic and molecular structure, thermodynamics, reaction kinetics, equilibrium and electro-chemistry. Extensive laboratory work will accompany and amplify the theoretical aspects of the course.

Acceptance to the course is based on successful completion of Honors Chemistry and Physics courses, proven ability to function independently, and instructor approval. This course requires an additional daily period for lab work.

ADVANCED PLACEMENT CHEMISTRY LAB

Course 2561





Gr. 11,12

.5 Credit

This course must be selected to accompany the Advanced Placement Chemistry course.

COLLEGE IN HIGH SCHOOL PHYSICS**Course 2565**

Gr. 11, 12

1 Credit

This course will be a second year physics course offered to students interested in a career in science, specifically physics or engineering. The course will cover advanced topics in mechanics, and will be taught as a first year college physics course. Students must be concurrently taking Calculus, and will have the opportunity to earn 4 college credits from the University of Pittsburgh.

Prerequisite: Physics

ADVANCED PLACEMENT BIOLOGY**Course 2570**

Gr. 11, 12

1 Credit

AP Biology is designed to be the equivalent of a college introductory biology course. Students taking this course will be eligible to take the AP Biology exam given in the spring. The textbook, range and depth of topics covered, laboratory work required, and time and effort required of students will be similar to a course taken by biology majors in college. The goal of this class is to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process. In AP Biology, primary emphasis is on developing an understanding of concepts rather than memorizing terms and technical details. Topics covered are molecules, cells, heredity, evolution, organisms and populations. This course is more advanced than Honors Biology 2 and requires an additional daily period for lab work.

Prerequisite: Biology, Chemistry (Students may concurrently take Physics and AP Biology)

ADVANCED PLACEMENT BIOLOGY LAB**Course 2571**

Gr. 11, 12

.5 Credit

This semester course must be selected to accompany the Advanced Placement Biology course.



**RECOMMENDED SCIENCE SEQUENCE****Grade 9**Honors Biology**Grade 10**Honors Chemistry
Chemistry**Grade 11***Electives*
Honors Physics
Physics
Physical Science
Biology 2 Honors
AP Chemistry
AP Biology**Grade 12***Electives*
AP Chemistry
AP Biology
CHS Physics
Biology 2 Honors
Earth/Space ScienceEarth and Its EnvironmentBiology
Honors BiologyChemistry
Honors Chemistry
Physical Science

Electives
Biology 2 Honors
Earth/Space Science*Electives*
Physics
Honors Physics
AP Chemistry
AP Biology
Biology 2 Honors
Earth/Space ScienceEarth and its
Environmnt- AppliedApplied Biology
BiologyPhysical Science
Chemistry

Electives
Earth/Space Science*Electives*
Earth/Space Science
Chemistry
Physics

- In order to meet the Pennsylvania State Standards for Science & Technology and Environmental Science, students must select one of the core science courses offered in each academic year grades 9 – 11. Students choosing an elective in grade 11 must also be concurrently enrolled in a core science course for that year. Core science courses are underlined and are located under the grade level on the chart.
- All science course selections must have the approval of the student's current science teacher.

SOCIAL STUDIES DEPARTMENT





Social Studies Grade 9
 Social Studies Grade 9 - Honors
 Social Studies Grade 10
 Social Studies Grade 10 - Honors
 A. P. U.S. History
 Social Studies Grade 11
 Social Studies Grade 11 - Honors

A.P. European History
 Social Studies Grade 12
 A.P. U.S. Government & Politics
 *Ethics
 *Practical Justice
 *Psychology
 *Sociology

*1-semester [.5 credit] elective courses

US HISTORY 1865 TO 1945

**Course 1500
1 Credit**

Gr. 9

This course is an in-depth look at US History from the Reconstruction Era through the close of World War II. The focus is on the political, social and economic development of the United States, including Pennsylvania's role. There is heavy emphasis on accurately completing homework, note taking and organizational skills. The course requires a novel and a research paper.

US HISTORY 1865 TO 1945- HONORS

**Course 1505
1 Credit**

Gr. 9

This course (which includes the same topics as described in the academic 9th grade course) is intended for students who have an interest in social studies and desire a more demanding course offering. In addition to the normal course requirements, students will write essays, at least one persuasive essay, do additional readings and activities designed to enhance critical thinking skills. Students are required to contribute in greater detail to class discussion and to read two novels. There is also a research paper.

Prerequisite: An "A" in 8th grade social studies, an overall 3.5 grade point average and/or teacher recommendation.

COMPARATIVE WORLD HISTORY

**Course 1510
1 Credit**

Gr. 10

The first semester of Comparative World History is an analysis of cultural, economic, social and political history of Eastern Cultures such as the Middle East, India, China and Japan. The second semester highlights include comparisons of those cultures and societies to the development of Western Civilization from the Middle Ages through modern times.

COMPARATIVE WORLD HISTORY-HONORS





Gr. 10

Course 1515
1 Credit

This course (which includes the same topics as described in the academic 10th grade course) is intended for students who have an interest in social studies and desire a more demanding course offering. In addition to the normal course requirements, students will write essays, at least one persuasive essay, do additional readings and activities designed to enhance critical thinking skills. Students are required to contribute in greater detail to class discussion and to read a novel. There is also required research.

Prerequisite: An "A" in 9th grade social studies, an overall 3.5 grade point average and/or teacher recommendation.

