

SHALER AREA SCHOOL DISTRICT SHALER AREA HIGH SCHOOL

WE ARE SHALER AREA! WE ARE SHALER AREA!

WE ARE SHALER AREA! WE ARE SHALER AREA!



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COURSE DESCRIPTION BOOK 2024-2025

It is a policy of the Shaler Area School District to provide an equal opportunity for all children to achieve their maximum potential through the programs offered in our schools regardless of race, color, creed, religion, sex, sexual orientation, ancestry, national origin, handicap or disability.

Shaler Area School District

1800 Mt. Royal Boulevard, Glenshaw, PA 15116 • 412.492.1200 • www.sasd.k12.pa.us

Sean C. Aiken, Ed.D
Superintendent of Schools



Joseph M. Testa, Ed.D
Director of Student Services

Bryan E. O'Black, Ed.D
Deputy Superintendent of Schools

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Director of Business Affairs

January 2024

Dear Students & Parents,

This Course Description Book was formatted to include all the course offerings available to Shaler Area students enrolled in the secondary school grades 9-12. The purpose of including all course options in one document is to enable you to gain a conceptual understanding of the comprehensive program we offer to our secondary-aged students.

Separated by academic departments, this book describes the many courses available to you. The various descriptions indicate the credit value, how often the class meets, whether it is a college and career preparation, Honors or Advanced Placement course, and if any prerequisite requirements exist for enrollment in the course.

This book also includes pertinent information about how grades and grade point averages are calculated, as well as how we assist students with the mandated State testing in mathematics and reading.

Additionally, there will be opportunities for both parents and students to meet with counselors and principals as we move toward the completion of the student request for courses for the coming academic year. The school counselors will announce a schedule in the near future.

I hope you find this document informative and helpful as you and your family make plans for your academic future at Shaler Area. It is our hope and desire that our course offerings meet your academic needs and challenge you to be a well-educated and well-rounded individual.

Sincerely,

Sean C. Aiken, Ed.D
Superintendent of Schools

Shaler Area High School

381 Wible Run Road, Pittsburgh, PA 15209 • 412.492.1200 • www.sasd.k12.pa.us

Timothy J. Royall
Principal

JoAnne M. Townsend
Assistant Principal



Thomas M. Misko
Assistant Principal

Justin D. Eskra
Dean of Students

Dear Students and Parents:

Shaler Area High School is a comprehensive high school that offers a wide variety of courses. Please review the contents of this course description booklet before making course selections and give serious consideration to those choices.

It is suggested that you review the recommended curriculum patterns on pages 10 & 11. These patterns explain the various course requirements for grades nine through twelve. A worksheet has been provided on page 9 to assist you in planning your schedule. All students are required to register for seven periods, with the exception of students enrolled in A.W. Beattie Career Center.

The nine-period day gives all students the opportunity to reach out and pursue their interests in elective areas such as art, music, business & information technology, family consumer science, technology education and S.T.E.A.M.. As you select your courses, attention should be given to prerequisites, course requirements and course sequences. If you have any questions concerning a particular course, you are encouraged to discuss those concerns with the appropriate teacher or school counselor.

Several key Career Pathways (pp. 27-36) were designed to guide students in course selection during their high school years. Each pathway is aligned with the Pennsylvania Career Education and Work Standards, Chapter 4 of Title 22, so that students can gain a sense of those fields and the necessary skills needed for success. These Career Pathways are intended to push students beyond the typical criteria for acquiring a high school diploma.

Please do not hesitate to contact us with any question regarding your educational planning.

Sincerely,

Timothy J. Royall
Principal

JoAnne M. Townsend
Assistant Principal

Thomas M. Misko
Assistant Principal

**SHALER AREA HIGH SCHOOL
COURSE DESCRIPTION BOOK
2024-2025**

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GENERAL INFORMATION

The educational objectives of the Shaler Area School District are to offer a wide variety of required and elective courses so that each student may have the opportunity to develop an educational program adapted to his or her needs and interests. This guide is intended to serve the student in the course selection process, but it is only one of several sources of information. While each student is responsible for meeting his or her own graduation requirements, the help of counselors, teachers, and administrators should be sought in interpreting the requirements of various programs.

GENERAL SCHEDULING GUIDELINES

- A prerequisite is a course that **MUST** be taken before registering for a more advanced course. For example, the student must satisfactorily complete French 1 (70% or above) before signing up for French 2.
- The counselors will make every effort to schedule students for the electives that they choose. In the event that it is necessary to cancel a class or limit the number of sections, we are requiring all students to identify five alternate electives. Please note elective course requests cannot be guaranteed.
- Course changes will be made only for scheduling errors, academic misplacements, and scheduling conflicts.

COURSE WITHDRAWAL & GRADING PROCEDURE

- Students will obtain and complete a schedule change request form.
- The form must be completed and returned to the counselor prior to administrative review.
- The final decision may result in denying the request or approving the schedule change.

Timeline and consequences for courses dropped:

By the end of the first progress report period	Course will be dropped from the student schedule and removed completely from the student's transcript.
By the end of the first semester	Course will be dropped with a "W" transcript entry; the "W" will not be included in GPA calculation.
After the close of the first semester	Course will be dropped with an "F" transcript entry; the "F" will be included in GPA calculation.

(cont.)

COURSE WITHDRAWAL & GRADING PROCEDURE (cont.)

- If it is then deemed necessary to adjust the course level for a student, the grade will be moved into the receiving teacher's grading record for the new course. The student's attendance record is also transferred to the receiving teacher.
- Students who withdraw from a year-long course after the first semester, resulting in a failing grade, are not eligible for summer school remediation. Students must complete a yearlong course, in its entirety, to remain eligible.

GRADING SCALE

	Letter Grade	AP/CHS	Honors	Standard
100 - 97.50	A+	5.7375	4.9725	4.25
97.49 - 91.50	A	5.4	4.68	4
91.49 - 89.50	A-	5.0625	4.3875	3.75
89.49 - 87.50	B+	4.3875	3.8025	3.25
87.49 - 81.50	B	4.05	3.51	3
81.49 - 79.50	B-	3.7125	3.2175	2.75
79.49 - 77.50	C+	3.0375	2.6325	2.25
77.49 - 71.50	C	2.7	2.34	2
71.49 - 69.50	C-	2.3625	2.0475	1.75
69.49 - 59.50	D	1.35	1.17	1
59.49 - 0	F	0	0	0

(Reflects weights of 1.35 for AP/CHS and 1.17 for Honors)

MIDTERM & FINAL EXAMS

- Full Year Courses: Midterms and final exams are required for all full year courses in grades 9 through 12.
- Semester Courses: Final exams are required for all semester courses grades 9 through 12.

GRADE CALCULATIONS

- Our student information system will perform all Weighted Grade Point Average (WGPA) and Cumulative WGPA Calculations.
- Our student information system will calculate all final grades using the following formula:

Full Year Course (1.0 or 1.5 credit):

- Final Grade = $\frac{2}{10}$ (1st nine-week grade) + $\frac{2}{10}$ (2nd nine-week grade) + $\frac{1}{10}$ (midterm exam) + $\frac{2}{10}$ (3rd nine-week grade) + $\frac{2}{10}$ (4th nine-week grade) + $\frac{1}{10}$ (final exam grade)

Semester Course (.5 credit):

- Final Grade = $\frac{2}{5}$ (1st nine-week grade) + $\frac{2}{5}$ (2nd nine-week grade) + $\frac{1}{5}$ (final exam grade)

PROMOTION REQUIREMENTS

Grade 9 to 10 - A minimum of 6 credits
Grade 10 to 11 - A minimum of 12 credits
Grade 11 to 12 - A minimum of 18 credits

HONOR ROLL

Honor Roll is calculated each grading period based on weighted grade point average and is determined as follows:

1. Highest Honor – 4.00 or higher
2. High Honor – 3.75 to 3.99
3. Honor – 3.50 to 3.74

Any student who received a D, F or I on their report card is ineligible for Honor Roll.

WEIGHTED GRADE COURSES

AP and College in High School Level Courses

AP and College in High School level courses are the most demanding level of classes. They require extensive reading with multiple texts, research and various projects. There is an external assessment instrument and curriculum to follow. Placement in these courses will be contingent upon a specific screening process. In order to potentially earn college credit (refer to page 7), students are expected to take either the National AP exam or take the college course exams provided by the college or university.

AP Level Courses

AP Studio Art (Drawing)

AP 2-D Art & Design

AP English Language & Composition

AP English Literature & Composition

AP Calculus AB (Pitt)

AP Calculus BC (Pitt)

AP Computer Science A

AP Biology (Pitt)

AP Chemistry (Pitt)

AP Physics C (Pitt)

AP Economics

AP European History

AP United States History

AP Japanese Language

(cont.)

CHS Level Courses

CHS Accounting 3 (Carlow)	CHS Anatomy & Physiology (Carlow)
CHS Honors Business & Management (Carlow)	CHS Sustainability (Pitt)
CHS Computer Applications (La Roche)	CHS Introduction to World Politics (Pitt)
CHS Web Page Design (Pitt)	CHS Honors French 4 (Pitt)
CHS Advanced Preschool Lab (Carlow)	CHS Honors French 5 (Pitt)
CHS Business Calculus (Pitt)	CHS Honors Latin 4 (Pitt)
CHS Probabilities & Statistics (Pitt)	CHS Honors Latin 5 (Pitt)
CHS Computer Science Python (Pitt)	CHS Honors Spanish 4 (Pitt)
CHS Computer Science JAVA (Pitt)	CHS Honors Spanish 5 (Pitt)

College in High School (CHS) offers Shaler Area students the opportunity to earn both high school and college credit in courses taught right here in Shaler Area classrooms. The program provides students the chance to participate in rigorous college curriculum before they graduate high school, while helping students establish a college transcript for potential transfer. Students are not required to take the course for college credit unless they wish to do so.

Listed above are courses offered for CHS credit. Please note that each college or university requires their own registration and independent payment procedures. Please discuss these requirements with your school counselor prior to enrollment to ensure the course/credits meet criteria identified in a student's post-secondary plans.

Honors Level Courses

Honors level courses are more demanding than non-weighted college and career preparation courses. The requirements, as listed in the course descriptions, may include major research projects, multiple assessment instruments, and assignments that are more in-depth and detailed.

Honors Level Courses

Honors English 9	Honors Women's Chorus
Honors World Literature 10	Honors Biology
Honors American Literature 11	Honors Chemistry
Honors English Literature 12	Honors Organic Chemistry
Honors Geometry	Honors Physics
Honors Algebra 2	Honors American History
Honors Precalculus	Honors World Cultures
Honors Chamber Choir	Honors Civics & Government
Honors Jazz Ensemble I	Honors Economics
Honors Wind Ensemble	Honors Japanese 4

COMPUTING G.P.A. FOR A NINE WEEK GRADING PERIOD

Below are the Quality Points for $\frac{1}{2}$ credit (*semester*) and 1 credit (*full year*) courses for a nine-week grading period. To calculate, add the numeric value of each grade for each course and divide by the number of credits attempted. (These courses are worth .25 credits per nine-week period.)

VALUE FOR A ONE-CREDIT COURSE / 9 WEEK PERIOD

Grade Scale	Letter Grade	Regular (One Quarter)	Honors (One Quarter)	A.P. & C.H.S (One Quarter)
100-97.50	A+	1.0625	1.243125	1.434375
97.49-91.50	A	1.00	1.17	1.35
91.49-89.50	A-	0.9375	1.096875	1.265625
89.49-87.50	B+	0.8125	0.950625	1.096875
87.49-81.50	B	0.75	0.8775	1.0125
81.49-79.50	B-	0.6875	0.804375	0.928125
79.49-77.50	C+	0.5625	0.658125	0.759375
77.49-71.50	C	0.50	0.585	0.675
71.49-69.50	C-	0.4375	0.511875	0.590625
69.49-59.50	D	0.25	0.2925	0.3375
59.49-0.00	F	0.00	0.00	0.00

(Reflects weights of 1.17 for Honors and 1.35 for AP)

Below are the Quality Points for a 1 $\frac{1}{2}$ -credit full year course for a nine-week grading period. These courses include lab periods. (These courses are worth .375 credits per nine-week period.)

VALUE FOR A 1 $\frac{1}{2}$ CREDIT COURSE / 9 WEEK PERIOD

Grade Scale	Letter Grade	Regular (One Quarter)	Honors (One Quarter)	A.P. & C.H.S (One Quarter)
100-97.50	A+	1.59375	1.8646875	2.1515625
97.49-91.50	A	1.50	1.755	2.025
91.49-89.50	A-	1.40625	1.6453125	1.8984375
89.49-87.50	B+	1.21875	1.4259375	1.6453125
87.49-81.50	B	1.125	1.31625	1.51875
81.49-79.50	B-	1.03125	1.205625	1.3921875
79.49-77.50	C+	0.84375	0.9871875	1.1390625
77.49-71.50	C	0.75	0.8775	1.0125
71.49-69.50	C-	0.65625	0.7678125	0.8859375
69.49-59.50	D	0.375	0.43875	0.50625
59.49-0.00	F	0.00	0.00	0.00

(Reflects weights of 1.17 for Honors and 1.35 for AP)

ACADEMIC PLACEMENT

Course prerequisites are guidelines set for the purpose of placing students in the academic course with the appropriate level of individual academic rigor, as well as to ensure that students have the basic skills needed to be successful in upper-level courses. Numerous data points are reviewed to arrive at a decision for course placement, including sequential course completion, final grade average in a previous course, cumulative grade point average and/or Keystone Exam proficiency (or an equivalent criterion-based entrance exam). These data points reflect a strong academic foundation that is predictive of student success in advanced coursework.

- Successful completion of college and career preparation classes (i.e., Algebra 2) usually ensures placement in future college and career preparation level courses.
- A student who wishes to transition to higher level coursework (i.e., from a fundamentals course to a college and career prep course) must earn an average grade of an 89% or above at the end of the third 9-weeks, in the previous year's course. The same applies to a student wishing to transition into an Honors level course, he/she must earn an average grade of an 89% at the end of the third 9-weeks. For example, if a student is enrolled in World Literature 10 and wishes to register for Honors American Literature 11, he/she must earn an average grade of an 89% or above at the end of the third 9-weeks in World Literature 10.
- To remain in Honors or AP level coursework, students must earn at least an 80% average grade at the end of the third 9-weeks. For example, a student enrolled in Honors American Literature 11, who wishes to schedule for Honors English Literature 12, must earn an average grade of 80% or above at the end of the third 9-weeks in Honors American Literature 11.
- 9th Grade Honors: For initial placement into the 9th grade Honors Program, the student must earn an average grade of an 89% or above in the respective academic area.
- All incoming 9th grade students must score Proficient or higher on the Keystone Algebra 1 or Shaler Area High School Algebra Proficiency Exam for placement in courses beyond Algebra 1.

For appropriate recommendation, it is advised that students and parents consult with their current academic teacher and their assigned school counselor.

ENROLLMENT IN ADVANCED PLACEMENT COURSES

The following is the criteria for students to be scheduled into Advanced Placement courses. A.P. courses are the most rigorous classes the school has to offer. They are very demanding and require a large commitment from the student. Students must meet the criteria with a minimum score of 7 on an 8.5 scale. It is important to note that all students enrolled in A.P. courses are encouraged to take the A.P. examination at the end of the course.

1. Weighted QPA on cumulative record:

4.00	-	4.00+	=	4.0 pts.
3.50	-	3.99	=	3.5 pts.
3.00	-	3.49	=	3.0 pts.
2.50	-	2.99	=	2.5 pts.
2.00	-	2.49	=	2.0 pts.

2. Grade from Honors/A.P. level prerequisite course for consideration:

97.50	-	100.00	=	A+	4.5 pts.
91.50	-	97.49	=	A	4.0 pts.
89.50	-	91.49	=	A-	3.5 pts.
87.50	-	89.49	=	B+	3.0 pts.
81.50	-	87.49	=	B	2.5 pts.
79.50	-	81.49	=	B-	2.0 pts.

3. Score Proficient on the Keystone exam

For more information on A.P. courses, test dates, potential to earn college credit and cost, please visit the College Board website at www.collegeboard.org.

KEYSTONE EXAM/GRADUATION PATHWAY REQUIREMENTS

The Keystone Exams are end-of-course assessments designed to evaluate proficiency in academic content. The Keystone Exams are one component of Pennsylvania's high school graduation requirements. Students must demonstrate proficiency on the Algebra 1, Literature, and Biology Keystone Exams to graduate.

If a student does not achieve advanced or proficient scores, the Pennsylvania Department of Education has recommended students be provided supplemental instruction and be required to participate in retesting during subsequent testing windows until advanced or proficient scores are achieved.

If a student does not earn a proficient score for each of the Keystone Exams (Algebra 1, Biology and Literature) prior to the conclusion of Junior Year, he or she must complete this *Graduation Requirement* via an alternate Graduation Pathway in addition to the 25 Shaler Area High School Credits that must be earned.

PENNSYLVANIA CITIZENSHIP TEST

Act 35 of 2018 requires the administering of a citizenship test to students in grades 7 through 12. The one-time assessment, typically administered during Civics & Government, will test each student's understanding of the nature, purpose, and principles of the United States constitutional democracy and the responsibilities and rights of United States citizenship. Students who score a perfect on the assessment will qualify for a certificate developed by the Pennsylvania Department of Education.

INFORMATION FOR THE STUDENT ATHLETE INITIAL ELIGIBILITY FOR NCAA DIVISION I AND II

www.eligibilitycenter.org

When scheduling, students should access the NCAA website to determine whether the courses they are requesting meet requirements from the list of approved core courses.

Students should register for the NCAA no sooner than the end of their junior year.

When registering for college admission testing, both SAT and ACT, it is important that students send their scores directly to the Eligibility Center utilizing code #9999.

The above site contains information on all aspects of academic eligibility for student athletes who may have the opportunity to participate in sports at a college or university that has Division I or Division II athletic programs. These programs have requirements for which student-athletes must qualify, in addition to the standard admissions requirements.

See your assigned counselor if you need help with any of this information.

**STUDENT WORKSHEET
FOR GRADUATION REQUIREMENTS
2024-2025**

STUDENT NAME _____ CLASS OF _____

Enter courses and credits to be scheduled in the correct location

Credits for graduation		9 th grade	10 th grade	11 th grade	12 th grade
English Language Arts	4.0				
Social Studies	4.0				
Math*	3.0 (minimum)				
Science*	3.0 (minimum)				
Physical Education	2.0 (4 units)	PE 0.5			
Health	1.0 (2 units)				
Electives ✓ Freshman Forum 0.5 ✓ World Language*	8.0 (minimum)	Freshman Forum 0.5		Health 2 0.5	
Total Credits for Graduation (Minimum)	25.0				
Minimum earned credits to be promoted to the next grade level:		6.0	12.0	18.0	25
Pennsylvania Department of Education KEYSTONE EXAM requirements					

* If pursuing a post-secondary education, students should schedule 4.0 credits in Math, 4.0 in science and 2.0 – 4.0 credits in World Languages. World Language is not a graduation requirement.

Students should see their counselor to make appropriate course selections to meet graduation requirements.

RECOMMENDED PATTERNS FOR ALL CURRICULA

Freshman Schedule

English	-----	1.0
Social Studies	-----	1.0
Math	-----	1.0
Science	-----	1.0 -1.5
Physical Ed. 9	Students must register for Health 1 in 9 th or 10 th grade ----	.5-1.0
Freshman Forum	Required by all 9 th graders-----	.5
World Languages*	-----	0.0-1.0
Elective(s)**	-----	1.0-2.0
	Total Credits	7.0-8.0

Sophomore Schedule

English	-----	1.0
Social Studies	-----	1.0
Math	-----	1.0
Science	-----	1.0-1.5
Physical Ed. 10	Students must register for Health 1 in 9 th or 10 th grade ----	.5-1.0
World Languages*	-----	0.0-1.0
Elective(s)**	-----	1.0-3.0
	Total Credits	7.0-8.0

Junior Schedule

English	-----	1.0
Social Studies	-----	1.0
Math*	-----	0.0-1.0
Science*	-----	0.0-1.5
Physical Ed. 11	Students must register for Health 2 in 11 th grade ---	.5-1.0
World Languages*	-----	0.0-1.0
Elective(s)**	-----	1.0-3.0
	Total Credits	7.0-8.0

Senior Schedule

English	-----	1.0
Social Studies	-----	1.0
Math*	-----	0.0-1.0
Science*	-----	0.0-1.5
Physical Ed. 12	-----	.5
World Languages*	-----	0.0-1.0
Elective(s)**	-----	3.5-5.5
	Total Credits	6.0-8.0

Additional Notes

Freshman Forum (#0900)

Freshman Forum is a course designed to support the transition of 9th graders to the high school setting and expectations. There are a number of academic and social challenges that students encounter, and this course is designed to prepare students to make informed decisions that will maximize their success. Class discussions and activities are intended to expose students to a variety of strategies to promote their academic achievement regardless of subject. Areas of specific emphasis will include units on high school expectations, study skills, public speaking, conflict resolution and career exploration.

STEAM Freshman Forum (#0901)

Prerequisites: **Concurrent enrollment in Honors Biology
& Honors Geometry or higher**

STEAM Freshman Forum is a course designed to support the transition of 9th graders to the high school setting and expectations. This course is specifically designed to introduce students to career opportunities in Science, Technology, Engineering, Art, and Mathematics. Students will experience various project-based activities that may include designing, engineering, programming, laboratory techniques, and product marketing and management. Class discussions and activities are intended to expose students to a variety of strategies to promote their academic achievement as well as provide an orientation to the high school. Other areas of study will include public speaking, career exploration, psychology of learning, and use of technology. This course will also afford students the opportunity to interact with professionals in various STEAM related fields.

9TH GRADE COURSES

*Indicates a semester course for 1/2 credit. All other courses meet for the full year for 1 credit with the exception of lab sciences which are 1-1/2 credits.

ENGLISH LANGUAGE ARTS

___	0065	HONORS ENGLISH 9
___	0070	ENGLISH 9
___	*0370	CREATIVE WRITING WORK. 1
___	*0375	CREATIVE WRITING WORK. 2
___	*0400	DRAMA/THEATER ARTS 1
___	*0405	DRAMA/THEATER ARTS 2
___	*0360	JOURNALISM
___	0359	YEARBOOK

MATH

___	2005	ALGEBRA 1
___	2065	GEOMETRY
___	2060	HONORS GEOMETRY
___	2025	ALGEBRA 2
___	2030	HONORS ALGEBRA 2
___	*2110	COMPUTER SCIENCE-PYTHON
___	*2115	HONORS COMPUTER SCIENCE-PYTHON (PITT)
___	*2120	COMPUTER SCIENCE-JAVA
___	*2125	HONORS COMP. SCIENCE JAVA (PITT)

PHYSICAL EDUCATION & HEALTH

___	*7000	PHYS. ED. 9
___	*7080	ADAPTIVE PHYS. ED.
___	*7100	HEALTH 1

SCIENCE

___	3000	EARTH/SPACE SCIENCE
___	3015	HONORS BIOLOGY (1-1/2)

SOCIAL STUDIES

___	1060	HONORS AMER. HISTORY
___	1065	AMERICAN HISTORY
___	*1220	CURRENT EVENTS 1
___	*1225	CURRENT EVENTS 2
___	*1290	GEOGRAPHY
___	*1165	A HISTORY OF WESTERN PA
___	*1150	MULTICULTURAL STUDIES
___	*1155	THE HOLOCAUST
___	*1205	TRIAL LAW

ART

___	*8005	PRINCIPLES OF STUDIO ART
___	*8006	DRAWING
___	*8030	ANIME & ILLUSTRATION
___	*8040	CERAMICS 1
___	*8045	CERAMICS 2
___	8050	CERAMICS 1 & 2
___	*8130	CRAFTS & SCULPTURE 1
___	*8140	CRAFTS & SCULPTURE 2
___	8150	CRAFTS & SCULPTURE 1 & 2
___	*8095	JEWELRY 1
___	*8100	JEWELRY 2
___	8105	JEWELRY 1&2
___	*8080	DIGITAL ARTS 1
___	*8085	DIGITAL ARTS 2
___	8090	DIGITAL ARTS 1 & 2

BUSINESS INFORMATION TECHNOLOGY ED.

___	*5130	FOUNDATIONS OF BUSINESS & MANAGEMENT
___	*5115	MARKETING & ADVERTISING
___	*5000	ACCOUNTING 1
___	*5005	ACCOUNTING 2
___	*5100	MICROSOFT OFFICE APPL. 1
___	*5101	MICROSOFT OFFICE APPL. 2
___	5102	MICROSOFT OFFICE APPL. 1 & 2
___	*5145	WEB PAGE DESIGN
___	*5155	MOBILE APPLICATIONS TECH.

FAMILY & CONSUMER SCIENCE

___	*6046	FOODS
___	*6047	QUICK PREP FOODS
___	*6035	TEEN LIVING
___	*6056	INTERIOR DESIGN STUDIO
___	*6100	CREATIVE SEWING LAB 1
___	*6105	CREATIVE SEWING LAB 2
___	*6110	APPAREL MANUFACTURING
___	*6120	FASHION
___	*6000	CHILD DEVELOPMENT

MUSIC

___	8510	TREBLE CHORUS
___	8500	CONCERT CHOIR
___	8505	HONORS CHAMBER CHOIR
___	8535	HONORS WOMEN'S CHORUS
___	8600	JAZZ ENSEMBLE II
___	8610	HONORS JAZZ ENSEMBLE I
___	8620	SYMPHONIC BAND
___	8650	HONORS WIND ENSEMBLE
___	8635	CONCERT ORCHESTRA
___	*8660	PIANO LAB 1
___	*8665	PIANO LAB 2
___	*8545	PERCUSSION ENSEMBLE
___	*8540	MUSIC THEORY

TECHNOLOGY EDUCATION

___	*9050	WOOD TECHNOLOGY 1
___	*9060	WOOD TECHNOLOGY 2
___	9070	WOOD TECHNOLOGY 1&2
___	*9090	METAL TECHNOLOGY 1
___	*9100	METAL TECHNOLOGY 2
___	9101	METAL TECHNOLOGY 1 & 2
___	*9040	ROBOTICS/ELECTRONICS 1
___	*9045	ROBOTICS/ELECTRONICS 2
___	9046	ROBOTICS/ELECTRONICS 1 & 2
___	*9110	ENGINEERING DESIGN/CAD 1
___	*9115	ENGINEERING DESIGN/CAD 2
___	9125	ENG. DESIGN/CAD 1 & 2
___	*9150	VISUAL COMMUNICAT. 1
___	*9160	VISUAL COMMUNICAT. 2
___	9165	VISUAL COMM. 1 & 2
___	*9190	VIDEO PRODUCTION 1
___	*9191	VIDEO PRODUCTION 2
___	9192	VIDEO PRODUCTION 1 & 2
___	*9185	DIGITAL PHOTOGRAPHY 1
___	*9186	DIGITAL PHOTOGRAPHY 2
___	9187	DIGITAL PHOTO. 1 & 2

WORLD & CLASSICAL LANGUAGES

___	4010	FRENCH 1
___	4015	FRENCH 2
___	4110	JAPANESE 1
___	4115	JAPANESE 2
___	4135	LATIN 1
___	4140	LATIN 2
___	4080	SPANISH 1
___	4085	SPANISH 2

ALTERNATE ELECTIVES

#	_____	_____
#	_____	_____
#	_____	_____
#	_____	_____

**9th GRADE COURSE SELECTION WORKSHEET
2024-2025**

STUDENT NAME _____ **HOMEROOM SECTION** _____

All courses available to Grade 9 students are listed on the previous page.
All students are required to take Freshman Forum and a Physical Education class.

Subject Area	Course Title	Course Number	Credits
Lunch	Lunch	7901 & 7902	0.0
English			
Social Studies			
Math			
Science			
Freshman Forum <u>or</u> STEAM Freshman Forum Physical Education	Freshman Forum <u>or</u> STEAM Freshman Forum Physical Education 9	0900 0901 7000	0.5 0.5 0.5
World Language or Electives			
Electives			
Electives			
Electives			

As of _____, I am currently planning to pursue _____
Today's Date Career Pathway
 following graduation from high school.

10TH GRADE COURSES

*Indicates a semester course for 1/2 credit. All other courses meet for the full year for 1 credit with the exception of lab sciences which are 1-1/2 credits.

ENGLISH LANGUAGE ARTS

0050	HONORS WORLD LIT. 10
0055	WORLD LIT. 10
*0370	CREATIVE WRITING WORK. 1
*0375	CREATIVE WRITING WORK. 2
*0400	DRAMA/THEATER ARTS 1
*0405	DRAMA/THEATER ARTS 2
*0360	JOURNALISM
0365	ADV. JOURNALISM/NEWSPAPER
*0380	PEOPLE SKILLS
*0385	THE LANGUAGE OF ACTIVISM
0359	YEARBOOK

MATH

2005	ALGEBRA 1
2070	GEOMETRY FUNDAMENTALS
2065	GEOMETRY
2060	HONORS GEOMETRY
2025	ALGEBRA 2
2030	HONORS ALGEBRA 2
2080	PRECALCULUS
2085	HONORS PRECALCULUS
2145	HONORS PROB. & STATISTICS (PITT)
*2110	COMPUTER SCIENCE-PYTHON
*2115	HONORS COMPUTER SCIENCE-PYTHON (PITT)
*2120	COMPUTER SCIENCE-JAVA
*2125	HONORS COMPUTER SCIENCE JAVA (PITT)
2130	AP COMPUTER SCIENCE A

PHYSICAL EDUCATION & HEALTH

*7010	LIFETIME ACTIVITIES
*7015	TEAM SPORTS
*7020	SPORTS PERFORMANCE
*7030	AEROBIC FITNESS & DANCE
*7040	PRIN. OF WGT. TRAIN. & FITNESS
*7100	HEALTH 1
*7080	ADAPTIVE PHYS ED

SCIENCE

3015	HONORS BIOLOGY (1-1/2)
3020	BIOLOGY (1-1/2)
3025	CONCEPTUAL BIOLOGY
3040	HONORS CHEM. (1-1/2)
3045	CHEMISTRY (1-1/2)
3115	SUSTAINABILITY (PITT)

SOCIAL STUDIES

1045	HONORS WORLD CULTURES
1050	WORLD CULTURES
1005	AP EUROPEAN HISTORY
1295	INTRO TO WORLD POLITICS (PITT)
*1220	CURRENT EVENTS 1
*1225	CURRENT EVENTS 2
*1290	GEOGRAPHY
*1165	A HISTORY OF WESTERN PA
*1155	THE HOLOCAUST
*1150	MULTICULTURAL STUDIES
*1280	PRINCIPLES OF PSYCHOLOGY
*1210	ADVANCED TOPICS IN PSYCHOLOGY
*1285	SOCIOLOGY
*1205	TRIAL LAW

ART

*8005	PRINCIPLES OF STUDIO ART
*8006	DRAWING
8010	STUDIO ART 2
*8030	ANIME & ILLUSTRATION
*8040	CERAMICS 1
*8045	CERAMICS 2
8050	CERAMICS 1 & 2
*8054	CERAMICS 3
*8056	CERAMICS 4
8058	CERAMICS 3 & 4
*8130	CRAFTS & SCULPTURE 1
*8140	CRAFTS & SCULPTURE 2
8150	CRAFTS & SCULPTURE 1 & 2
*8095	JEWELRY 1
*8100	JEWELRY 2
8105	JEWELRY 1&2
*8115	JEWELRY 3
*8120	JEWELRY 4
8125	JEWELRY 3 & 4
*8080	DIGITAL ARTS 1
*8085	DIGITAL ARTS 2
8090	DIGITAL ARTS 1 & 2

BUSINESS INFORMATION TECHNOLOGY ED.

*5130	FOUNDATIONS OF BUSINESS & MANAGEMENT
*5020	HON. BUSINESS & MANAGEMENT (CARLOW)
*5140	SMALL BUSINESS MANAGEMENT
*5115	MARKETING & ADVERTISING
*5110	PERSONAL FINANCE
*5000	ACCOUNTING 1
*5005	ACCOUNTING 2
*5010	HON. ACCOUNTING 3 (CARLOW)
*5100	MICROSOFT OFFICE APPL. 1
*5101	MICROSOFT OFFICE APPL. 2
5102	MICROSOFT OFFICE APPL. 1 & 2
*5103	HON.MICROSOFT OFFICE APPL. 3 (LAROUCHE)
*5145	WEB PAGE DESIGN
*5148	HON. WEB PAGE DESIGN (PITT)
*5155	MOBILE APPLICATIONS TECH.