ADVANCED PLACEMENT U.S. HISTORY

Gr. 10

Course 1520
1 Credit

This year long course is designed for academically talented sophomores. The course examines the history of the United States from discovery to the present. It is a **rigorous college level course**, which can lead to college credit advanced placement based on the results of the Advanced Placement Exam, which is given here annually. It is necessary for students in this course to have a high level of competence in writing and be self-motivated to cover a myriad of material.

Prerequisite: An "A" in 9th grade social studies, an overall 3.5 grade point average, and/or teacher recommendation

CONTEMPORARY GLOBAL HISTORY & CURRENT EVENTS

Gr. 11

Course 1525
1 Credit

Contemporary Global History is an analysis of the cultural, economic, social, and political history of the United States and the world from the end of World War II to the present day. Course topics include the Truman Era, Cold War, 1950s, the Civil Rights Movement, the Vietnam Era, 1960s, Watergate, the turbulent 70s, Conservatism and the end of the Cold War, global terrorism, 1990s, technology, 2000s, and current events/ issues.

CONTEM. GLOBAL HISTORY & CURRENT EVENTS-HONORS

Gr. 11

Course 1530
1 Credit

This course (which includes the same topics as described in the academic 11th grade course) is intended for students who have an interest in social studies and desire a more demanding course offering. In addition to the normal course requirements, students will write essays, at least one persuasive essay, do additional readings and activities designed to enhance critical thinking skills. Students are required to contribute in greater detail to class discussion and to analyze primary and secondary sources. There are several required research projects.

Prerequisite: An "A" in 10th grade social studies, an overall 3.5 grade point average and/or teacher recommendation



**ADVANCED PLACEMENT EUROPEAN HISTORY**

Gr. 11

**Course 1535
1 Credit**

This course is for academically talented juniors. The course deals with the history of the major European nations that helped establish western civilization. It will be organized on a chronological basis covering approximately the years 1450-1985. The major themes include politics and diplomacy, intellectual, cultural, social, and economic development. These will be examined with each chapter and at the close of each historical era. Student progress will be evaluated on the basis of quizzes, tests, persuasive essays, book reviews and research papers. It is a rigorous college level course, which can lead to college credit or advanced placement based on the results of the Advanced Placement Exam, which is given here annually.

Prerequisite: An "A" in 10th grade social studies, an overall 3.5 grade point average and/or teacher recommendation.

CIVICS AND ECONOMICS

Gr. 12

**Course 1540
1 Credit**

This course is designed to examine how participation in government and analysis of current economic situations will allow students to become more effective citizens of the United States. Students in this course will specifically examine the concepts of constitutional freedom, public policy and participation in government, as well as analyze their state and local governing bodies. Students will also spend time analyzing economics from the perspective of the consumer. U.S. economic policy and how it relates to the world economy will be a major focus. A significant amount of time will also be spent on the personal economics of each learner and how understanding this information will positively impact their future.

ADVANCED PLACEMENT U.S. GOVERNMENT/POLITICS

Gr. 12

**Course 1545
1 Credit**

This course is for academically talented seniors. It will give students an analytical perspective on government and politics in the United States. It will include both the study of general concepts used to interpret U. S. politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. Students will have a comprehensive look at the U.S. Constitution, the development of individual liberties and the political process. Students will write persuasive and informative essays, a formal research paper, three book reviews, and other projects. It is a rigorous college level course, which can lead to college credit or advanced placement based on the results of the Advanced Placement Exam, which is given here annually.

Prerequisite: An "A" in 11th grade social studies, overall 3.5 grade point average and/or teacher recommendation



**ETHICS****Gr. 11, 12****Course 1550****.5 Credit**

This is a one semester elective course that will provide students with historical, philosophical, theoretical, and practical knowledge of ethical situations and moral dilemmas that are present in society. Students will be able to analyze how ethical principles have developed over time, as well as how different societies and cultures deal with ethical situations. The course will also focus on decision making and how using ethical principles can lead to effective decision making strategies. A significant portion of the class will be used to analyze current ethical questions plaguing American society and how resolution might be reached. As a final evaluation, students will be required to analyze and resolve a specific ethical dilemma and present that research in electronic, oral, and written form.

PRACTICAL JUSTICE**Gr. 11, 12****Course 1555****.5 Credit**

This is a one semester elective course that will provide students with practical information and problem solving opportunities that develop the knowledge and skills necessary for survival in our law-saturated society. Students will leave this course with the ability to analyze, evaluate and resolve legal disputes and will be challenged to consider legal aspects of some of the most difficult issues facing our democracy today. A significant portion of the course will be dedicated to identifying and analyzing current legal issues in American society. Case studies, mock trials, role plays, small group activities, intense discussions and visual analysis activities will also be used to provide a framework for learning. Students will be required to research, analyze and present an actual case study as a final evaluation for the course.

PSYCHOLOGY**Gr. 11, 12****Course 1560****.5 Credit**

This is a one semester elective course that will introduce students to the scientific study of human and animal behavior. Students will gain a better understanding of their own behavior and the behavior of others. Topics covered will examine the psychological perspectives, the history of psychology, learning and cognition, intelligence, adolescent behavior and psychological disorders. Students will be required to participate in class group activities and complete an in-depth research project on a psychological issue of their choice.

SOCIOLOGY**Gr. 11, 12****Course 1565****.5 Credit**

This is a one semester elective course that will introduce students to the study of society and society's problems. Students will gain a better understanding of themselves and their social world. Topics covered will examine: sociological perspective, cultural socialization, groups and organizations, stratification, inequality and gender, race and ethnicity, and the American Value System. Sociology seeks to describe and explain various aspects of social life, particularly how the groups and the society of which we are a part influence our lives and how we in turn may bring about changes in our times. Students will be required to participate in class groups activities and complete an in-depth research project on a social issue of their choice.