FAMILY & CONSUMER SCIENCE

*6046	FOODS
*6047	QUICK PREP FOODS
*6048	INTERNATIONAL FOODS
*6049	GOURMET FOODS
*6050	TITAN CAFÉ
*6035	TEEN LIVING
*6056	INTERIOR DESIGN STUDIO
*6100	CREATIVE SEWING LAB 1
*6105	CREATIVE SEWING LAB 2
*6110	APPAREL MANUFACTURING
*6120	FASHION
*6000	CHILD DEVELOPMENT
*6005	PRESCHOOL LAB 1

MUSIC

8500	CONCERT CHOIR
8505	HONORS CHAMBER CHOIR
8535	HONORS WOMEN'S CHORUS
8600	JAZZ ENSEMBLE II
8610	HONORS JAZZ ENSEMBLE I
8620	SYMPHONIC BAND
8650	HONORS WIND ENSEMBLE
8630	CHAMBER ORCHESTRA
8635	CONCERT ORCHESTRA
*8660	PIANO LAB 1
*8665	PIANO LAB 2
*8545	PERCUSSION ENSEMBLE
*8540	MUSIC THEORY

TECHNOLOGY EDUCATION

*9050	WOOD TECHNOLOGY 1
*9060	WOOD TECHNOLOGY 2
9070	WOOD TECHNOLOGY 1&2
*9075	WOOD TECHNOLOGY 3
*9080	WOOD TECHNOLOGY 4
9085	WOOD TECHNOLOGY 3 & 4
*9090	METAL TECHNOLOGY 1
*9100	METAL TECHNOLOGY 2
9101	METAL TECHNOLOGY 1 & 2
*9102	METAL TECHNOLOGY 3
*9103	METAL TECHNOLOGY 4
9104	METAL TECHNOLOGY 3 & 4
*9040	ROBOTICS/ELECTRONICS 1
*9045	ROBOTICS/ELECTRONICS 2
9046	ROBOTICS/ELECTRONICS 1 & 2
*9047	ROBOTICS 3/AUTOMATION
*9048	ROBOTICS 4/AUTOMATION
9049	ROBOTICS 3 & 4/AUTOMAT.
*9110	ENGINEERING DESIGN/CAD 1
*9115	ENGINEERING DESIGN/CAD 2.
9125	ENG. DESIGN/CAD 1 & 2
*9130	ENGINEERING DESIGN/CAD 3
*9135	ENGINEERING DESIGN/CAD 4
9140	ENG. DESIGN/CAD 3 & 4
*9150	VISUAL COMMUNICAT. 1
*9160	VISUAL COMMUNICAT. 2
9165	VISUAL COMM. 1 & 2
*9170	VISUAL COMMUNICAT. 3
*9175	VISUAL COMMUNICAT. 4
9180	VISUAL COMM. 3 & 4
*9190	VIDEO PRODUCTION 1
*9191	VIDEO PRODUCTION 2
9192	VIDEO PRODUCTION 1 & 2
9195	TV PRODUCTION 1
*9185	DIGITAL PHOTOGRAPHY 1
*9186	DIGITAL PHOTOGRAPHY 2
9187	DIGITAL PHOTOGRAPHY 1 & 2

WORLD & CLASSICAL LANGUAGES

4010	FRENCH 1
4015	FRENCH 2
4020	FRENCH 3
4110	JAPANESE 1
4115	JAPANESE 2
4120	JAPANESE 3
4135	LATIN 1
4140	LATIN 2
4145	LATIN 3
4080	SPANISH 1
4085	SPANISH 2
4090	SPANISH 3

PROGRAM CHOICE

0911	ESSENTIALS OF FIREFIGHTING @ ALLEGHENY COUNTY FIRE ACADEMY
5944	BEATTIE TECH AM (Cosmo only)
5945	BEATTIE TECH PM (Cosmo only)

ALTERNATE ELECTIVES

#	_____
#	_____
#	_____
#	_____
#	_____

10th GRADE COURSE SELECTION WORKSHEET 2024-2025

STUDENT NAME _____ HOMEROOM SECTION _____

All courses available to Grade 10 students are listed on the previous page.

Subject Area	Course Title	Course Number	Credits
Lunch	Lunch	7901 & 7902	0.0
English			
Social Studies			
Math			
Science			
Health	Health 1	7100	.5
Physical Education (Enter 2 nd Choice as an Alternate)	PE 1 st Choice: PE 2 nd Choice:	PE 1 st Choice Course#: PE 2 nd Choice Course#:	
World Language or Electives			
Electives			
Electives			
Electives			

PROGRAM CHOICE: Fire Academy Beattie Tech (Cosmo only)

As of _____, I am currently planning to pursue _____
Today's Date Career Pathway

following graduation from high school.

11TH GRADE COURSES

*Indicates a semester course for 1/2 credit. All other courses meet for the full year for 1 credit with the exception of lab sciences which are 1-1/2 credits.

ENGLISH LANGUAGE ARTS

0035	HONORS AMER. LITERATURE 11
0040	AMERICAN LITERATURE 11
0010	AP ENG. LANGUAGE & COMP.
*0370	CREAT. WRIT. WORKSHOP 1
*0375	CREAT. WRIT. WORKSHOP 2
*0400	DRAMA/THEATER ARTS 1
*0405	DRAMA/THEATER ARTS 2
*0360	JOURNALISM
*0365	ADV. JOURNALISM/NEWSPAPER
*0380	PEOPLE SKILLS
*0385	THE LANGUAGE OF ACTIVISM
0359	YEARBOOK

MATH

2070	GEOMETRY FUNDAMENTALS
2065	GEOMETRY
2020	ALGEBRA 2 FUNDAMENTALS
2025	ALGEBRA 2
2030	HONORS ALGEBRA 2
2075	ALGEBRA 3
2080	PRECALCULUS
2085	HONORS PRECALCULUS
2090	BUSINESS CALCULUS (PITT)
2100	AP CALCULUS AB (PITT)
2145	HON. PROB. & STATISTICS (PITT)
*2110	COMPUTER SCIENCE-PYTHON
*2115	HONORS COMPUTER SCIENCE-PYTHON (PITT)
*2120	COMPUTER SCIENCE-JAVA
*2125	HONORS COMPUTER SCIENCE JAVA (PITT)
2130	AP COMPUTER SCIENCE A

PHYSICAL EDUCATION & HEALTH

*7010	LIFETIME ACTIVITIES
*7015	TEAM SPORTS
*7020	SPORTS PERFORMANCE
*7030	AEROBIC FITNESS & DANCE
*7040	PRIN. OF WGT. TRAIN. & FITNESS
*7200	HEALTH 2
*7065	FIRST RESPONDER
*7080	ADAPTIVE PHYSICAL ED

SCIENCE

3010	AP BIOLOGY (1-1/2) (PITT)
3030	COMPARATIVE LIFE SCIENCE
3035	AP CHEMISTRY (1-1/2) (PITT)
3040	HONORS CHEM. (1-1/2)
3045	CHEMISTRY (1-1/2)
3055	HONORS ORGANIC CHEM. (1-1/2)
3050	CONCEPTUAL CHEMISTRY
3075	HONORS PHYSICS (1-1/2)
3080	PHYSICS (1-1/2)
3085	CONCEPTUAL PHYSICS
*3105	FORENSIC SCIENCE
*3095	NUCLEAR ASTRONOMY
3115	SUSTAINABILITY (PITT)

SOCIAL STUDIES

1030	HONORS CIVICS & GOVERNMENT
1035	CIVICS & GOVERNMENT
1010	AP ECONOMICS
1005	AP EUROPEAN HISTORY
1000	AP UNITED STATES HISTORY
1295	INTRO TO WORLD POLITICS (PITT)
*1220	CURRENT EVENTS 1
*1225	CURRENT EVENTS 2
*1290	GEOGRAPHY
*1165	A HISTORY OF WESTERN PA
*1155	THE HOLOCAUST
*1215	MODERN GLOBAL CONFLICTS
*1150	MULTICULTURAL STUDIES
*1280	PRINCIPLES OF PSYCHOLOGY
*1210	ADVANCED TOPICS IN PSYCHOLOGY
*1285	SOCIOLOGY
*1205	TRIAL LAW

ART

*8005	PRINCIPLES OF STUDIO ART
*8006	DRAWING
8010	STUDIO ART 2
8015	STUDIO ART 3
8020	AP STUDIO ART (Drawing)
8017	AP 2-D ART & DESIGN
*8030	ANIME & ILLUSTRATION
*8040	CERAMICS 1
*8045	CERAMICS 2
8050	CERAMICS 1 & 2
*8054	CERAMICS 3
*8056	CERAMICS 4
8058	CERAMICS 3 & 4
*8130	CRAFTS & SCULPTURE 1
*8140	CRAFTS & SCULPTURE 2
8150	CRAFTS & SCULPTURE 1 & 2
*8095	JEWELRY 1
*8100	JEWELRY 2
8105	JEWELRY 1&2
*8115	JEWELRY 3
*8120	JEWELRY 4
8125	JEWELRY 3 & 4
*8080	DIGITAL ARTS 1
*8085	DIGITAL ARTS 2
8090	DIGITAL ARTS 1 & 2

BUSINESS INFORMATION TECHNOLOGY ED.

*5130	FOUNDATIONS OF BUSINESS & MANAGEMENT
*5020	HON. BUSINESS & MANAGEMENT (CARLOW)
*5140	SMALL BUSINESS MANAGEMENT
*5115	MARKETING & ADVERTISING
*5110	PERSONAL FINANCE.
*5000	ACCOUNTING 1
*5005	ACCOUNTING 2
*5010	HON. ACCOUNTING 3 (CARLOW)
*5100	MICROSOFT OFFICE APPL. 1
*5101	MICROSOFT OFFICE APPL. 2
5102	MICROSOFT OFFICE APPL. 1 & 2
*5103	HON.MICROSOFT OFFICE APPL. 3 (LAROCHE)
*5145	WEB PAGE DESIGN
*5148	HON. WEB PAGE DESIGN (PITT)
*5155	MOBILE APPLICATIONS TECH.

FAMILY & CONSUMER SCIENCE

*6046	FOODS
*6047	QUICK PREP FOODS
*6048	INTERNATIONAL FOODS
*6049	GOURMET FOODS
*6050	TITAN CAFÉ
*6040	THE REAL WORLD
*6056	INTERIOR DESIGN STUDIO
*6100	CREATIVE SEWING LAB 1
*6105	CREATIVE SEWING LAB 2
*6110	APPAREL MANUFACTURING
*6120	FASHION
*6000	CHILD DEVELOPMENT
*6005	PRESCHOOL LAB 1
*6010	PRESCHOOL LAB 2
*6015	ADV. PRESCHOOL LAB (CARLOW)

MUSIC

8500	CONCERT CHOIR
8505	HONORS CHAMBER CHOIR
8535	HONORS WOMEN'S CHORUS
8600	JAZZ ENSEMBLE II
8610	HONORS JAZZ ENSEMBLE I
8620	SYMPHONIC BAND
8650	HONORS WIND ENSEMBLE
8630	CHAMBER ORCHESTRA
8635	CONCERT ORCHESTRA
*8660	PIANO LAB 1
*8665	PIANO LAB 2
*8545	PERCUSSION ENSEMBLE
*8540	MUSIC THEORY

TECHNOLOGY EDUCATION

*9050	WOOD TECHNOLOGY 1
*9060	WOOD TECHNOLOGY 2
9070	WOOD TECHNOLOGY 1&2
*9075	WOOD TECHNOLOGY 3
*9080	WOOD TECHNOLOGY 4
9085	WOOD TECHNOLOGY 3 & 4
9198	CABINTRY 1
*9090	METAL TECHNOLOGY 1
*9100	METAL TECHNOLOGY 2
9101	METAL TECHNOLOGY 1 & 2
*9102	METAL TECHNOLOGY 3
*9103	METAL TECHNOLOGY 4
9104	METAL TECHNOLOGY 3 & 4
9105	METAL FABRICATION 1
*9040	ROBOTICS/ELECTRONICS 1
*9045	ROBOTICS/ELECTRONICS 2
9046	ROBOTICS/ELECTRONICS 1 & 2
*9047	ROBOTICS 3/AUTOMATION
*9048	ROBOTICS 4/AUTOMATION
9049	ROBOTICS 3 & 4/AUTOMAT.
*9110	ENGINEERING DESIGN/CAD 1
*9115	ENGINEERING DESIGN/CAD 2
9125	ENG. DESIGN/CAD 1 & 2
*9130	ENGINEERING DESIGN/CAD 3
*9135	ENGINEERING DESIGN/CAD 4
9140	ENG. DESIGN/CAD 3 & 4
*9150	VISUAL COMMUNICAT. 1
*9160	VISUAL COMMUNICAT. 2
9165	VISUAL COMM. 1 & 2
*9170	VISUAL COMMUNICAT. 3
*9175	VISUAL COMMUNICAT. 4
9180	VISUAL COMM. 3 & 4
*9190	VIDEO PRODUCTION 1
*9191	VIDEO PRODUCTION 2
9192	VIDEO PRODUCTION 1 & 2
9195	TV PRODUCTION 1
9196	TV PRODUCTION 2
*9185	DIGITAL PHOTOGRAPHY 1
*9186	DIGITAL PHOTOGRAPHY 2
9187	DIGITAL PHOTOGRAPHY 1 & 2

WORLD & CLASSICAL LANGUAGES

4010	FRENCH 1
4015	FRENCH 2
4020	FRENCH 3
4025	HONORS FRENCH 4 (PITT)
4110	JAPANESE 1
4115	JAPANESE 2
4120	JAPANESE 3
4125	HONORS JAPANESE 4
4135	LATIN 1
4140	LATIN 2
4145	LATIN 3
4150	HONORS LATIN 4 (PITT)
4080	SPANISH 1
4085	SPANISH 2
4090	SPANISH 3
4095	HONORS SPANISH 4 (PITT)

PROGRAM CHOICE

5944	BEATTIE TECH AM
5945	BEATTIE TECH PM
0911	ESSENTIALS OF FIREFIGHTING @ ALLEGHENY COUNTY FIRE ACADEMY
XXXX	CCBC DUAL ENROLLMENT

ALTERNATE ELECTIVES

#	_____
#	_____
#	_____
#	_____
#	_____

11th GRADE COURSE SELECTION WORKSHEET 2024-2025

STUDENT NAME _____ HOMEROOM SECTION _____

All courses available to Grade 11 students are listed on the previous page.

Subject Area	Course Title	Course Number	Credits
Lunch	Lunch	7901 & 7902	0.0
English			
Social Studies			
Math			
Science			
Health	Health 2	7200	.5
Physical Education (Enter 2 nd Choice as an Alternate)	PE 1 st Choice: PE 2 nd Choice:	PE 1 st Choice Course#: PE 2 nd Choice Course#:	
World Language or Electives			
Electives			
Electives			
Electives			

PROGRAM CHOICE: Beattie Tech Career Concentration : _____
 CCBC
 Fire Academy

As of _____, I am currently planning to pursue _____
Today's Date Career Pathway
 following graduation from high school.

12TH GRADE COURSES

*Indicates a semester course for 1/2 credit. All other courses meet for the full year for 1 credit with the exception of lab sciences which are 1-1/2 credits.

ENGLISH LANGUAGE ARTS

0020	HONORS ENG. LITERATURE 12
0025	ENGLISH LITERATURE 12
0030	PRACTICAL CAREER ENG.
0015	AP ENG. LITERATURE & COMP.
*0370	CREAT. WRIT. WORKSHOP 1
*0375	CREAT. WRIT. WORKSHOP 2
*0400	DRAMA/THEATER ARTS 1
*0405	DRAMA/THEATER ARTS 2
*0360	JOURNALISM
0365	ADV. JOURNALISM/NEWSPAPER
*0380	PEOPLE SKILLS
*0385	THE LANGUAGE OF ACTIVISM
0359	YEARBOOK

MATH

2070	GEOMETRY FUNDAMENTALS
2020	ALGEBRA 2 FUNDAMENTALS
2025	ALGEBRA 2
2075	ALGEBRA 3
2080	PRECALCULUS
2085	HONORS PRECALCULUS
2090	BUSINESS CALCULUS (PITT)
2100	AP CALCULUS AB (PITT)
2105	AP CALCULUS BC (PITT)
2145	HON. PROB. & STATISTICS (PITT)
*2110	COMPUTER SCIENCE-PYTHON
*2115	HONORS COMPUTER SCIENCE-PYTHON (PITT)
*2120	COMPUTER SCIENCE-JAVA
*2125	HONORS COMPUTER SCIENCE-JAVA (PITT)
2130	AP COMPUTER SCIENCE A

PHYSICAL EDUCATION & HEALTH

*7010	LIFETIME ACTIVITIES
*7015	TEAM SPORTS
*7020	SPORTS PERFORMANCE
*7030	AEROBIC FITNESS & DANCE
*7040	PRIN. OF WGT. TRAIN. & FITNESS
*7065	FIRST RESPONDER
*7080	ADAPTIVE PHYSICAL ED

SCIENCE

3010	AP BIOLOGY (1-1/2) (PITT)
3030	COMPARATIVE LIFE SCIENCE
3035	AP CHEMISTRY (1-1/2) (PITT)
3040	HONORS CHEM. (1-1/2)
3045	CHEMISTRY (1-1/2)
3055	HONORS ORGANIC CHEM. (1-1/2)
3050	CONCEPTUAL CHEMISTRY
3070	AP PHYSICS (1-1/2) (PITT)
3075	HONORS PHYSICS (1-1/2)
3080	PHYSICS (1-1/2)
3085	CONCEPTUAL PHYSICS
3100	HONORS ANATOMY & PHYSIOLOGY (1-1/2) (CARLOW)
3110	ANATOMY & PHYSIOLOGY
*3105	FORENSIC SCIENCE
*3095	NUCLEAR ASTRONOMY
3115	SUSTAINABILITY (PITT)

SOCIAL STUDIES

1010	AP ECONOMICS
1015	HONORS ECONOMICS
1020	ECONOMICS
1025	PROBLEMS OF DEMOCRACY
1005	AP EUROPEAN HISTORY
1000	AP UNITED STATES HISTORY
1295	INTRO TO WORLD POLITICS (PITT)
*1220	CURRENT EVENTS 1
*1225	CURRENT EVENTS 2
*1290	GEOGRAPHY
*1165	A HISTORY OF WESTERN PA
*1155	THE HOLOCAUST
*1215	MODERN GLOBAL CONFLICTS
*1150	MULTICULTURAL STUDIES
*1280	PRINCIPLES OF PSYCHOLOGY
*1210	ADVANCED TOPICS IN PSYCHOLOGY
*1285	SOCIOLOGY
*1205	TRIAL LAW

ART

*8005	PRINCIPLES OF STUDIO ART
*8006	DRAWING
8010	STUDIO ART 2
8015	STUDIO ART 3
8020	AP STUDIO ART (Drawing)
8017	AP 2-D ART & DESIGN
*8030	ANIME & ILLUSTRATION
*8040	CERAMICS 1
*8045	CERAMICS 2
8050	CERAMICS 1 & 2
*8054	CERAMICS 3
*8056	CERAMICS 4
8058	CERAMICS 3 & 4
*8130	CRAFTS & SCULPTURE 1
*8140	CRAFTS & SCULPTURE 2
8150	CRAFTS & SCULPTURE 1 & 2
*8095	JEWELRY 1
*8100	JEWELRY 2
8105	JEWELRY 1&2
*8115	JEWELRY 3
*8120	JEWELRY 4
8125	JEWELRY 3 & 4
*8080	DIGITAL ARTS 1
*8085	DIGITAL ARTS 2
8090	DIGITAL ARTS 1 & 2

BUSINESS INFORMATION TECHNOLOGY ED.