SPECIAL EDUCATION DEPARTMENT

These courses are offered as special education courses that are assigned to students by special education teachers based upon Individual Education Programs. These courses are not open to the general student body and must be scheduled and approved by a special education teacher and a counselor. (Other Special Education courses not listed will be scheduled by a special education teacher and/or counselor as needed or when circumstances require.)

PRE-ALGEBRA

**Course 6200
1 Credit**

Gr. 9

This course is the beginning of the math series for students entering the high school's Special Education Program. Basic concepts of Pre-Algebra will be explored. This course will prepare the student to enter into Algebra 1.

ALGEBRA 1 CONCEPTS AND SKILLS

**Course 6205
1 Credit**

Gr. 10

This course will give students a solid foundation in the fundamentals of algebra. This class is intended for students in Learning Support Math who have *completed* Pre-Algebra.

GEOMETRY CONCEPTS AND SKILLS

**Course 6210
1 Credit**

Gr. 11, 12

This course focuses on the key topics that provide a strong foundation in the essentials of geometry. Students in the Learning Support Math Program who have *completed* Algebra 1 Concepts and Skills are eligible to take this course.

CONSUMER MATH

**Course 6215
1 Credit**

Gr. 10, 11, 12

This course will give students a general understanding of math used in real-life situations. There is a two year cycle between Consumer Math and Math for the World of Work. Any student in 10th, 11th or 12th learning support math may take this course for one or two years.

The following one credit courses follow the curriculum described in the English Section:

ENGLISH 9	Course 6000
ENGLISH 10	Course 6005
ENGLISH 11	Course 6010
ENGLISH 12	Course 6015
DEVELOPMENTAL READING	Course 6405

The following one credit courses follow the curriculum described in the Social Studies Section:

SOCIAL STUDIES 9	Course 6100
SOCIAL STUDIES 10	Course 6105
SOCIAL STUDIES 11	Course 6110
SOCIAL STUDIES 12	Course 6115





TECHNOLOGY EDUCATION DEPARTMENT

Pre-Engineering (+)
Manufacturing 1 (+)
Metal Technology, Fabrication and Design
Advanced Manufacturing (+)

Technical Drawing and Design (+)
Engineering Drawing and Design (+)
Architectural Drawing & Design (+)
TV Studio & Media Production (+)

PRE-ENGINEERING (+) (Replacing Tech & Society)

Course 4500
1 Credit

Gr. 9, 10, 11, 12

This one year course is designed to provide students with knowledge and hands-on experience exploring the development, use and impacts of technology in the areas of manufacturing, construction, transportation, communication. Students, working alone and in groups, will problem solve, design, develop, construct and test vehicles, such as CO2 cars, model airplanes, and many others as well.

MANUFACTURING 1 (Replacing Wood Technology, Fabrication & Design)

Course 4505
1 Credit

Gr. 9, 10, 11, 12

This one year course is designed to develop the students' planning skills for designing items constructed of wood. Students are instructed in the application of hand and power tools to specific fabrication techniques. The instruction in this course is centered on power machinery. Emphasis is placed on operational procedure, design, problem solving and safety. Students will be exposed to a variety of CNC machines.

METAL TECHNOLOGY, FABRICATION AND DESIGN**Limit 3 years**

Course 4510
1 Credit

Gr. 9, 10, 11, 12

This one year course consists of sheet metal fabrication, forging; gas, arc, TIG and MIG welding, plasma cutting and foundry technologies. Machine-tool technology includes operational techniques of the engine lathe, vertical mill and other power equipment. Advanced metal fabricating techniques are included to develop and relate aesthetic expression with industrial fabrication techniques. Computer numerical control (CNC) applications and programming will be incorporated with the use of a CNC mill and plasma cutting. Material testing and plastics will also be discussed.

ADVANCED MANUFACTURING (+)

(Replacing Adv. Wood Technology, Fabrication and Design)

Course 4515
1 Credit

Gr. 10, 11, 12

This one year advanced study course designed to provide and develop abilities and skills in students in the areas of complex case design and furniture construction. Students are instructed in the application of hand and power tools to specific fabrication techniques through activity based methodologies. The instruction in this course is centered on power machinery, manual layout and design, and CNC machining. Emphasis is placed on safety, operational procedures and design.

Prerequisite: Wood Technology, Fabrication and Design



**TECHNICAL DRAWING AND DESIGN (†)****Gr. 9, 10, 11, 12****Course 4520
1 Credit**

This basic one year course in drafting gives the student a good understanding and background in technical illustration and enables the student to become acquainted with the skills needed to become proficient. The student will learn concepts from basic two-dimensional representations to complex three-dimensional solids. Students will gain experience in both traditional board drawing to computer-aided design using AutoCAD software.

**ENGINEERING DRAWING AND DESIGN (†) Limit 2 years
(Limit 2 years)****Gr. 10, 11, 12****Course 4525
1 Credit**

Engineering Drawing and Design is a course that develops problem solving skills with emphasis on 3D modeling or solid rendering of an object. Students focus on the application of visualization processes and tools using the Inventor software. The course emphasizes the design-development process of a product and how a model of that product is produced, analyzed, and evaluated, using a Computer-Aided Design System. Various design applications are explored with discussion of possible career opportunities.