*5130	FOUNDATIONS OF BUSINESS & MANAGEMENT
*5020	HON. BUSINESS & MANAGEMENT (CARLOW)
*5140	SMALL BUSINESS MANAGEMENT
*5115	MARKETING & ADVERTISING
*5110	PERSONAL FINANCE.
*5000	ACCOUNTING 1
*5005	ACCOUNTING 2
*5010	HON. ACCOUNTING 3 (CARLOW)
*5100	MICROSOFT OFFICE APPL. 1
*5101	MICROSOFT OFFICE APPL. 2
5102	MICROSOFT OFFICE APPL. 1 & 2
*5103	HON.MICROSOFT OFFICE APPL. 3 (LAROCHÉ)
*5145	WEB PAGE DESIGN
*5148	HON. WEB PAGE DESIGN (PITT)
*5155	MOBILE APPLICATIONS TECH.

FAMILY & CONSUMER SCIENCE

*6046	FOODS
*6047	QUICK PREP FOODS
*6048	INTERNATIONAL FOODS
*6049	GOURMET FOODS
*6050	TITAN CAFÉ
*6040	THE REAL WORLD
*6056	INTERIOR DESIGN STUDIO
*6100	CREATIVE SEWING LAB 1
*6105	CREATIVE SEWING LAB 2
*6110	APPAREL MANUFACTURING
*6120	FASHION
*6000	CHILD DEVELOPMENT
*6005	PRESCHOOL LAB 1
*6010	PRESCHOOL LAB 2
*6015	ADV. PRESCHOOL LAB (CARLOW)

MUSIC

8500	CONCERT CHOIR
8505	HONORS CHAMBER CHOIR
8535	HONORS WOMEN'S CHORUS
8600	JAZZ ENSEMBLE II
8610	HONORS JAZZ ENSEMBLE I
8620	SYMPHONIC BAND
8650	HONORS WIND ENSEMBLE
8630	CHAMBER ORCHESTRA
8635	CONCERT ORCHESTRA
*8660	PIANO LAB 1
*8665	PIANO LAB 2
*8545	PERCUSSION ENSEMBLE
*8540	MUSIC THEORY

TECHNOLOGY EDUCATION

*9050	WOOD TECHNOLOGY 1
*9060	WOOD TECHNOLOGY 2
9070	WOOD TECHNOLOGY 1&2
*9075	WOOD TECHNOLOGY 3
*9080	WOOD TECHNOLOGY 4
9085	WOOD TECHNOLOGY 3 & 4
9198	CABINETRY 1
9199	CABINETRY 2
*9090	METAL TECHNOLOGY 1
*9100	METAL TECHNOLOGY 2
9101	METAL TECHNOLOGY 1 & 2
*9102	METAL TECHNOLOGY 3
*9103	METAL TECHNOLOGY 4
9104	METAL TECHNOLOGY 3 & 4
9105	METAL FABRICATION 1
9106	METAL FABRICATION 2
*9040	ROBOTICS/ELECTRONICS 1
*9045	ROBOTICS/ELECTRONICS 2
9046	ROBOTICS/ELECTRONICS 1 & 2
*9047	ROBOTICS 3/AUTOMATION
*9048	ROBOTICS 4/AUTOMATION
9049	ROBOTICS 3 & 4/AUTOMAT.
*9110	ENGINEERING DESIGN/CAD 1
*9115	ENGINEERING DESIGN/CAD 2
9125	ENG. DESIGN/CAD 1 & 2
*9130	ENGINEERING DESIGN/CAD 3
*9135	ENGINEERING DESIGN/CAD 4
9140	ENG. DESIGN/CAD 3 & 4
*9150	VISUAL COMMUNICAT. 1
*9160	VISUAL COMMUNICAT. 2
9165	VISUAL COMM. 1 & 2
*9170	VISUAL COMMUNICAT. 3
*9175	VISUAL COMMUNICAT. 4
9180	VISUAL COMM. 3 & 4
*9190	VIDEO PRODUCTION 1
*9191	VIDEO PRODUCTION 2
9192	VIDEO PRODUCTION 1 & 2
9195	TV PRODUCTION 1
9196	TV PRODUCTION 2
*9185	DIGITAL PHOTOGRAPHY 1
*9186	DIGITAL PHOTOGRAPHY 2
9187	DIGITAL PHOTOGRAPHY 1 & 2

WORLD & CLASSICAL LANGUAGES

4010	FRENCH 1
4015	FRENCH 2
4020	FRENCH 3
4025	HONORS FRENCH 4 (PITT)
4035	HONORS FRENCH 5 (PITT)
4110	JAPANESE 1
4115	JAPANESE 2
4120	JAPANESE 3
4125	HONORS JAPANESE 4
4130	AP JAPANESE
4135	LATIN 1
4140	LATIN 2
4145	LATIN 3
4150	HONORS LATIN 4 (PITT)
4160	HONORS LATIN 5 (PITT)
4080	SPANISH 1
4085	SPANISH 2
4090	SPANISH 3
4095	HONORS SPANISH 4 (PITT)
4105	HONORS SPANISH 5 (PITT)

PROGRAM CHOICE

5944	BEATTIE TECH AM
5945	BEATTIE TECH PM
5200	EARLY RELEASE
0911	ESSENTIALS OF FIREFIGHTING @ ALLEGHENY COUNTY FIRE ACADEMY
XXXX	CCBC DUAL ENROLLMENT

ALTERNATE ELECTIVES

#	_____
#	_____
#	_____
#	_____

12th GRADE COURSE SELECTION WORKSHEET 2024-2025

STUDENT NAME _____ HOMEROOM SECTION _____

All courses available to Grade 12 students are listed on the previous page.

Subject Area	Course Title	Course Number	Credits
Lunch	Lunch	7901 & 7902	0.0
English			
Social Studies			
Math			
Science			
Physical Education (Enter 2 nd Choice as an Alternate)	PE 1 st Choice: PE 2 nd Choice:	PE 1 st Choice Course#: PE 2 nd Choice Course#:	
World Language or Electives			
Electives			
Electives			
Electives			

- PROGRAM CHOICE:**
- Beattie Tech Career Concentration: _____
 - CCBC
 - Early Release Program
 - Fire Academy

SCHEDULING OPTIONS

A.W. BEATTIE CAREER CENTER

A.W. BEATTIE CAREER CENTER

Credit Value: 3

Open to Grades: 10*, 11, 12

***10 – Cosmetology Only**

General Information

A.W. Beattie Career Center Programs are approved Programs of Study (POS) providing for seamless transition to post-secondary education through rigorous content aligned with challenging academic and relevant career context in a non-duplicative progression of courses aligned to post-secondary education. SOAR is a Pennsylvania program which allows CTE students to earn free college credit. Students earn free credits with a qualifying score from the NOCTI Senior year assessment and confirmation that they have completed the entire CTE program of study. To obtain these free credits, students must submit the proper paperwork to the college, as outlined below. This paperwork requires CTE administrative signatures for submittal.

To determine the free credits offered for Pennsylvania Career and Technical Educational Programs of Study (POS) visit the website <http://www.collegetransfer.net/>. After selecting your Program of Study and your high school graduation year, you can view all of the colleges offering free credits for your particular CTE program. Additionally, A.W. Beattie Career Center maintains many college credit articulation agreements with two and four year post-secondary institutions, please visit our website www.beattietech.com for additional information.

Students who attend A. W. Beattie may be eligible to earn math and/or science credits toward graduation requirements. Please see your Counselor for additional information.

A number of A. W. Beattie's programs require uniforms and equipment. The student and parents assume this cost. Therefore, students should obtain accurate cost information before enrolling for a course. Transportation is provided by the School District.

Applications to attend A.W. Beattie Career Center should be made during the second semester of 10th grade (or 9th grade students interested in Cosmetology) and will be carefully reviewed. Further information concerning the A. W. Beattie Career Center's program is available in the School Counseling Office.

Course Offerings —

- Advertising Design
- Automotive Collision Technology
- Automotive Technology
- Carpentry/Building Construction
- Computer Systems, Networks & Cyber Security
 - Network Engineering & Cyber Security
 - Computer Systems Technology
- Cosmetology (10th, 11th and 12th Grade)
- Culinary Arts
- Dental Careers
- Early Childhood Education
- Emergency Response Technology Networks
- Health and Nursing Sciences
- Heating, Ventilating and Air-Conditioning
- Pastry Arts
- Pharmacy Operations (12th Grade Only)
- Sports Medicine – Rehab Therapy and Exercise Sciences Technology
- Surgical Sciences
- Veterinary Sciences Technology

Course Offering Descriptions:

Advertising Design – The **Advertising Design** program at A. W. Beattie Career Center focuses on a wide variety of professional art-related fields, including Digital Graphic Design, Multimedia, Digital Photography, and Web Design. Students will train in a dual-platform (Mac and PC) environment using the latest in professional graphic design software and equipment, such as: Adobe Photoshop CS5.5, Adobe Illustrator CS5.5, Adobe Premier Pro, Adobe Dreamweaver CS5.5, and many others. Achieve advanced standing at local colleges or universities by utilizing college credits you can earn while you are an Advertising Design student working towards your Adobe Certified Associate Certificate in our customized designed studio.

Automotive Collision Technology – **Automotive Collision Technology** prepares students in all aspects of the industry including MIG welding, computerized paint mixing, and spraying techniques. Using the latest technology in our fully equipped auto shop keeps students up to date with current standards. The Automotive Collision Technology program utilizes the nationally recognized I-CAR curriculum. Students earn their SP/2 industry Safety Certification leading to enhanced employment opportunities. Cooperative education experiences in local area dealerships provide authentic educational experiences. The Automotive Collision Technology program is certified by NATEF (National Automotive Technicians Education Foundation) ensuring that the Career Center meets strict education and industry standards.

Automotive Technology - The NATEF (National Automotive Technicians Education Foundation) ensures the **Automotive Technology** program within A. W. Beattie Career Center meets strict standards, providing students with hands-on experience using up-to-date diagnostic equipment in our state-of-the-art auto shop. Automotive Technology is an AYES (Automotive Youth Education Systems) training facility. AYES provides students authentic experiences during their senior year, with on-site experiences in local area dealerships, allowing for those important career connections. NATEF and AYES certifications assure students the best training and preparation to complete their ASE (Automotive Service Excellence) certification in less time, upon graduation. Students will have the opportunity to earn their PA Safety and Emissions Inspection credentials prior to graduation.

Carpentry/Building Construction - The use of hand and power tools, blueprint reading, framing, finishing, roofing, drywall, and insulation are taught through hands-on experience in the **Carpentry/Building Construction** program. Students have the opportunity to learn skills in the carpentry, masonry, plumbing, and electrical fields. BAMP activities and competitions, as well as community projects challenge students during the year, preparing them for immediate employment. Students have the opportunity to experience live work by taking part in the ongoing project of building a modular home. Students will gain educational experiences with industrial rigging, scissor lift operations, and forklift training. Students will have the opportunity to earn their OSHA-10 Safety Certification and PA Builder's Certificate.

Computer System, Network Engineering and Cyber Security – In this integrated dual learning pathway students will have the opportunity to explore and develop their interest in two of the most sought-after skill sets in the computer field; **Network Engineering and Cyber Security and/or Computer Systems Technology**. Building, maintaining and troubleshooting computers and peripherals is part of the curriculum. Students will learn the basics of networking, build and create virtual servers, and they will also set up and maintain Internet client services. Students participate in the Cisco approved IT Essentials course through the Cisco Networking Academy. The curriculum builds upon itself to create a pathway for students to participate in the next step of the curriculum with Networking and Cyber Security. Students will be able to test for the CISCO Certified Networking Associates Certification.

Cosmetology - In **Cosmetology**, the Beattie Salon provides qualified Cosmetology students with the opportunity to use their energy, skills, and imagination on clients from the community, in a state-of-the-art Cosmetology Salon. Students will study care of hair, nails, and skin. They will learn the proper use of cosmetology tools and equipment, as well as techniques in hair cutting, styling, coloring, permanent waving, and relaxing, manicuring, pedicuring, and skin care. Students will also focus on professionalism and customer relations, while preparing to test for their Pennsylvania State Cosmetologist License.

Culinary Arts - The **Culinary Arts** Department has built a solid reputation as one of the finest programs throughout the State. The Beattie Dining Room, given a three-star rating by the Pittsburgh Press, serves breakfast and lunch to more than 150 people a day! Located in the Dining Room, the Bake Shop sells cookies, brownies, pies, cakes, and various pastries. Students learn all aspects of the restaurant business from meal planning, food preparation, baking and carving, top dining room management, and banquet serving. There are many job opportunities within the always growing Culinary Industry as well as scholarships for students provided by prestigious culinary colleges. Students practice their craft in a commercially equipped kitchen and bakery while earning their ServSafe Food Safety Certification.

Dental Careers - In **Dental Careers** students learn the necessary skills for employment in Dental Assisting, Lab Technician, Infections Control Assistant, and many more opportunities within the Dental Industry. Seniors participate in hands-on work experiences in dental offices learning and assisting in four-handed dentistry, chair-side assisting, administrative skills, and other techniques. Students will prepare to test for their PA Radiological Certification on the Career Centers state of the art Digital X-Ray System. Upon successful program completion and two years of employment, students will be eligible for their Dental Assisting National Board exam.

Early Childhood Education - Students enrolled in **Early Childhood Education program** experience the opportunity to apply their child development and teaching skills will engaged in a variety of settings. In addition to a variety of classroom activities, students learn the industry standards for hands-on activities with infants, toddlers, and preschool age children. Students participate in a college and career program of study in a variety of facilities, including the on-site accredited Kiddie Tech Early Learning Center, practicing and refining their creative teaching skills, as well as learning the basics in caring for and managing children. Students will participate in the Childhood Development Association (CDA) Ready Certification. Additionally, students will have the opportunity to be certified in First Aid and CPR as part of their classroom curriculum. Our ECE students are actively engaged with a number of community-based activities through the local libraries and Junior Achievement of Southwest Pennsylvania. The Early Childhood Education program is an excellent introduction to the post-secondary elementary education major.

Emergency Response Technology – The **ERT** course challenges students with exciting hands-on training in a fully equipped on-site lab, as well as field trips to the local Police and Fire Academies, throughout the school year. Students study several technical fields including police science, fire science, rescue operations, hazardous materials, and emergency medical services. Certification as an Emergency Medical Technician (EMT) at A. W. Beattie Career Center will prepare students for immediate employment in the growing Emergency Response Industry.

Health and Nursing Sciences – The **Health and Nursing Sciences** program will prepare students for the medical field that is rapidly growing and changing. There's never been a better time to pursue a career in the Health Industry. The core curriculum will prepare students for entry level positions, such as Medical Assisting, Nurse Assisting and Patient Care Technician. For those students that have an interest in becoming a Nurse, Radiology Technician, or related positions, this program will prepare them for post-secondary education. During the course of study, students may have the opportunity to gain valuable hands-on clinical experience in hospitals, nursing homes, physical therapy clinics, and private offices where they will practice and perfect their skills, preparing them for an exciting and rewarding career in healthcare. Certification as a Patient Care Technician is available to students who successful complete their clinical rotation and certification exam through A.W. Beattie or nurse aide certification is one post-secondary pathway with an industry partner facility. Students have an opportunity to participate in a dual enrollment opportunity through CCAC as part of this program for college credits.