Prerequisite: Technical Drawing and Design

ARCHITECTURAL DRAWING AND DESIGN (†)**Gr. 10, 11, 12****Course 4530
1 Credit**

This one year course gives students experience in basic residential design. The fundamental sequences in designing and drawing are stressed as the student completes the architectural drawings necessary for the construction of a residence. Elements of the course include architectural styles, area planning, structural detailing, building specifications and cost analysis. Several computer software packages will be used to create detailed plans and drawings.

TELEVISION STUDIO AND MEDIA PRODUCTION (†)**Gr. 9, 10, 11, 12****Course 4531
1 Credit**

This course covers the foundations in theory and practice of television studio and media production. In this course students learn to operate professional television studio equipment and will develop, examine, and practice approaches to all phases of production through writing, shooting, and editing a variety of video productions and short film style projects. Students also learn to operate digital post-production and image manipulation software. This course will include laboratory activities and student-generated projects. Assessments will include projects, portfolio pieces, tests, and quizzes. Students in this course must be highly motivated, attentive, and willing to accept challenges.





WORLD LANGUAGE DEPARTMENT

French 1
 French 2
 French 3
 French 4
 French 4-Honors
 French 5
 French 5-Honors

German 1
 German 2
 German 3
 German 4
 German 4-Honors
 German 5
 German 5-Honors
 Mandarin Chinese 1

Spanish 1
 Spanish 2
 Spanish 3
 Spanish 4
 Spanish 4-Honors
 Spanish 5
 Spanish 5-Honors
 Mandarin Chinese 2

** Online 1-credit course*

FRENCH 1

Gr. 9, 10, 11, 12

Students begin their study of French with the emphasis on oral communication. Using conversation, students learn vocabulary, culture and basic grammar. Other learning activities include puzzles, songs, readings, and multimedia resources. The culture and lifestyles of French-speaking people are also covered.

Prerequisite: Grade of "C" or better in English

Course 3000

1 Credit

FRENCH 2

Gr. 9, 10, 11, 12

Students continue to develop their language skills as they read, write, and practice speaking in a variety of situations. Students learn to express themselves in the past tense. Writing skills are developed as knowledge of vocabulary and sentence structure increases. French culture is interwoven through the use of games, and multimedia resources.

Prerequisite: Grade of "C" or better in French 1

Course 3005

1 Credit

FRENCH 3

Gr. 9, 10, 11, 12

Students develop a more thorough knowledge of vocabulary, grammar, and French culture. They communicate in French daily, developing conversational skills in a wide variety of situations. Writing skills are also stressed. The cultures of French-speaking countries in Europe and Africa are studied.

Prerequisite: Grade of "C" or better in French 2

Course 3010

1 Credit

FRENCH 4

Gr. 9, 10, 11, 12

Through various interactive activities and projects, students improve their speaking and writing skills. Grammatical concepts are reviewed as students read and discuss short stories, poems, and articles. In addition, students will add to their understanding of French culture through slides, films, and other authentic materials.

Prerequisite: Grade of "C" or better in French 3

Course 3015

1 Credit



**FRENCH 4 - HONORS**

Gr. 9, 10, 11, 12

Course 3020
1 Credit

This course is designed for students who demonstrate outstanding ability in grammar, writing, reading and speaking skills. In addition to the regular course work, the student will be required to complete one independent project for each grading period and will have additional questions and/or sections on some tests and quizzes.

Prerequisite: "A" average in French 3 and teacher recommendation

FRENCH 5

Gr. 9, 10, 11, 12

Course 3025
1 Credit

Students enhance their communication skills as they read and discuss selected literary works, review grammatical structures, and engage in activities focusing on expressing their ideas. Composition, creative writing, and letter writing are included.

Prerequisite: Grade of "C" or better in French 4

FRENCH 5 - HONORS

Gr. 9, 10, 11, 12

Course 3030
1 Credit

This course is designed for students who demonstrate outstanding ability in grammar, writing, reading and speaking skills. In addition to the regular course work, the student will be required to complete one independent project for each grading period and will have additional questions and/or sections on some tests and quizzes.

Prerequisite: "A" average in French 4 and teacher recommendation

GERMAN 1

Gr. 9, 10, 11, 12

Course 3035
1 Credit

Students begin their study of German with the emphasis on oral communication. Through oral and written activities, students learn vocabulary, culture, and basic grammar. Additionally, they begin to read authentic texts, such as, school and train schedules, menus, maps and advertisements. Games, dialogues, videos, and skits are used to practice new skills.

Prerequisite: Grade of "C" or better in English

GERMAN 2

Gr. 9, 10, 11, 12

Course 3040
1 Credit

Students further develop their language skills as they read and write stories and dialogues and practice speaking in a variety of situations. Students learn the geography of Europe and Germany as they plan trips to German-speaking countries. German culture is interwoven through the use of games, hands-on activities and multimedia resources.

Prerequisite: Grade of "C" or better in German 1

GERMAN 3

Gr. 9, 10, 11, 12

Course 3045
1 Credit

Students continue to expand their communication skills through the acquisition of new vocabulary and grammar as well as hands-on activities including simulations and games, and reading and writing activities. Students develop an increasing understanding of the cultures of the German-speaking countries through authentic readings, music, and videos.

Prerequisite: Grade of "C" or better in German 2



**GERMAN 4**

Gr. 9, 10, 11, 12

Through various interactive activities and projects, students begin to tone their skills particularly in the areas of speaking and writing. Grammatical concepts are reviewed as students read and discuss short stories, poems, and articles. Students practice more sophisticated ways of expressing themselves as they explore topics of contemporary life in Germany. Students further enhance their knowledge of German-speaking countries through videos, films, and other forms of authentic materials.

Prerequisite: *Grade of "C" or better in German 3*

Course 3050

1 Credit

GERMAN 4 - HONORS

Gr. 9, 10, 11, 12

This course is designed for students who demonstrate outstanding ability in grammar, writing, reading and speaking skills. In addition to the regular course work, the student will be required to complete one independent project for each grading period and will have additional questions and/or sections on some tests and quizzes.

Prerequisite: *"A" average in German 3 and teacher recommendation*

Course 3055

1 Credit

GERMAN 5

Gr. 9, 10, 11, 12

Students enhance their communication skills as they read and discuss selected literary works, review grammatical structures for communication, and engage in activities focused on expressing their ideas. Students will learn idiomatic patterns of the language. They will write stories, letters, poems, articles, and analyze selections of German literature.

Prerequisite: *Grade of "C" or better in German 4*

Course 3060

1 Credit

GERMAN 5 - HONORS

Gr. 9, 10, 11, 12

This course is designed for students who demonstrate outstanding ability in grammar, writing, reading and speaking skills. In addition to the regular course work, the student will be required to complete one independent project for each grading period and will have additional questions and/or sections on some tests and quizzes.

Prerequisite: *"A" average in German 4 and teacher recommendation*

Course 3065

1 Credit

SPANISH 1

Gr. 9, 10, 11, 12

Students begin with an emphasis on oral communication. Through oral, listening, and written activities, students learn vocabulary, basic grammar, and culture of the Spanish-speaking countries. Videos, games, multimedia resources are used to practice the four basic skills of speaking, listening, reading and writing.

Prerequisite: *Grade of "C" or better in English*

Course 3070

1 Credit

SPANISH 2

Gr. 9, 10, 11, 12

Students continue to develop their language skills as they read and practice speaking in a variety of situations. They continue to study the geography and culture of the Spanish-speaking areas of the world. Videos, multimedia resources, games, role-playing and other activities enhance their ability to communicate in Spanish.

Prerequisite: *Grade of "C" or better in Spanish 1*

Course 3075

1 Credit



**SPANISH 3****Gr. 9, 10, 11, 12**

Students further expand their communication skills through practicing old and learning new vocabulary and grammar. Conversation, role-play simulations, listening practice, and reading and writing practice are included. Authentic readings, movies, videos, games, interviews, and tapes are used.

Prerequisite: Grade of "C" or better in Spanish 2

Course 3080**1 Credit****SPANISH 4****Gr. 9, 10, 11, 12**

Emphasis is placed on speaking and writing skills. Reading of short stories, poems, etc. is included. Students further enhance their knowledge of cultural aspects through their exposure to art, music, and other humanities.

Prerequisite: Grade of "C" or better in Spanish 3

Course 3085**1 Credit****SPANISH 4 - HONORS****Gr. 9, 10, 11, 12**

This course is designed for students who demonstrate outstanding ability in grammar, writing, reading and speaking skills. In addition to the regular course work, the student will be required to complete one independent project for each grading period and will have additional questions and/or sections on some tests and quizzes.

Prerequisite: "A" average in Spanish 3 and teacher recommendation

Course 3090**1 Credit****SPANISH 5****Gr. 9, 10, 11, 12**

Students enhance their communication skills as they read and discuss selected literary work, review grammatical structures, and engage in activities focusing on expressing their ideas. Composition, creative writing, and letter writing are included.

Prerequisite: Grade of "C" or better in Spanish 4

Course 3095**1 Credit****SPANISH 5 - HONORS****Gr. 9, 10, 11, 12**

This course is designed for students who demonstrate outstanding ability in grammar, writing, reading and speaking skills. In addition to the regular course work, the student will be required to complete one independent project for each grading period and will have additional questions and/or sections on some tests and quizzes.

Prerequisite: "A" average in Spanish 4 and teacher recommendation

Course 3100**1 Credit**



MANDARIN CHINESE 1
Gr. 9, 10, 11, 12

Course 3105
1 Credit

This is a Distance Learning course via the Live Video Network. This course offers students an introduction to Mandarin Chinese. Students will learn the basic concepts of sentence structure, pronunciation, and writing in addition to building a meaningful vocabulary. The course curriculum will follow the model used by the Confucius Institute at Michigan State University and Kansas University. Confucius Institute Mandarin Chinese courses are designed to create such conditions through a combination of modern multimedia, technology and teachers from The Peoples Republic of China. Unlike most computer-based learning or online language programs, this course will include real time instruction providing the student with: high-level communication practices, relevant feedback, social interaction, and instructions about learning strategies.

MANDARIN CHINESE 2
Gr. 10,11, 12

Course 3110
1 Credit

This is a Distance Learning course via the Live Video Network. This course offers students a continuation to Mandarin Chinese 1. Students who have successfully completed Mandarin Chinese 1 and can display adequate competency of the concepts taught may enroll. Students will be exposed to an increased vocabulary, more complex sentence structures, and Chinese characters. Focus will continue to be placed on real work applications of language, both spoken and written. Students will also further develop their pronunciation and writing skills.

Prerequisite: Grade of "C" or better in Mandarin Chinese 1





PARKWAY WEST CAREER & TECHNOLOGY CENTER

NOTE: Students will attend Parkway West Area Career & Technical School for a half-day, each afternoon. Transportation is provided by Moon Area School District. The other half of the day is spent at the home school where students will complete academic requirements and participate in co-curricular activities. All Parkway West Area Technical School courses are four credit courses. Students can receive advanced credit toward an Associate Degree at CCAC for work completed at Parkway West in several programs upon meeting the requirements of the articulation agreement. Special note: Completing two (2) successful years at Parkway West will be counted toward meeting the MAHS Technology Education credit requirement for graduation purposes.