Heating, Ventilating, and Air-Conditioning – In **HVAC**, students will master the necessary skills to become qualified technicians and mechanics within their field. Students learn heating installation and service, air-conditioning installation and service, plumbing, electrical wiring, refrigeration, and sheet metal fabrication. Students will put these skills into use when they participate in the plumbing, ventilating, and wiring of the Beattie modular home. They also test for their EPA certification and OSHA-10 Safety Certification at A. W. Beattie, helping to ensure immediate employment opportunities along with post-secondary opportunities. In addition, students may gain experience with industrial rigging, scissors lift operation, and forklift training.

Pastry Arts – The **Pastry Arts** course provides students with an opportunity to learn all functions of a commercial bakery while perfecting their creative pastry skills. Students keep the bakery cases, located in the Beattie Dining Room stocked full of cakes, cookies, pies, brownies, breakfast pastries, and a variety of specialty breads and rolls. Students receive quality training in our fully equipped Pastry Arts lab learning everything from baked goods preparation to merchandising, and dining room service. There are classroom demonstrations from industry professionals throughout the school year, as well as field trips to local bakeries and restaurants. Students will prepare special orders for holidays, weddings, and special events throughout the year. Students have the opportunity to earn their ServSafe Food Safety Certification.

Pharmacy Operations – Pharmacy Technicians and Pharmacists employment openings are projected to grow at a rate of twenty-five to thirty-two percent over the next ten years. Positions exist in the public and private sector making this exciting career a sound desirable career choice. Students will experience an interactive learning environment; experimenting on state-of-the-art equipment. Students will learn firsthand the skills needed to process patient medication orders. Students will be prepared to move into advanced post-secondary studies or test for entry level employment. The potential is endless in our ever-changing society.

Robotics Engineering Technology (RET) - The Robotics Engineering Technology (RET) program is designed to train students in skills related to the rapidly developing, innovative robotics and manufacturing industries. In RET, students integrate math and science concepts with cutting-edge technology in robotics and/or manufacturing. The RET curriculum has been developed in partnership with the Advanced Robotics for Manufacturing Institute based primarily at Carnegie Mellon University. Students selecting the RET program are typically preparing for a career in robotics, electronics, mechatronics, advanced manufacturing, or engineering. All students in the RET program study the core curriculum of electronics and robotics. Students also choose at least one specialty from among 3D modeling and design (for 3D printing and CNC machining), coding on platforms such as Arduino, Raspberry Pi, and LocoRobo, and Fanuc robotic arm operation. Individual projects assigned by the instructor or chosen by the student are encouraged. The FIRST Robotics Competition is part of the in-class robotics curriculum. Additionally, students interested in attending the competitions work in the evenings and weekends during the robot build season. RET students may earn up to 20 credits for use in post-secondary education in Robotics or Mechatronics Engineering at California University of Pennsylvania. Numerous other articulation agreements provide students with 4-14 credits at local colleges upon successful completion of the RET curriculum. Industry-related certifications are also available for students.

Sports Medicine – Rehab Therapy and Exercise Sciences Technology (SMART-EST) – The **SMART-EST** program is designed for students that are looking towards the fields of: physical therapy, occupational therapy, physical rehabilitation, exercise physiology, and sports medicine. Students will develop valuable skills in diagnosis, differential diagnosis, assessment and prevention, along with prognosis and the rehabilitation of bodily injuries and related health conditions. Students will learn the therapy and application principles of a patient care plan including assessment, evaluation, interventions of exercise, manual therapy, modalities and neuro re-education. Students will also develop goal setting and discharge plans for patients. Students will participate in nutrition understanding, as they learn how to develop proper diet plans for healthy individuals, and they will learn how to tailor diet plans for special populations. Career Pathways for SMART-EST are listed at www.beattitech.com.

Surgical Sciences – Surgical Sciences will introduce students to the operations of the Surgical Operating Room (OR). Students will experience and master the skills required to prep surgical instruments for patient care procedures. Students will learn medical terminology that will coordinate with post-secondary options and career employment. Students will learn in a simulated operating room environment where central sterile environment procedures will be practiced. Our students will interact with medical professionals that will enhance the daily learning environment. Surgical Science students will develop their communication, math, and medical dexterities to prepare them to become successful adults. Join us for a career pathway that has endless potentials.

Veterinary Sciences Technology – Students enrolled in the **Veterinary Sciences** program will experience a wide variety of care and management techniques throughout the program. Students will learn to maintain medical records, schedules, offer client education, explore authentic laboratory procedures, and assist with nursing and prepare for surgical duties; along with routine exams. Students will gain a solid foundation in the Veterinary Sciences program on which to build a post-secondary degree. Students will have the opportunity to earn the following recognized industry certifications: Purina Certified Weight Coach, Pet Tech First Aid and CPR.

Certifications:

Through strategic planning and partnerships with local employers, A.W. Beattie Career Center offers a variety of nationally recognized validated industry skills certifications. Senior students will participate in the annual National Occupational Competency Testing Institute exams (NOCTI).

Training related externships are required for all students wishing to earn a Performance Certificate with honors during their enrollment at A. W. Beattie Career Center. These related externship experiences can be paid or unpaid and fall into one of the following categories: Cooperative Education, Job Shadowing, Clinical Experiences or Internships and Volunteer opportunities.

Student Success Center services are open to all students. The Center is designed to facilitate the needs of students to help them reach their full potential. Facilitators provide support services through tutoring, study guides, test assistance, and curriculum modification. Facilitators and Instructional Assistants offer support in the classrooms and labs.

COLLEGE IN HIGH SCHOOL

Students may choose to participate in one of several College in High School courses. Students who elect this option will schedule one of the courses below, complete the required coursework and will be required to pay a fee in order to earn the college credit.

CARLOW UNIVERSITY

Honors Anatomy and Physiology
Honors Accounting 3
Honors Business & Management
Advanced Preschool Lab

CCAC

Business Management
Accounting

CCBC

Aviation

LAROCHE COLLEGE

Honors Microsoft Office Applications 3

UNIVERSITY OF PITTSBURGH

Honors Web Page Design
Business Calculus
AP Calculus AB
AP Calculus BC
Honors Computer Science (Python)
Honors Computer Science (JAVA)
Honors Probability & Statistics
AP Physics C
AP Biology

AP Chemistry
Sustainability
Introduction to World Politics
Honors French 4
Honors French 5
Honors Latin 4
Honors Latin 5
Honors Spanish 4
Honors Spanish 5

ESSENTIALS OF FIREFIGHTING @ Allegheny County Fire Academy Credit Value: .5
(0911)

Days per year: 14

Semester: Full Year

Prerequisites: None. Membership in Volunteer Fire Department strongly recommended.

Open to Grades: 10, 11, 12

In partnership with the Allegheny County Fire Academy, Essentials of Firefighting is offered to students interested in serving their communities within the volunteer fire service by learning entry level fire training, CPR, and first aid. While membership in a local volunteer fire company is highly recommended, it is not required.

Throughout the school year, students will be transported to the Allegheny County Fire Academy, located in North Park, and participate in classroom and hands-on course work to learn the knowledge and skills necessary to serve as an entry-level volunteer firefighter. Students have potential to earn industry-based credentials for completing Essentials of Firefighting Module 1, Module 2, Module 3, Haz-Mat, and CPR as well as scholarship opportunities through CCAC's FireVest program. Students enrolling in the program will maintain a typical high school schedule and be excused from Shaler Area High School on days the program is in session (12-14 days a year) throughout the school year.

EARLY RELEASE PROGRAM

2024-2025

Description:

Senior students interested in an early release program should meet and discuss their intentions with their assigned School Counselor.

Eligibility Requirements:

- Demonstrates personal maturity and responsibility.
- Earned the minimum of 19 credits before entering their senior year.
- Is on track or met all Pennsylvania state requirements with regards to Keystone Exams or Graduation Pathway.
- Applicants will be screened by school counselor and IEP team, if applicable.
- Students will be in regular attendance of school without truancy issues.
- Parental Consent must be granted.
-

Program guidelines and expectations:

- Students may be dismissed from school at the end of 6th period, 7th period or 8th period dependent upon student plans, high school master schedule, and potential credit needs for graduation.
- Students released for work must provide proof of employment, maintain 20+ hours of work, and provide verification upon request.
- Students must be able to provide their own transportation and be eligible for parking permits.
- All students must vacate school grounds at the time of the scheduled early release.
- Students are expected to maintain their graduation status or return to a full day schedule at semester of senior year.
- This privilege may be revoked without warning if, in the judgment of the building administration, it is being used inappropriately or abused by the student.

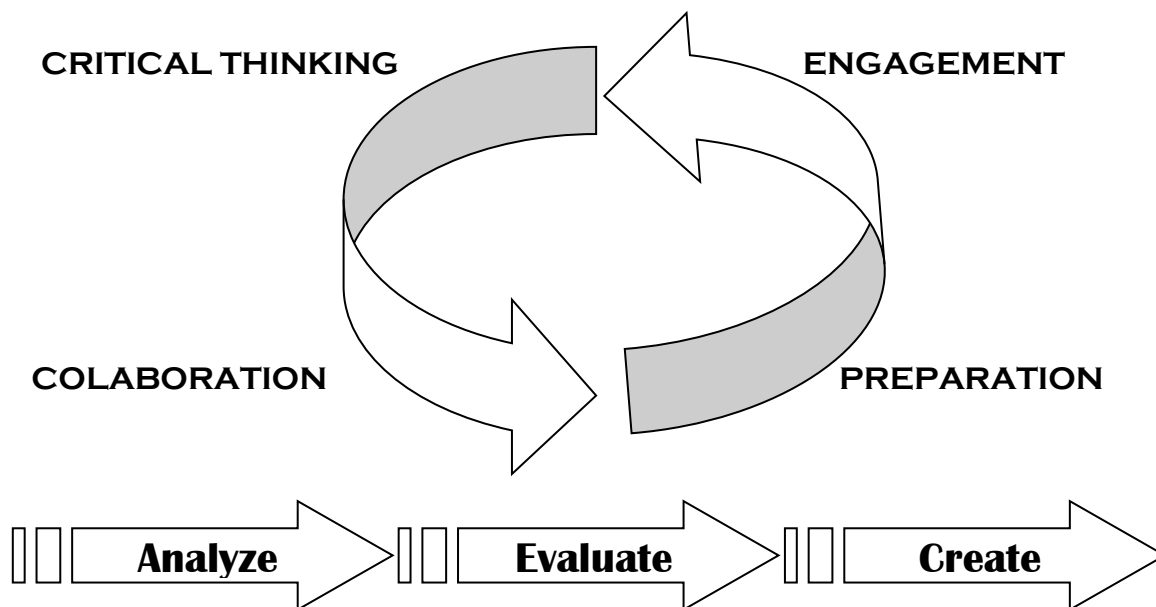
**Attempts will be made to accommodate student schedules but should the scheduling of a required course conflict with the early dismissal time; students will be scheduled for a full day of courses.

CAREER PATHWAYS

Shaler Area High School

Career Pathways

Several key Career Pathways were designed to guide students in course selection during their high school years. Each pathway is aligned with the Pennsylvania Career Education and Work Standards, Chapter 4 of Title 22, so that students can gain a sense of those fields and the necessary skills needed for success. Career Pathways are intended to push students beyond the typical criteria for acquiring a high school diploma. Each area is defined by a minimum accrual of 17 core credits: including 4 credits of English, 3 credits of mathematics, 3 credits of science, 4 credits of Social Studies, 3 credits of Health/P.E., plus department specific electives in accordance with a personalized Career Pathway. Students will conduct ongoing reviews of their personalized Career Pathway with their school counselor.



According to the U.S. Bureau of Labor Statistics¹, many of the fastest growing and highest paying careers are in the areas of science, technology, engineering, and mathematics. Shaler Area High School is responding to this employment trend by developing programs of study that will better prepare our students for employment and career stability. In addition to those fields, we believe that the practical Arts can engage students in developing a sense of creative expression and innovation. Therefore, our focus on science, technology, engineering, arts, and mathematics is intended to prepare our students for the emerging S.T.E.A.M. fields that utilize these cognitive skills.

Skills required for college or career readiness in S.T.E.A.M. programs include critical thinking, problem solving and teamwork. To better prepare our students, we have developed an educational framework for all disciplines and types of learners with the goal of engaging students in learning and providing opportunities for students to advance in a competitive employment market.

¹ Employment Projections program, U.S. Department of Labor, U.S. Bureau of Labor Statistics (2012).



Shaler Area High School

Career Pathways

BUILDING & CONSTRUCTION: Carpenter, Electrician, Machinist, Mechanic, Metal Worker, Operating Engineer, Tool & Die Maker

BUSINESS ADMINISTRATION: Accountant, Auditor, Broker, Financial Advisor, Human Resource Specialist, Insurance Agent, Public Relation Specialist

COMPUTER & INFORMATION TECHNOLOGY: Computational Scientist, Computer Scientist, Information Systems Analyst, Instructional Technologist, Nanotechnology Scientist, Robotics Engineer, Software Engineer

EDUCATION: Counselor, Educational Researcher, Learning Researcher, Librarian, Operations Researcher, Psychologist, Researcher, Social Worker, Teacher

ENGINEERING: Acoustical Engineer, Aerospace Engineer, Biomedical Engineer, Chemical Engineer, Civil Engineer, Computer Engineer, Electrical Engineer, Industrial Engineer, Mechanical Engineer, Nuclear Engineer, Petroleum Engineer

GLOBAL STUDIES: Civil Service Worker, Foreign Affairs and Diplomacy Specialist, Foreign Service Assistant, Governmental Agent, Human Resources Director, Humanitarian Aide, International Business Specialist, International Consultant

GRAPHIC DESIGN: Architect, Artist, Designer, Media Specialist, Photographer

HEALTH & MEDICINE: Medical Personnel, Healthcare Worker, Nurse, Personal Trainer, Physical Therapist, Sports Medicine, Veterinary Personnel

MATHEMATICS: Actuarial Scientist, Applied Mathematician, Mathematical Scientist, Statistician

SCIENCE: Biochemist, Biologist, Chemist, Energy Worker, Environmentalist, Geoscientist, Life Scientist, Medical Technologist, Physicist, Neurobiologist, Nuclear Physicist

SOCIAL STUDIES: Anthropologist, Economist, Government Agent, Historian, Lawyer, Paralegal, Politician, Social Scientist, Sociologist

Shaler Area High School Career Pathways

STANDARD DIPLOMA

English	4 credits	17 Core Credits
Math	3 credits	
Science	3 credits	
Social Studies	4 credits	
Phy. Ed.	2 credits	
Health	1 credit	
Electives	8 credits – Career Pathway dependent	
25 Credits		

Career Pathway: BUILDING & CONSTRUCTION

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed.	2 credits
Health	1 credit
Tech Ed Electives	4 credits
Business/Math Electives	2 credits
25 Credits	

Career Pathway: BUSINESS ADMINISTRATION

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed.	2 credits
Health	1 credit
Business/English Electives	4 credits
World Language	2 credits
25 Credits	

Career Pathway: COMPUTER & INFORMATION TECHNOLOGY

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed.	2 credits
Health	1 credit
Technology Electives	4 credits
Business/Math Electives	2 credits
25 Credits	

Shaler Area High School

Career Pathways

Career Pathway: EDUCATION

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed.	2 credits
Health	1 credit
FACS/Music/Technology Electives	4 credits
World Language	2 credits
	25 Credits

Career Pathway: ENGINEERING

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed.	2 credits
Health	1 credit
Science/Technology/Math Electives	3 credits
Art/Music/Tech Ed	3 credits
	25 Credits

Career Pathway: GLOBAL STUDIES

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed. /Health	2 credits
Global Electives	5 credits
World Language	4 credits
	27 Credits
4 Extracurricular Activities, 20 Hours Community Service, 8 Literature Reviews	

Career Pathway: GRAPHIC DESIGN

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed.	2 credits
Health	1 credit
Art Electives	4 credits
Business/English Electives	2 credits
	25 Credits

Shaler Area High School

Career Pathways

Career Pathway: HEALTH & MEDICINE

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed.	2 credits
Health	1 credit
Science/Math Electives	4 credits
FACS/Technology Electives	2 credits
	25 Credits

Career Pathway: MATHEMATICS

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed.	2 credits
Health	1 credit
Business/Math Electives	4 credits
Technology Electives	2 credits
	25 Credits

Career Pathway: SCIENCE

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed.	2 credits
Health	1 credit
Science/Math Electives	4 credits
Technology Electives	2 credits
	25 Credits

Career Pathway: SOCIAL STUDIES

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed.	2 credits
Health	1 credit
Social Studies Electives	4 credits
World Language	2 credits
	25 Credits

PA State Modern Language Association Global Scholars Program

REQUIREMENTS:

1. Academic Courses – average grade of B or higher
 - a. 4 years in the same foreign language
 - b. 4 additional credits of courses that are at least 50% global in nature
English – World Literature, AP English Literature
Social Studies – World Cultures, AP European History, Holocaust, Current Events,
Modern Global Conflicts, Geography

2. Extracurricular Activities (minimum 4)
 - a. World Language Club or Honor Society
 - b. School-sponsored activities that explore global aspects
Ex. School plays with a global/cultural aspect, Model UN, mock ICC, etc.
Field trips: museums, plays, restaurants
Guest speakers, programs brought to school

3. Service (minimum 20 hours)
 - a. Tutoring other world language students
 - b. Mentoring an exchange student or an ESL student
 - c. Working with younger students on world language activities
Ex. Preschool at high school, after school program at primary/elementary schools,
weekend program at public library, activities with SAMS language students
 - d. Global service project (choose an issue, research it, inform students, create an action plan)
Ex. Memory Project (art), etc.
 - e. Mission trips

4. Literature/Media Reviews (minimum of 8, at least 4 of which are books)
 - a. Pre-approved books available at library (display?)
 - b. Film showing at school
 - c. Literature/media that was part of a course (maximum of 2 per course)
 - d. Play review (school play)
 - e. Review must follow standard format, meet standards of rubric

Shaler Area High School

Career Pathways

APPLICATION

Student: _____ *Date:* _____

Career Pathway: _____

Department	SAHS Course	Credits
Math	1.	4 credits
	2.	
	3.	
	4.	
Science	1.	4 credits
	2.	
	3.	
	4.	
English	1.	4 credits
	2.	
	3.	
	4.	
Social Studies	1.	4 credits
	2.	
	3.	
	4.	
Physical Education		2 credits (4 units)
Health		1 credit (2 units)
Electives	1.	9 credits
	2.	
	3.	
	4.	
	5.	
	6.	
	7.	
	8.	
	9.	
	10.	
	11.	
	12.	
		28 Credits

Administrative Use Only	
Approved by: _____	_____
School Counselor, Date	Administrator, Date



Smart Futures is an online career planning and career portfolio platform used by the

Shaler Area School District to:

- 1) Meet the new requirements for Career Readiness Indicators that are part of the Future Ready PA Index
- 2) Integrate career education and social emotional learning curriculum to our students from grades K - 12
- 3) Provide each student a personalized career plan and portfolio upon graduation

Smart Futures info for Students & Parents

Future Ready PA Index has prompted the Shaler Area School District to meaningfully engage students to develop skills needed to become “Future Ready” workers in the 21st century. SASD purchased an annual subscription that assures all students are engaged in an ongoing process to develop a concrete and personalized plan for their future.

Background: Pennsylvania is the first state in the U.S. to provide a solid framework for career education benchmarks and mandate its delivery for all students throughout K-12. Smart Futures is a part of our district’s plan to satisfy the career readiness indicators within the Future Ready PA Index and to comply with federal accountability requirements. Smart Futures is directly aligned to Pennsylvania’s Academic Standards for Career Education and Work, and the requirement to establish an online career plan and career portfolio. Smart Futures is portable. All work that students do travels with them should they leave the district and their plan and portfolio follow the student after graduation.

The SmartFutures.org Solution: Smart Futures has engaged with the Pennsylvania Department of Education to guide the development of SmartFutures.org, an online career planning and portfolio platform built specifically to help schools fully implement the Future Ready PA Index benchmarks into their classrooms. Unlike other off-the-shelf solutions, Smart Futures uses the Pennsylvania Academic Standards for Career Education and Work as its curriculum blueprint.

How Parents Can Help: Ask your student(s) to login to Smart Futures and show you their completed work and progress towards their plan and portfolio. Check out completed activities within each of the 4 grade bands: K-3, 4-5, 6-8 and 9-12. You will see interesting insights about “Who Am I” as well as “I CAN” statements that summarize the ways your student is being empowered by Future Ready PA. Review the career plan which documents the students’ interests in careers, career clusters, programs and majors and post-secondary schools and colleges. And help to expose them to career pathway experiences that they can document in their career portfolio.

Complete the following Activities in SMARTFUTURES

GRADE 9		
Activity #	Activity Name	Standard
1	New Thinking About Career Success	13.1, 13.4
2	My Personality Type	13.1, 13.3
3	Job Application	13.2
4	Preparation for Career	13.1
5	Abilities and Aptitudes	13.1
6	Personal Interests	13.1
7	Career Clusters and Pathways	13.1
8	Experiencing Careers While Still in School	13.1
Completed in Freshman Forum Classes		

GRADE 10		
Activity #	Activity Name	Standard
9	Selecting Your Career Goal	13.1
13	Active Listening	13.3
14	The Entrepreneur Within	13.4
15	Personal Budget	13.3
	Start “My Plan” & “My Portfolio”	
	Skill Badges	
Completed in Health 1 Classes		

GRADE 11		
Activity #	Activity Name	Standard
9	Selecting Your Career Goal	13.1
10	My Programs or Majors	13.1
11	My School and College Survey	13.1
12	Job Interviews	13.2
16	Multiple Intelligences	13.1
	Complete “My Plan” & “My Portfolio”	
	Complete Skill Badges	
Completed in Health 2 Classes		

GRADE 12		
Activity #	Activity Name	Standard
	Resume	13.3
	Skill Badges	
	Update “My Plan” & “My Portfolio”	
Completed in Senior English Classes		13.2

Pennsylvania/America's Career Clusters and Pathways...

 <p>Agriculture, Food & Natural Resources</p> <ul style="list-style-type: none"> Agribusiness Animal and Plant Systems Environmental or Natural Resource Systems Food Products and Processing Systems Power, Structural and Technical Systems 	 <p>Finance</p> <ul style="list-style-type: none"> Banking and Related Services Financial and Investment Planning Insurance Services 	 <p>911, Public Safety & Security</p> <ul style="list-style-type: none"> Correction Services Emergency and Fire Management Services Law Enforcement Services Legal Services Security and Protective Services
 <p>Architecture & Construction</p> <ul style="list-style-type: none"> Construction Design, Pre-Construction Maintenance/Operations 	 <p>Government & Public Administration</p> <ul style="list-style-type: none"> Governance National Security Planning Public Management and Administration Revenue and Taxation 	 <p>Manufacturing</p> <ul style="list-style-type: none"> Health, Safety and Environmental Assurance Logistics and Inventory Control Maintenance, Installation and Repair Manufacturing Production Process Development Production
 <p>Arts, AV Technology & Communications</p> <ul style="list-style-type: none"> Audio and Video Technologies Journalism and Broadcasting Performing Arts Printing Technologies Telecommunications Technologies 	 <p>Health Science</p> <ul style="list-style-type: none"> Biotechnology Research and Development Diagnosics Services Health Informatics Support Services Therapeutic Services 	 <p>Marketing, Sales & Service</p> <ul style="list-style-type: none"> Buying and Merchandising Distribution and Logistics Management Marketing, Communications and Promotion Professional Sales and Marketing
 <p>Business, Management & Administration</p> <ul style="list-style-type: none"> Administration and Information Support Business Analysis Business Financial Management and Accounting Human Resources Management 	 <p>Hospitality & Tourism</p> <ul style="list-style-type: none"> Lodging Recreation, Amusement and Attractions Restaurant/Food Services Travel and Tourism 	 <p>Science, Technology, Engineering & Mathematics</p> <ul style="list-style-type: none"> Engineering and Technology Science and Mathematics
 <p>Education & Training</p> <ul style="list-style-type: none"> Administration and Administrative Support Teaching and Training Professional Support Services 	 <p>Human Services</p> <ul style="list-style-type: none"> Consumer Services Counseling and Mental Health Services Early Childhood Dev. And Services Family and Community Services Personal Care Services 	 <p>Transportation, Distribution & Logistics</p> <ul style="list-style-type: none"> Facility and Mobile Equipment Maintenance Logistics Planning and Management Sales and Service Transportation Operations Transportation Infrastructure Warehousing and Distribution Operations
 <p>Information Technology</p> <ul style="list-style-type: none"> Information Support and Services Interactive Media Network Systems Programming/Software Engineering 		

...opportunities as endless as the stars!

**ART
DEPARTMENT**

ART

PRINCIPLES OF STUDIO ART

(#8005)

Periods Per Week: 5
Prerequisites: None

Credit Value: .5

Semester: Semester
Open to Grades: 9, 10, 11, 12

This introductory studio course is a one semester elective that will prepare the student for further high school art experiences. The student will be introduced to studio art skills and artistic media that are utilized in the art world including: drawing, painting, printmaking, and more! The student will learn about the elements of art and principles of design through an investigative creative experimentation of ideas, materials, and studio processes. Students will use the investigative process to develop their unique ideas, solve artistic problems, and grow an artistic voice to visually display their imaginative ideas.

DRAWING

(#8006)

Periods Per Week: 5
Prerequisites: None

Credit Value: .5

Semester: Semester
Open to Grades: 9, 10, 11, 12

This course is a dynamic and engaging course focused on the elements of drawing. This course focuses on traditional drawing techniques while encouraging students to be creative, making the media come alive in a way that is personally meaningful to them. (Encourage Individual Student Voice) The course will focus on using a visual language while developing student's creative thinking skills in a very hands-on environment.

STUDIO ART 2

(#8010)

Periods Per Week: 5
Prerequisites: 60% or above in Principals of Studio Art or Drawing

Credit Value: 1.0

Semester: Full Year
Open to Grades: 10, 11, 12

This course is designed for students to build upon the foundations of Studio Art 1. This second-year course provides an opportunity for students to expand on the drawing and painting concepts introduced in Studio Art. Emphasis is placed on experiences with design principles, drawing techniques and painting skills leading to the development of abilities that are necessary for advanced art courses. Students are given more in-depth problems to solve creatively while becoming more adept through a broad exposure to various media. Students will continue to solve interpretive and abstract problems; further develop challenges in techniques, a personal style or theme; and combine a more in-depth exploration of media and genre. The curriculum will focus on student voice and independent engagement as well as making learning visible through focused concentration on the studio habits of mind.

STUDIO ART 3

(#8015)

Periods Per Week: 5**Prerequisites:** 70% or above in Studio Art 2**Credit Value:** 1.0**Semester:** Full Year**Open to Grades:** 11, 12

This course is designed for students to explore more advanced artistic concepts using a variety of media- primarily painting. The student will be expected to produce artworks as well as critique, write, and discuss art-based topics intellectually. Along with practicing artistic skills and craftsmanship the student will be developing resourceful problem-solving skills and imaginative cognitive abilities ascertained by the creative process. Emphasis will be placed on advanced levels of individual artistic challenges in skill, technique, personal style and genre development. Construction of a personal portfolio will be stressed.

A.P. STUDIO ART (Drawing)

(#8020)

Periods Per Week: 5**Prerequisites:** Portfolio approval**Credit Value:** 1.0**Semester:** Full Year**Open to Grades:** 11, 12

The AP Studio Art portfolios are designed for students who are seriously interested in the practical experience of art. AP Studio Art is not based on a written exam; instead, students submit portfolios for evaluation at the end of the school year. There will be a direct focus on creative mark-making and exploration of mediums.

This College Board program provides the only national standard for performance in the visual arts with the opportunity to earn college credit and/or advanced placement while in high school.

The instructional goals of the AP Studio Art program can be described as follows:

- Encourage creative and systematic investigation of formal and conceptual issues
- Emphasize making art as an ongoing process that involves the student in informed and critical decision making
- Help students develop technical skills and familiarize them with the functions of the visual elements
- Encourage students to become independent thinkers who will contribute inventively and critically to their culture through the making of art

A.P. Test Date: May 2025**Test Cost:** \$98 (2024)**Registration Deadline:** See Teacher**Summer Assignment:** Artworks

A.P. 2-D ART & DESIGN**(#8017)****Periods Per Week:** 5
Prerequisites: Portfolio approval**Credit Value: 1.0****Semester:** Full Year
Open to Grade: 11, 12

The AP Studio Art portfolios are designed for students who are seriously interested in the practical experience of art. AP Studio Art is not based on a written exam; instead, students submit portfolios for evaluation at the end of the school year. There will be a direct focus on the elements and principles of design and the application of them in aesthetic, creative art production.

This College Board program provides the only national standard for performance in the visual arts with the opportunity to earn college credit and/or advanced placement while in high school.

The instructional goals of the AP Studio Art program can be described as follows:

- Encourage creative and systematic investigation of formal and conceptual issues
- Emphasize making art as an ongoing process that involves the student in informed and critical decision making
- Help students develop technical skills and familiarize them with the functions of the visual elements
- Encourage students to become independent thinkers who will contribute inventively and critically to their culture through the making of art

A.P. Test Date: May 2025
Test Cost: \$98 (2024)
Registration Deadline: See Teacher
Summer Assignment: Artworks

ANIME & ILLUSTRATION**(#8030)****Periods Per Week:** 5
Prerequisites: None**Credit Value: .5****Semester:** Either
Open to Grades: 9, 10, 11, 12

This course will explore the evolution and impact of “cartoons” on our culture. You will learn to draw characters using multiple methods of illustration and dynamic composition. Characters will be created on paper with ink, but also in digital formats. Anime & Illustration will compare and contrast “cartoon art” from the past to the current Anime graphic novels of today.

Your ideas and images will become more interesting, mature and complex as your knowledge grows, inspiring exhilarating stories for your new characters.

CERAMICS 1**(#8040)****Periods Per Week:** 5
Prerequisites: None**Credit Value: .5****Semester:** Either
Open to Grades: 9, 10, 11, 12

This semester-long course allows the student hands-on experience in a broad range of ceramic skills, including, but not limited to the coiling method, slab construction, throwing on the pottery wheel, and glazing techniques. Students will also become familiar with the characteristics and the manipulation of the clay, along with the firing of the kiln and the mixing of clay.

CERAMICS 2**(#8045)****Periods Per Week:** 5
Prerequisites: 60% or above in Ceramics 1**Credit Value:** .5**Semester:** Either
Open to Grades: 9, 10, 11, 12

This semester-long course is an extension of Ceramics 1 where skills and procedures introduced in the first level will be further examined. Skills include, but are not limited to coiling, slab construction, throwing, and glazing techniques. Carving and shaping foam molds for platters, attaching handles to wheel thrown cylinders, and creating forms using the clay extruder are additional skills that will be taught and used to create matching sets.

CERAMICS 1 & 2**(#8050)****Periods Per Week:** 5
Prerequisites: See above**Credit Value:** 1.0**Semester:** Both
Open to Grades: 9, 10, 11, 12

CERAMICS 3**(#8054)****Periods Per Week:** 5
Prerequisites: 70% or above in Ceramics 2**Credit Value:** .5**Semester:** Either
Open to Grades: 10, 11, 12

This advanced, semester-long course allows students to continue to improve upon their personal techniques, interests, and influences while continuing to grow their skills making matching sets. Students will incorporate personal ideas into creating more complex forms, including throwing lidded pots, incorporating multiple forms and including non-ceramic materials into the construction of their artwork.

CERAMICS 4**(#8056)****Periods Per Week:** 5
Prerequisites: 70% or above in Ceramics 3**Credit Value:** .5**Semester:** Either
Open to Grades: 10, 11, 12

This high-level, semester-long course will continue to focus on personal influences and complex works while producing multiple forms. Possible assignments could include dinnerware sets, teapots, and sculptures. The second nine-weeks will be focusing on Raku and alternative firings, including horsehair/feather/ferric chloride reduction, foil saggar and barrel firings.

CERAMICS 3 & 4**(#8058)****Periods Per Week:** 5
Prerequisites: See above**Credit Value:** 1.0**Semester:** Both
Open to Grades: 10, 11, 12

CRAFTS & SCULPTURE 1

(#8130)

Periods Per Week: 5
Prerequisites: None**Credit Value:** .5**Semester:** Either
Open to Grades: 9, 10, 11, 12

Crafts & Sculpture 1 is an introductory hands-on studio class, focusing on working in 3-Dimensions. This course is designed to explore traditional and contemporary crafts and sculpture. Original designs and concepts will be expressed through clay, fiber, glass, metal, wood or found objects.

CRAFTS & SCULPTURE 2

(#8140)

Periods Per Week: 5
Prerequisites: 60% or above in Crafts & Sculpture 1**Credit Value:** .5**Semester:** Either
Open to Grades: 9, 10, 11, 12

Crafts & Sculpture 2 will continue to expand on the investigation of working with more complex techniques and applications of materials. Higher levels of creativity, composition and craftsmanship will be stressed, as well as use of various materials. Emphasis will be placed on designing and creating original projects and mastering techniques in craftsmanship.

CRAFTS & SCULPTURE 1 & 2

(#8150)

Periods Per Week: 5
Prerequisites: See above**Credit Value:** 1.0**Semester:** Both
Open to Grades: 9, 10, 11, 12

JEWELRY 1

(#8095)

Periods Per Week: 5
Prerequisites: None**Credit Value:** .5**Semester:** Either
Open to Grades: 9, 10, 11, 12

The Jewelry 1 student will explore creative design and the process of jewelry fabrication using sheet metal, wire, and other found objects. Skills and techniques in soldering, sawing, piercing, surface decorating, stone settings, inlay and refining metals through buffed and polished stages will be developed.