Parkway West Career Majors

AUTO BODY REPAIR

Gr. 10, 11, 12

Course 5030

4 Credits

The Auto Body Repair program provides instruction in the most current techniques for repair and replacement of damaged automobile parts. Students learn to repair collision damage and to replace quarter panels, door skins, and fenders. This program includes painting, MIG welding, collision repair, frame straightening, and damage analysis. Students gain experience in detailing, custom painting, mixing and tinting paint, and computerized estimating.

Training is provided in a full-service auto body repair shop, and qualified students may participate in an apprenticeship experience working under mentor technicians. Successful students will be given the opportunity to earn PPG Blue Level Paint, I-Car MIG Welding, and Automotive Youth Educational Systems (AYES) certifications. Students are also eligible to earn I-Car Points.

AUTOMOTIVE TECHNOLOGY

Gr. 10, 11, 12

Course 5035

4 Credits

Automotive Technology program provides instruction in basic vehicle maintenance, repair, and replacement of drive trains, brake systems, chassis components, and fuel and electrical systems. This program includes special emphasis on trouble-shooting and engine performance via the use of state-of-the-art electronic diagnostic equipment.

Students get practical experience in the school's repair shop, and, may qualify to participate in an apprenticeship experience working under mentor technicians. Successful students will be given the opportunity to earn Automotive Youth Educational Systems (AYES), National Institute for Automotive Service Excellence (ASE), and Coordinating Committee for Automotive Repair (CCAR) certifications.





CONSTRUCTION TECHNOLOGY CLUSTER

Gr. 10, 11, 12

**Course 5000
4 Credits**

**AIR CONDITIONING
MASONRY**

**Course 5001
Course 5004**

First-year students spend a semester in each of the four courses offered in the Construction Technology Cluster: Heating, Ventilation, Air-Conditioning and Refrigeration, and Masonry. Second and third-year students may choose to pursue certification in one of the following areas:

The Heating, Ventilation, Air-Conditioning, and Refrigeration program provides students with instruction in basic and advanced electrical theory, troubleshooting and repair of residential and commercial heating, air conditioning and refrigeration systems. Students will be given the opportunity to earn Occupational Safety and Health Administration (OSHA) 500 certification.

The Masonry program provides students with instruction in the construction of brick and block foundations and walls, as well as ornamental masonry and ceramic tile installation. Students will be given the opportunity to earn Occupational Safety and Health Administration (OSHA) 500 certification.

COSMETOLOGY 1

Gr. 10, 11, 12

**Course 5040
4 Credits**

**COSMOTOLOGY 2
COSMOTOLOGY 3**

**Course 5045
Course 5050**

The practical skills taught in this program include shampooing, cutting, wet setting, thermal styling, relaxing, coloring, permanent waving, manicuring, and facials. Emphasis is also placed on bacteriology, sterilization, safety, anatomy, dermatology, trichology, chemistry, as well as electricity and light therapies.

The Cosmetology program provides all of the necessary instruction to meet the Pennsylvania State Board of Cosmetology requirements for the licensed cosmetologist examination. Students learn to perform services in a full-service beauty salon. Successful students will be given the opportunity to earn a cosmetology license and CPR certification.

CULINARY ARTS CLUSTER

Course 5010





Gr. 10, 11, 12

4 Credits

**CULINARY ARTS
FOOD STORE OPERATIONS
PASTRY ARTS**

**Course 5011
Course 5012
Course 5013**

First-year students spend twelve weeks in each of the three courses offered in the Culinary Arts Cluster: Culinary Arts, Food Store Operations, and Pastry Arts. Second and third-year students may choose to pursue certification in one of the following areas.

The Culinary Arts program provides students with practical instruction in the preparation of banquet, buffet, and a la carte styles of food preparation. Practical experience is provided through the operation and management of a full-service restaurant. Students can earn the National Restaurant Association's ServSafe certification.

The Food Store Operations program provides students with the skill necessary to operate a full-service deli-style food store, and prepare meats for retail and commercial food service establishments. Practical experience is provided through the operation and management of a full-service restaurant. Training is provided utilizing a deli-style food store. Students can earn the National Restaurant Association's ServSafe certification.

The Pastry Arts program provides students with practical instruction in the production of fancy pastries, decorated cakes, pies, cookies, and bread products. Training is provided utilizing a full-service restaurant and deli-style food store. Students can earn the National Restaurant Association's ServSafe certification.

DRAFTING AND DESIGN

Course 5055

Gr. 10, 11, 12

4 Credits

The Drafting and Design program provides instruction in the basic techniques necessary to prepare detailed drawings for projects in the mechanical, architectural, structural, piping, mapping, and electrical fields. Students learn traditional board drawing methods utilizing mechanical methods and then advance to the application of Auto CAD and other Computer Aided Drafting (CAD) programs.

Students are also taught the proper care and use of the tools and equipment of the trade such as scales, templates, compasses, technical pens, reproduction equipment, personal computers, plotters, and printers. Eligible students can participate in California University's Cal U in the High Schools program which they may earn up to 6 college credits.





HEALTH ASSISTANT

Gr. 10, 11, 12

**Course 5060
4 Credits**

The Health Assistant program provides instruction in anatomy, physiology, and medical terminology. Special attention is given to medical office examinations and treatment.