JEWELRY 2

(#8100)

Periods Per Week: 5
Prerequisites: 60% or above in Jewelry 1**Credit Value:** .5**Semester:** Either
Open to Grades: 9, 10, 11, 12

The Jewelry 2 student will create functional and creative jewelry; explore the lost-wax process of casting jewelry; build upon previously acquired skills and techniques of jewelry fabrication and stone setting techniques; and investigate contemporary glass bead lampworking. Attention will be given to creative design and master of jewelry making skills.

JEWELRY 1 & 2

(#8105)

Periods Per Week: 5
Prerequisites: See above**Credit Value:** 1.0**Semester:** Both
Open to Grades: 9, 10, 11, 12

JEWELRY 3

(#8115)

Periods Per Week: 5
Prerequisites: 70% or above in Jewelry 2**Credit Value:** .5**Semester:** Either
Open to Grades: 10, 11, 12

The Jewelry 3 student will explore more complicated areas of creative design and expression of jewelry making. Students will develop mastery skills and techniques of jewelry fabrication, lost-wax process of casting, stone setting techniques, contemporary glass bead lampworking, and/or enameling processes.

JEWELRY 4

(#8120)

Periods Per Week: 5
Prerequisites: 70% or above in Jewelry 3**Credit Value:** .5**Semester:** Either
Open to Grades: 10, 11, 12

The Jewelry 4 student will continue to explore more complicated areas of creative design and expression of jewelry making. Students will develop mastery skills and techniques through an individualized course of study.

JEWELRY 3 & 4

(#8125)

Periods Per Week: 5
Prerequisites: See above**Credit Value:** 1.0**Semester:** Both
Open to Grades: 10, 11, 12

DIGITAL ARTS 1

(#8080)

Periods Per Week: 5
Prerequisites: None**Credit Value:** .5**Semester:** Either
Open to Grades: 9, 10, 11, 12

This semester-long course is an introduction into the world of graphic design and creating images using Adobe Illustrator and Photoshop on CS6. Students will learn some of the basic tools to create vector art like logos, self-caricatures, and advertisements for events. Altering images is also explored through photoshop using tutorials. The elements of art and principles of design will be highly emphasized. A background and interest in computers and visual art is strongly recommended.

DIGITAL ARTS 2**(#8085)****Periods Per Week: 5****Prerequisites: 60% or above in Digital Arts 1****Credit Value: .5****Semester: Either****Open to Grades: 9, 10, 11, 12**

This semester-long course is a continuation of Digital Arts 1 with an emphasis on mastering skills learned in the first semester while learning new tools and techniques in both vector art and altering images. Students will continue to manipulate images and alter them for different purposes, and will explore creating their own images, characters, and scenes based on books, stories, etc. The elements of art and the principles of design will be highly emphasized.

DIGITAL ARTS 1 & 2**(#8090)****Periods Per Week: 5****Prerequisites: See above****Credit Value: 1.0****Semester: Both****Open to Grades: 9, 10, 11, 12**

**BUSINESS &
INFORMATION
TECHNOLOGY
EDUCATION**

BUSINESS & INFORMATION TECHNOLOGY EDUCATION

The Business & Information Technology Department's goal is to provide courses for students that are relevant, realistic, and current with technology and business practices.

Business Courses

Foundations of Business & Management

Honors Business & Management (CHS)

Marketing & Advertising

Small Business Management

Accounting Courses

Accounting 1

Accounting 2

Honors Accounting 3 (CHS)

Personal Finance

Computer Courses

Microsoft Office Apps 1

Microsoft Office Apps 2

Honors M.O. App 3 (CHS)

Web Page Design

Honors Web Design (CHS)

Mobile Apps Technology

BNY Mellon / CCAC Early College Program	
<ul style="list-style-type: none"> Earn up to 18 FREE college credits at CCAC (credits easily transfer to other schools). Potentially earn a professional certificate to help you get a better-paying job. Take one of the classes below to get started. See Mrs. Sprys or Mr. Sorby for more information. 	
CCAC Early College Program	Must take to be eligible: (need one class)
Accounting Track	<ul style="list-style-type: none"> Accounting (any level)
Business Management Track	<ul style="list-style-type: none"> Foundations of Business. & Mgmt Honors Business & Mgmt* Small Business Mgmt Marketing & Advertising

HONORS BUSINESS & MANAGEMENT (CHS)**Credit Value: .5****(College in High School - Carlow)****(#5020)****Periods Per Week: 5****Semester: Either****Prerequisites: 80% or higher in another business course
or previous or current enrollment in
any Honors/CHS course****Open to Grades: 10, 11, 12**

This College in the High School business course is designed to be an introduction to the fields of business and management, while providing an opportunity to explore possible career options. General business concepts including business structures, global commerce, economics, and social responsibility will be investigated. Additionally, students will build a working knowledge of crucial aspects of running and managing business such as production, business operations, marketing and technology. Management theories, including entrepreneurship, management functions, ethics and human relations, will be studied while emphasizing communication and teamwork. An interview with a small business owner is required to enrich student learning. Lastly, the culmination of the course is the creation of an abbreviated business plan in small groups. Seeking CHS credit is optional. *This course is the Honors version of Foundations of Business & Management.

College/University: Carlow University (May be accepted as an elective at other institutions)**Course Equivalent/Credits:** BSM 103: Introduction to Business & Management / 3 credits**Cost:** \$75 per credit/\$225 (2023-24)**Registration Deadline:** See instructor for deadline**Requirement for credit:** Final grade of a C (71.5%) or better.**Summer Assignment:** No

**FOUNDATIONS OF BUSINESS
& MANAGEMENT****Credit Value: .5****(#5130)****Periods Per Week: 5****Semester: Either****Prerequisites: None****Open to Grades: 9, 10, 11, 12**

This course explores the world of business to learn about the wide range of business careers available to you. You will discover the basics of business decisions, international business, the banking system, how technology impacts business, types of businesses, small business management, and more. Projects and activities take a detailed look at marketing decisions, management and leadership, and individual career possibilities and their important roles in business and society.

*For a more challenging version of this class, that carries CHS weighting, consider taking Honors Business & Management.

SMALL BUSINESS MANAGEMENT**Credit Value: .5****(#5140)****Periods Per Week: 5**
Prerequisites: None**Semester: Either**
Open to Grades: 10, 11, 12

Do you want to be your own boss and own your own business? How about becoming a manager? Learn about how entrepreneurs start, manage, market, finance and make decisions for a small business. The creation and presentation of a fictitious company's business plan (abbreviated) is used to provide the opportunity to experience, first-hand, all of the necessary decisions for starting and running a small business. The resulting artifact may be used as a part of students' Career Readiness portfolio and help students prepare for the real world and their post high school education. Students will also present elevator speeches, Shark Tank-style. There are many different management styles: which style would you have?

MARKETING & ADVERTISING**Credit Value: .5****(#5115)****Periods Per Week: 5**
Prerequisites: None**Semester: Either**
Open to Grades: 9, 10, 11, 12

Have you ever seen the same ad on TikTok again and again? Why do *Air Pods* cost so much, is it because of quality or simply the brand name? Marketing & Advertising provides an overview of the four main elements of marketing: deciding on a good or service to sell, its price, where to sell it, and how to promote the product with a focus on current trends in advertising and social media platforms. This semester course will use case studies to explore why businesses choose to sell particular products, make branding and packaging decisions, and create a social media presence to reach customers. We will discuss advertising and promotional strategies in detail. Several projects including the creation of a Promotional Campaign will be an integral part of this course, creating a hands-on learning environment.

PERSONAL FINANCE**Credit Value: .5****(#5110)****Periods Per Week: 5**
Prerequisites: None**Semester: Either**
Open to Grades: 10, 11, 12

Enroll in the most useful class you could ever take! Learn how to organize your financial future in one semester. Personal Finance teaches how to make wise financial decisions, starting with creating a short-term financial goal (non-financial goals are accepted if you don't have a job). Topics covered include keeping and balancing your online checkbook, budgeting, analyzing credit opportunities, credit scores and reports, savings and investing basics, insurances, federal taxes, consumer skills, and more. These are essential "life skills" that young people often fail to establish in the early wealth-building years. A virtual simulation software is also utilized, providing the ability to make real life financial decisions.

ACCOUNTING 1

(#5000)

Period Per Week: 5
Prerequisites: None**Credit Value:** .5**Semester:** Either
Open to Grades: 9, 10, 11, 12

Did you know that Accounting is one of the fastest growing and highest paying fields in the country? If you are considering a career in business or becoming a small business owner, then this course is for you. Accounting 1 is a single semester course that will give you essential business skills, including a strong foundation of accounting fundamentals, the basics of financial analysis, record keeping, and financial reporting. Also, by using a connected system of online work papers and software applications, you will gain an understanding of accounting information systems.

Successful accounting students may pursue more advanced accounting skills by advancing through Accounting 2 & Honors Accounting 3 and may earn college credit.

ACCOUNTING 2

(#5005)

Periods Per Week: 5
Prerequisites: 70% or above in Accounting 1**Credit Value:** .5**Semester:** Either
Open to Grades: 9, 10, 11, 12

If you felt “balanced” in Accounting 1, then you should take this semester long course. A more in-depth exploration of accounting procedures and trends builds upon the knowledge gained in Accounting 1. In Accounting 2, students will learn to use Special Journals and analyze different transactions such as issuing stock, depreciation, and inventory management. Students will complete an Accounting Simulation that reviews the accounting cycle and allows students to perform daily procedures as they would in a real business setting. Accounting 2 provides a great opportunity for students to assess their interests in accounting and finance as a potential career. Successful accounting students may pursue more advanced accounting skills by advancing through Honors Accounting 3 and may earn college credit.

HONORS ACCOUNTING 3

(College in High School - Carlow)

(#5010)

Periods Per Week: 5
Prerequisites: 89% or above in Accounting 2**Credit Value:** .5**Semester:** Either
Open to Grades: 10, 11, 12

Honors Accounting 3 is perfect for the student who has acquired a strong interest in accounting or finance and plans to pursue one of these fields in college. Students will learn more in-depth accounting procedures for corporations such as uncollectible accounts, dissolutions of partnerships, and corporate financial statements. In addition, business simulations, internet projects, and online working papers will play an integral part of this class.

Students have the opportunity to take this course as a **College in High School** course and receive university /college credit upon successful completion of the course requirements.

College/University: Carlow University (May be accepted at other universities /colleges)
Course Equivalent/Credits: Carlow University ACC104 Introduction to Financial Accounting/ 3 credits
Cost: \$75 per credit/\$225 (2023-24)
Registration Deadline: See Teacher
Summer Assignment: No

MICROSOFT OFFICE APPLICATIONS 1**Credit Value: .5****(#5100)****Periods Per Week: 5**
Prerequisites: None**Semester: Either**
Open to Grades: 9, 10, 11, 12

Did you know that businesses, colleges, scientific fields, and other industries do not use Google Docs or Slides? Make your career in any occupation or industry and college easier and more successful with basic knowledge of Microsoft Word, Excel and PowerPoint, with an overview of Access. Microsoft Office Applications 1 is a hands-on course providing an introduction to office technology software using Microsoft 365. Students will also be exposed to concepts such as file management, computer and internet basics and internet research. Throughout the course students will create an array of projects from flyers and newsletters, to creating and formatting company spreadsheets, databases and multimedia presentations.

Completion of this course allows enrollment into an advanced level of this course, Microsoft Office Applications 2. Beyond that, taking Honors Microsoft Office Applications 3 is available to College in High School credit at LaRoche University.

MICROSOFT OFFICE APPLICATIONS 2**Credit Value: .5****(#5101)****Periods Per Week: 5**
Prerequisites: 60% or above in Microsoft Office Appl. 1**Semester: Either**
Open to Grades: 9, 10, 11, 12

This hands-on course will introduce more projects using Microsoft 365. Creating formal proposals and professional form letters will benefit students in the chosen career path. Advanced charts and formulas as well as creating amortization tables (information about paying back loans) in Excel will be explored. Why not learn how to make professional-looking PowerPoint presentations? Students will create presentations with web integration, advanced animations, charts, and more will also be taught as every business and college student must conduct presentations. Topics in Microsoft Publisher will also be covered on how to construct exciting publications, design creative newsletters, and make interesting tri-fold brochures.

Students earning an 89% or higher in Microsoft Office Applications 2 are eligible for college credit by moving on to Honors Microsoft Office Applications 3 (CHS).

MICROSOFT OFFICE APPLICATIONS 1 & 2**Credit Value: 1.0****(#5102)****Periods Per Week: 5**
Prerequisites: See above**Semester: Both**
Open to Grades: 9, 10, 11, 12

**HONORS MICROSOFT OFFICE
APPLICATIONS 3****Credit Value: .5****(College in High School - La Roche)
(#5103)****Periods Per Week: 5****Semester: Either****Prerequisites: 89% or above in Microsoft Office Appl. 2****Open to Grades: 10, 11, 12**

Honors Microsoft Office Applications 3 will introduce advanced projects that will be added to the student's portfolio. Some concepts explored include creating online forms, creating blog posts, using macros, multi-media presentations and advanced Internet skills. Students will work with more advanced concepts in Microsoft 365 to create personalized career documents for future use.

Students have the opportunity to take this course as a **College in High School** course through LaRoche University's Scholar program and receive college credit upon successful completion of the course requirements.

College/University: La Roche University (May be accepted at other universities /colleges)**Course Equivalent/Credits:** La Roche University ISTC1005 / 3 credits**Cost:** \$235 (2023-24)**Registration Deadline:** See Teacher**Summer Assignment:** No

WEB PAGE DESIGN**Credit Value: .5****(#5145)****Periods Per Week: 5****Semester: Either****Prerequisites: None****Open to Grades: 9, 10, 11, 12**

This course is designed as an introduction to web page design and will provide students with the basics of creating a personal web site using various online tools, the basics of HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets). Students will be introduced to the planning and designing of effective web pages, along with the concepts of enhancing their pages using text formatting, hyperlinks, image maps, forms, images, and other multimedia elements. At the end of this course students will have a fully functional personal multi page website. Prior knowledge of HTML or web design is not required.

Time will also be spent discussing topics such as the Internet and its impact on our lives, technological history, and careers related to the technology field.

HONORS WEB PAGE DESIGN**Credit Value: .5****(College in the High School - Pitt)****(#5148)****Periods Per Week: 5****Semester: Either****Prerequisites: Enrolled in an honors level course or
89% or above in Web Page Design****Open to Grades: 10, 11, 12**

Honors Web Page Design is a fast pace, college level introduction course to web page design. This course will provide a basic understanding of the methods and techniques of developing a simple to moderately complex Web site. Using the standard HTML and CSS, students will be instructed on creating and maintaining a simple web site. To further enhance the sites, Java Script, will be introduced. Finally, web site design and layout techniques as well as basic search engine analysis will be added to enhance the students practical design skills.

Students have the opportunity to take this course as a **College in High School** course and receive university /college credit upon successful completion of the course requirements.

College/University: University of Pittsburgh**Course Equivalent/Credits:** University of Pittsburgh CA0134 / 3 credits**Cost:** \$75 per credit/\$225 (2023-24)**Registration Deadline:** See Teacher**Summer Assignment:** No

MOBILE APPLICATIONS TECHNOLOGY**Credit Value: .5****(#5155)****Periods Per Week: 5****Semester: Either****Prerequisites: None****Open to Grades: 9, 10, 11, 12**

Have you ever wanted to create your own app? Smart phones and tablets have changed the way the world uses technology to communicate, conduct business, enjoy entertainment, and use educational tools. Students will use these skills to create live, functioning apps that will operate on mobile devices. In the first part of the course students will learn to use these powerful tools and to evaluate existing apps. After gaining an understanding of the technology, students will learn the steps of the app development cycle and basic programming language.

**ENGLISH
LANGUAGE ARTS**

ENGLISH LANGUAGE ARTS

ACADEMIC PLACEMENT

Course prerequisites are guidelines set for the purpose of placing students in the academic course, with the appropriate level of academic rigor. Please refer to pages 6 & 7 for school guidelines on academic placement. For appropriate recommendation, it is advised that students and parents consult with their current academic teacher and their assigned school counselor.