Students participate in real-world clinical experiences with local healthcare professionals in order to provide a variety of healthcare career options. Clinical experiences may include: daycare, long-term care, emergency nursing, recovery room nursing, radiology, physical therapy, and/or lab technician. Successful students will be given the opportunity to earn Home Health Aide, Nurse Aide, and CPR certifications.

INFORMATION TECHNOLOGY CLUSTER

Course 5020

BUSINESS TECHNOLOGY

Course 5021

COMPUTER TECHNOLOGY

Course 5022

DIGITAL MULTIMEDIA TECHNOLOGY

Course 5023

INFORMATION TECHNOLOGY ESSENTIALS

Course 5024

First-year student spend nine weeks in each of the four courses offered in the Information Technology Cluster: Business Technology, Computer Technology, Digital Multimedia Technology, and Information Technology Essentials. Second and third-year students may choose to pursue certification in one of the following areas.

The Business Technology program provides instruction in Microsoft Word, Excel, Access, and PowerPoint. Successful students can earn several Microsoft certifications.

The Computer Technology program provides instruction in areas of information processing which include: computer programming (Visual Basic, C++, and others), configuration and administration of Microsoft networks, web design and web page creation using Macromedia (Flash, Dreamweaver, and Fireworks). Successful students can earn several Microsoft certifications.

The Digital Multimedia Technology program provides instruction in basic graphic design including the creation and editing of images, video, and web design. Instruction will include HTML, XML, Javascript, graphic applications, and other authoring tools to design edit, and publish documents, images, graphics, and multimedia in print and electronic form.

The Information Technology Essentials program provides students instruction in building and repairing computers and how to install, configure, and troubleshoot operating systems, applications software, and local and wide area network configurations. This program is operated in collaboration with the Cisco Learning Institute and will afford successful students the opportunity to earn CompTIA's A+ and Cisco Certified Network Associate (CCNA) certifications.





MACHINE TOOL TECHNOLOGY

Gr. 10, 11, 12

**Course 5065
4 Credits**

The Machine Tool Technology program provides instruction on metallurgy, the properties and tolerances of various metals, and how to select and sequence machine operations.

Students will learn how to precisely shape metals with lathes, mills, grinders, machines, and computer guided (CNC) technology. Successful students will have the opportunity to earn National Institute for Metalworking Skills, Inc. (NIMS) certification.

PUBLIC SAFETY TECHNOLOGY

Gr. 10, 11, 12

**Course 5070
4 Credits**

The Public Safety Technology program provides a comprehensive public safety education to students interested in careers in the fields of emergency medical services, firefighting, law enforcement, or emergency management services.

This program includes instruction in disaster management, hazardous materials handling, pre-hospital medical care, firefighting, judicial system, and emergency dispatching. Successful students will have the opportunity to earn the following certifications: Emergency Medical Technician- Basic (EMT-B), Basic Vehicle Rescue (BVR), Emergency Vehicle Operators Course (EVOC), Hazardous Materials Recognition and Identification (Haz-Mat R&I), and multiple Federal Emergency Management Agency certifications.

WELDING TECHNOLOGY

Gr. 10, 11, 12

**Course 5075
4 Credits**

The Welding Technology program is designed to train students in the use of oxy-fuel, shielded metal arc, gas metal arc, gas tungsten arc, flux core welding, carbon arc, plasma cutting, and oxy-fuel brazing processes.

This program includes instruction in the use of measuring instruments, hand tools, grinders, metallurgy, blueprint reading, electrical principles, layout and design, and fabrication. Students will also learn to prepare material lists and do cost estimating. Students will have the opportunity to earn American Welding Society (AWS) certification.

Parkway West Academic Course Offerings



**APPLIED COMMUNICATIONS****Gr. 10, 11, 12**

Applied reading, writing, listening, speaking, problem solving, and non-verbal skills are integrated with students' program area. (This course must be scheduled by a guidance counselor.)

**Course 5080
1 Credit****ALGEBRA 1****Gr. 10, 11, 12**

Basic algebra one concepts for students who need a math credit. (This course must be scheduled by a guidance counselor.)

**Course 5085
1 Credit****ALGEBRA 2****Gr. 10, 11, 12**

Basic algebra 2 concepts for students who need a math credit. (This course must be scheduled by a guidance counselor.)

**Course 5090
1 Credit****GEOMETRY****Gr. 10, 11, 12**

Basic geometry concepts for students who need a math credit. (This course must be scheduled by a guidance counselor.)

**Course 5095
1 Credit****PRINCIPLES OF TECHNOLOGY****Gr. 10, 11, 12**

Applied physics is for students in technical programs who need a science credit. (This course must be scheduled by a guidance counselor.)

**Course 5100
1 Credit**

Academic course offering note: *Many other academic course offerings will be available through eAcademy, an online collaborative. These courses will be scheduled through the Parkway West counselors on an individual basis.*





Moon Area High School
Dual Enrollment Program Early Release Application for Juniors
2011-2012

Name: _____ Date: _____

This program allows seniors who have completed a minimum of 14 credits to enroll in college courses. Students who desire to participate in this program must enroll in a minimum of six (6) morning classes at Moon Area High School each semester and show proof of enrollment in a college course. Participating juniors will be dismissed no earlier than 1:25 PM. No high school credit will be given for college or university course work. It is the student's responsibility to notify their guidance counselor of their withdrawal from any college courses or program. Completion of an application and course approval by the principal are required.

Students are permitted to participate in all co-curricular activities and athletics

APPLICATION DETAILS ARE LOCATED ON NEXT PAGE.

Graduation Requirements

A minimum of 24 credits, satisfactory completion of a senior project and proficiency on: PSSA Reading, Math and Writing Assessments, or local assessments, 75% or better achievement on state standards-correlated classroom assessment, or an approved Individualized IEP

- | | |
|--------------------|-------------------------------------|
| 4 – English | 2 – Arts and Humanities |
| 4 – Social Studies | 2.5 – Health and Physical Education |
| 3 – Science | 1.0 – Technology Education |
| 3 – Mathematics | 4.5 – Electives |

Student Commitment:

By completing this application I request permission to participate in next year's Dual Enrollment Early Release Program. I will be able to meet all graduation requirements.

_____ *Student Signature* _____ *Date*

Parent Commitment: *(To be completed by the applicant's parent(s) or guardian(s).*

We have discussed the Dual Enrollment Program Early Release with our child and agree with his/her request.

_____ *Parent Signature* _____ *Date*





Approval of this application allows seniors to enroll in college courses during their junior year

Students must meet the following eligibility requirements to apply for Dual Enrollment:

- Students must have completed a minimum of 14 credits and be currently scheduled to meet necessary Moon Area High School graduation requirements by the end of the current school year.
- Student academic records, including all standardized test scores, will be reviewed to determine qualification for meeting the college requirements.
- The student must have earned a 3.0 QPA or better to enter the program.
- Student must select a minimum of six (6) Moon Area High School credits in the morning when scheduling for the school year.
- Student may only enroll in courses that are not offered at Moon Area High School.
- Student must maintain a 2.0 grade point average in dual enrollment courses to remain in the program.

Counselor Recommendation:

_____ # credits anticipated at end of present semester.

Credits needed in each of the following academic areas:

_____ English Language Arts	_____ Arts and Humanities
_____ Social Studies	_____ Health & Physical Education
_____ Mathematics	_____ Technology
_____ Science	_____ Electives

Courses that will be taken to complete the above requirements:

_____	_____
_____	_____
_____	_____
_____	_____

A review of the present records indicates that graduation requirements can be completed during the applicant's senior year.

The application has been discussed with both the student and the parent/guardian.

I recommend approval of this request:

_____	_____
<i>Counselor's Signature</i>	<i>Date</i>

I recommend approval of this request:

_____	_____
<i>Principal's Signature</i>	<i>Date</i>





**Moon Area High School
Dual Enrollment Program Early Release Application for Seniors
2011-2012**

Name: _____ Date: _____

This program allows seniors who have completed a minimum of 20 credits and have scheduled the necessary courses to meet all graduation requirements by the end of the school year to enroll in college or technical school courses. Students who desire to participate in this program must enroll in a minimum of five (5) morning classes at Moon Area High School each semester and show proof of enrollment in a college or technical school course. Participating seniors will be dismissed no earlier than 12:04 PM. No high school credit will be given for college or university course work. It is the student's responsibility to notify their guidance counselor of their withdrawal from any college courses or program. Completion of an application and course approval by the principal are required.

Students are permitted to participate in all co-curricular activities and athletics

APPLICATION DETAILS ARE LOCATED ON NEXT PAGE.

Graduation Requirements

A minimum of 24 credits, satisfactory completion of a senior project and proficiency on: PSSA Reading, Math and Writing Assessments, or local assessments, 75% or better achievement on state standards-correlated classroom assessment, or an approved Individualized IEP

4 – English	2 – Arts and Humanities
4 – Social Studies	2.5 – Health and Physical Education
3 – Science	1.0 – Technology Education
3 – Mathematics	4.5 – Electives

Student Commitment:

By completing this application I request permission to participate in next year's Dual Enrollment Early Release Program. I will be able to meet all graduation requirements.

Student Signature _____
Date

Parent Commitment: *(To be completed by the applicant's parent(s) or guardian(s).*

We have discussed the Dual Enrollment Early Release Program with our child and agree with his/her request.

Parent Signature _____
Date





Approval of this application allows seniors to enroll in college courses during their senior year

Student must meet the following eligibility requirements to apply for Dual Enrollment:

- Student must have completed a minimum of 20 credits and be currently scheduled to meet necessary Moon Area High School graduation requirements by the end of the current school year.
- ACT, SAT, and PSAT scores will be reviewed to meet the college requirements.
- Student's PSSA Reading, Math, and Writing assessments must be proficient or better
- The student must have earned a 2.5 QPA or better to enter the program.
- Student must schedule a minimum of five (5) Moon Area High School credits in the morning when scheduling for the next school year.
- Student may only enroll in courses that are not offered at Moon Area High School.
- Student must maintain a 2.0 grade point average in dual enrollment courses to remain in the program.

Counselor Recommendation:

_____ # credits anticipated at end of present semester.

Credits needed in each of the following academic areas:

_____ English Language Arts	_____ Arts and Humanities
_____ Social Studies	_____ Health & Physical Education
_____ Mathematics	_____ Technology
_____ Science	_____ Electives

Courses that will be taken to complete the above requirements:

_____	_____
_____	_____
_____	_____
_____	_____

A review of the present records indicates that graduation requirements can be completed during the applicant's senior year.

The application has been discussed with both the student and the parent/guardian.

I recommend approval of this request:

_____	_____
<i>Counselor's Signature</i>	<i>Date</i>

I recommend approval of this request:

_____	_____
<i>Principal's Signature</i>	<i>Date</i>





NOTES