HONORS ENGLISH 9

(#0065)

Periods Per Week: 5

Prerequisites: 89% or above in English 8

Credit Value: 1.0

Semester: Full Year

Open to Grade: 9

Honors English 9 is a course designed for students with strong capabilities and motivation to excel in the field of academic English through a wide variety of literature in all phases of the English Language Arts program: reading, writing, speaking and listening, using journals, projects, technology, class discussions, research, and writing. Literary analysis will include tone, mood, point of view, figurative language, and other aspects of literature. This program consists of an in-depth approach to the basic curriculum. Students move at a fast pace; therefore, additional materials, novels, and concepts are introduced. A few prime focuses in this course will be an *Odyssey* unit focused on archetypes, a *Romeo and Juliet* unit focused on juxtaposition, a *Frankenstein* unit focused on morals, and a *Night* unit focused on the impact of silence. Throughout the year, there is a focus on a more in-depth approach to the basic 9th grade writing assignments focusing on paragraph development, using concrete details, correct word choice, supporting text/details with citations, effective transitions, and structured sentences. Throughout the 9th grade year, independent study is emphasized, and opportunities for creativity present themselves in writing assignments and dramatic presentations.

ENGLISH 9

(#0070)

Periods Per Week: 5

Prerequisites: 60% or above in English 8

Credit Value: 1.0

Semester: Full Year

Open to Grade: 9

English 9 is designed to introduce students to the expectations of high school English. Throughout the course, students will experience all phases of the English Language Arts program: reading, writing, speaking and listening. Units in this course may include Essentials of Literature, Heroics, Fate, and Perspectives. Writing assignments completed throughout the year focus on paragraph development, descriptive and concrete details, correct word choice, effective transitions, and structured sentences. Speaking and listening skills will be practiced daily. Grammar will be a part of the daily routine and reviewed weekly through varied activities. Library skills will be practiced through reports, projects, and/or research.

HONORS WORLD LITERATURE 10**Credit Value: 1.0****(#0050)****Periods Per Week: 5****Semester:****Full Year****Prerequisites: 80% or above in Honors English 9****Open to Grade:****10**

Honors World Literature 10 is a rigorous course designed for students with exceptional ability and a continuing interest in English Language Arts. Students explore various areas of writing and are required to complete several timed writings and formal research compositions. Students experience a continuing growth in writing styles and mechanics through conferencing, editing and revising. Throughout the year, students read, analyze, and interpret world literature representing many cultures. They study famous authors' works, lives, and times. History, geography, and art relevant to the literary works also are presented. Furthermore, student in Honors World Literature 10 participate in a rigorous vocabulary study to ensure sufficient preparation for the SAT. Viewing, speaking, creating and listening skills of students improve through involvement in Socratic Seminars, discussions, debates, lectures, group projects, and formal presentations.

WORLD LITERATURE 10**Credit Value: 1.0****(#0055)****Periods Per Week: 5****Semester:****Full Year****Prerequisites: 60% or above in English 9****Open to Grade:****10**

World Literature 10 is designed to move students toward mastery of the skills practiced in English 9. The course consists of four comprehensive units studied through the lens of World Literature: Elements of Tragedy, Culture, Conflict and Identity, The Maturing Hero, and Effects of Colonialism. For each unit, students will read and analyze a variety of thematically linked fiction and non-fiction texts. They will practice using text-based evidence in a variety of forums including both informal and formal writing assignments, class discussions, and oral presentations. An emphasis on conducting and conveying research is a part of each unit.

HONORS AMERICAN LITERATURE 11**Credit Value: 1.0****(#0035)****Periods Per Week: 5****Semester:****Full Year****Prerequisites: 80% or above in Honors World Lit. 10****Open to Grade:****11**

Honors American Literature 11 is designed for self-directed students who aim to develop mature critical reading, writing, and speaking skills. The focus of the course is a study of the American identity through a variety of reading and writing assignments. In addition to the study of full-length novels, poetry, and non-fiction, students are required to produce at least one research paper utilizing MLA citations.

AMERICAN LITERATURE 11**Credit Value: 1.0****(#0040)****Periods Per Week: 5****Semester:****Full Year****Prerequisites: 60% or above in World Lit. 10****Open to Grade:****11**

American Literature 11 will continue to move students toward mastery of the skills practiced in English 10. The course consists of four comprehensive units, which are all centered on the American identity. For each unit, students will read and analyze a variety of thematically linked fiction and non-fiction texts. They will practice using text-based evidence in a variety of forums including both informal and formal writing assignments, class discussions, and oral presentations. Research will also be a part of each unit.

HONORS ENGLISH LITERATURE 12**Credit Value: 1.0****(#0020)****Periods Per Week: 5****Semester:****Full Year****Prerequisites: 80% or above in Honors Amer. Lit. 11****Open to Grade:****12**

Honors English 12 is a rigorous course requiring a significant amount of reading, writing, and research for the purpose of preparing each student to pursue a higher education after high school. The course work will include a variety of fiction and nonfiction literary works organized into thematic units. In the first 9 weeks (and probably part of the second), George Orwell's *1984* will be the core text. We will focus on the theme of personal freedom as it relates to technology as well as our ability and willingness to think independently and to better understand where we get our information. At the conclusion of the *1984* unit, each student will write a 3–4-page APA style research paper. After we complete *1984* and the research paper, we will begin Unit 2 which will focus on two literary works in which both authors challenge the status quo as it applies to women's rights. The core texts for this unit will be Virginia Woolf's *A Room of One's Own* and Henrich Ibsen's *A Doll's House*. Unit 3, which will begin sometime during the third 9 weeks, will focus on the concept of leadership. Shakespeare's *Hamlet* will be the core text along with some select speeches delivered by Winston Churchill during World War II. Unit 4 will focus on satire and realism and how literature can influence the thinking of a society. The core texts will be Oscar Wilde's *The Importance of Being Earnest* as well as select short stories from James Joyce's *The Dubliners*. The core texts for each unit will be supplemented with nonfiction readings that relate in theme. Students will also analyze literary criticism of each core text to become accustomed to academic writing and its unique challenges.

ENGLISH LITERATURE 12**Credit Value: 1.0****(#0025)****Periods Per Week: 5****Semester:****Full Year****Prerequisites: 60% or above in American Lit. 11****Open to Grade:****12**

English Literature 12 is designed for students who plan on attending a two- or four-year college or university. The course consists of four comprehensive units: Nonconformity, Leadership and Power, Satire, and Heroism/Societal Values. For each unit, students will read and analyze a variety of thematically linked fiction and non-fiction texts. They will practice using text-based evidence in a variety of forums including both informal and formal writing assignments, class discussions, and oral presentations. A research project will also be a part of each unit.

PRACTICAL CAREER ENGLISH**Credit Value: 1.0****(#0030)****Periods Per Week: 5****Semester:****Full Year****Prerequisites: None****Open to Grade:****12**

Practical Career English offers students the opportunity to refine and improve personal reading, writing, and speaking skills necessary for career success. Students will be exposed to fiction and nonfiction literature and discover how it relates to society and to life. Emphasis will also be placed on writing, vocabulary, technology, and research.

**A.P. ENGLISH LANGUAGE
& COMPOSITION****Credit Value: 1.0****(#0010)****Periods Per Week: 5****Semester:****Full Year****Prerequisites: A.P. Criteria****Open to Grade:****11**

Advanced Placement English Language and Composition course gives students a college-level experience and the opportunity to earn college credit and/or advanced placement while still in high school. Students will explore a wide breadth of nonfiction texts and visual rhetoric from various historical periods and disciplines. Students learn to explore the rhetorical situation of the text, identify claims and evidence; develop a line of reasoning and commentary; and strategically use words, comparisons, and syntax to convey a specific tone or style in an argument. Additionally, students will explore the various modes of rhetoric in their writing assignments including narrative, process analysis, comparison and contrast, definition, division and classification, and cause and effect writing. Student essays are submitted in draft form and proceed through stages of rigorous revision aided by peers and the instructor. As a college course, an objective of English Language and Composition is for students to achieve mastery of writing in subsequent college courses and in their professional endeavors. Upon completion of this course, students should be able to read complex works with understanding and appreciation and to write prose that is advanced enough for mature readers. Taking the A.P. Examination is an expectation of the course.

A.P. Test Date: May 2025**Test Cost:** \$98 (2024)**Registration Deadline:** See Teacher**Summer Assignment:** Yes

**A.P. ENGLISH LITERATURE
& COMPOSITION****Credit Value: 1.0****(#0015)****Periods Per Week: 5****Semester:****Full Year****Prerequisites: A.P. Criteria****Open to Grade:****12**

A.P. English Literature and Composition is a college-level English course designed to focus on the critical reading of poetry, drama, and prose fiction written in or translated into English as well as scholarly written commentary about those works. In-class critical discussion will center on an author's techniques, style, and tone as well as thematic and archetypal concepts within the work. A variety of written assessments will assess the student's ability to form and defend ideas related to the literature studied. Active participation in the class is expected as a vital means of developing and testing a student's individual ideas. As a culmination, students are expected to take the Advanced Placement Literature and Composition examination, a national test given in May of each year that may allow the student to earn college credit.

A.P. Test Date: May 2025**Test Cost:** \$98 (2024)**Registration Deadline:** See Teacher**Summer Assignment:** Yes

ENGLISH LANGUAGE ARTS ELECTIVES

CREATIVE WRITING WORKSHOP 1

(#0370)

Periods Per Week: 5
Prerequisites: None

Credit Value: .5

Semester: Either
Open to Grades: 9, 10, 11, 12

Creative Writing Workshop will give students the opportunity to explore a variety of approaches to craft and style while developing their discipline as writers. Our class time will be devoted in part to a daily writing regime and guided explorations of styles and techniques in a variety of writing genres. Students will get opportunities and encouragement to share their writing with larger audiences through workshops, performance, and publication opportunities. We will read and discuss contemporary masters and their works of poetry, fiction, non-fiction, stage-plays, and film. By the end of this course students will have created a body of work that will be graded as a whole at the conclusion of the semester.

CREATIVE WRITING WORKSHOP 2

(#0375)

Periods Per Week: 5
Prerequisites: 60% or above in Creative Writing Workshop 1

Credit Value: .5

Semester: Either
Open to Grades: 9, 10, 11, 12

Creative Writing Workshop 2 will deepen and broaden the foundations established in Creative Writing Workshop. Students will have further opportunities to develop a variety of approaches to craft and style. We will delve further into editing, rewriting, and publication using several formats of writer's workshops. Our class time will be devoted in part to a daily writing regime and guided explorations of styles and techniques in a variety of writing genres. Students will be given further opportunities and encouragement to share their writing with larger audiences through workshops, performance, and publication opportunities. We will read and discuss contemporary masters and their works of poetry, fiction, non-fiction, stage-plays, and film. By the end of this course students will have edited and published at least one piece of writing and will have a portfolio which will be graded as a whole, at the conclusion of the semester.

THE LANGUAGE OF ACTIVISM

(#0385)

Periods Per Week: 5
Prerequisites: None

Credit Value: .5

Semester: Either
Open to Grade: 10, 11, 12

Language is a powerful tool for positive change and our nation's strength is exhibited through the language of activists who fought against the oppression and injustices of the past and those who continue the fight today to secure a better future. The *Language of Activism* course explores the role that literature, language, writing and the media have had in social justice movements throughout American history from the American Revolution, Abolition, Women's Rights, Labor, Civil Rights, Anti-War, LGBTQ+, to current-day activism. Students will gain an understanding of the role of writing and communication in bringing about social change and of how various social movements have impacted human history. Furthermore, students will be introduced to some of the nation's most influential activists and their idea and will draw comparisons to various social movements. Students will analyze primary sources including articles, letters, speeches, poetry, songs, photographs, and political cartoons while developing skills in critical thinking, close reading, public speaking, research, analysis, and writing. Finally, this learner-centered course will empower students to make choices about their own learning and to explore the content through Socratic Seminars and class discussions.

DRAMA/THEATER ARTS 1**Credit Value: .5****(#0400)****Periods Per Week: 5**
Prerequisites: None**Semester: Either**
Open to Grade: 9, 10, 11, 12

Drama/Theater Arts 1 students interested in the production, performance and perception of live theater will explore their dramatic skills through the Stanislavski Method of Acting. They will experiment with music, voice and movement, costumes and make-up, set design and technical production through individual scene work and improvisation. Students will also examine and reflect on other stage productions and write theater criticism based on those productions. Students will develop a complete and comprehensive study on the dramatic art and present a culminating activity in a live stage production.

*This course may require after school rehearsals.

DRAMA/THEATER ARTS 2**Credit Value: .5****(#0405)****Periods Per Week: 5**
Prerequisites: 60% or above in Drama/ Theater Arts 1**Semester: Either**
Open to Grades: 9, 10, 11, 12

Drama/Theater Arts 2 students who wish to continue their study of dramatic art through more specific acting scenes will more extensively work with music, voice and movement, costumes and make-up, set design and technical production. During this course, students will also actively explore contemporary and historical dramas, directing, production, production management, and voice-over acting through self-discovery, character studies, field trips, and guest-speakers. Students will continue to examine and reflect on other stage productions and write theater criticism.

*This course may require after school rehearsals.

JOURNALISM**Credit Value: .5****(#0360)****Periods Per Week: 5**
Prerequisites: None**Semester: Either**
Open to Grades: 9, 10, 11, 12

The primary focus of Journalism is to develop the writing and interpersonal skills required in any field of journalism from broadcast to print. Students will learn how to adapt their writing to a concise journalism style, conduct effective interviews, write a wide variety of stories (including news, features, opinions and sports) and use computer programs to design newspaper pages. Journalism begins by exposing students to the history of journalism and how it has helped shape our country from the Revolutionary War to today. Students will then learn the laws of journalism before engaging in debates over ethical issues that journalists deal with on a regular basis. Students will then start working on “nuts and bolts” of interviewing, writing, editing, etc.

Students will have the opportunity to interview many people from classmates to former students to teachers to administrators to local personalities such as athletes, politicians or media members. Journalism will culminate with a project in which students will create their own newspaper based entirely on stories they have written.

ADVANCED JOURNALISM/ NEWSPAPER**Credit Value: 1.0****(#0365)****Periods Per Week: 5****Semester: Full Year****Prerequisites: 60% or above in Journalism****Open to Grades: 10, 11, 12**

Students in Advanced Journalism will be in charge of the production of The Oracle, the student newspaper of the high school. The class will produce several print publications during the school year and students will also have the opportunity to publish stories online which will be posted to a website hosted by USA Today.

Students involved in Advanced Journalism will be expected to write stories, conduct interviews, peer edit/evaluate, design newspaper pages, take photographs, etc. Advanced Journalism is a class that will benefit students interested in any field of journalism, not just newspapers. The skills developed are required in all fields from broadcast to print.

*After-school time is required to meet deadlines.

PEOPLE SKILLS**Credit Value: .5****(#0380)****Periods Per Week: 5****Semester: Either****Prerequisites: None****Open to Grades: 10, 11, 12**

While it is difficult to define what “people skills” are, it is easy to identify people who may need to enhance their people skills. In this course students will learn to interact with other people effectively and become aware of how their own behavior impacts other people and the outcome of certain situations. The differences of purpose and motivation, personality, ethnic and religious variations, gender, class, and ability can all present social challenges. This course provides powerful ideas for preventing people problems, resolving conflict and building harmonious relationships, in school, at home, and in workplaces. Students will build skill and confidence to successfully communicate in verbal and non-verbal ways to advance leadership ability, interpersonal skills, problem-solving skills, and skills in conflict resolution.

YEARBOOK**Credit Value: 1.0****(#0359)****Periods Per Week: 5****Semester: Full Year****Prerequisites: 70% or above in current ELA course****Open to Grades: 9, 10, 11, 12**

Yearbook is a course designed to empower students in the production of the *Spectrum*, the Shaler Area High School yearbook. Throughout the course, students will learn about the history, purpose, and structure of yearbooks and will be responsible for the creation of the *Spectrum* from start to finish. Students will learn and incorporate many facets of journalism including interviewing, writing, editing, photography, layout and design, desktop publishing, business, and advertising. Students are faced with, and will be expected to manage, real life experiences from meeting deadlines, successfully working as a team, and engaging with the public in an unbiased and reliable manner. This course is sustained through hardworking and independent individuals. Students in Yearbook have the unique opportunity to capture the voice of Shaler Area High School in a single publication.

*After-school time is required to meet deadlines.

**FAMILY &
CONSUMER
SCIENCE**

FAMILY AND CONSUMER SCIENCE

FOODS

(#6046)

Periods Per Week: 5

Prerequisite: None

Credit Value: .5

Semester: Either

Open to Grades: 9, 10, 11, 12

This course is the place to start if you like to cook and eat! During this semester course, students will learn to survive in the kitchen by learning basic food preparation skills, reading recipes, using equipment, understanding nutrition, and trying new foods. Students will prepare fresh cookies, homemade pizzas, hot and tasty appetizers, fruits, desserts and much, much more. If you like to work in the kitchen or eat, this class is for you!

QUICK PREP FOODS

(#6047)

Periods Per Week: 5

Prerequisite: 60% or above in Foods

Credit Value: .5

Semester: Either

Open to Grades: 9, 10, 11, 12

In this course, you will learn how to prepare quick and appetizing meals. Effective cooking techniques will be utilized in food labs by using convenience methods and a variety of food preparation styles. Throughout the exploration of this class, you will practice proper etiquette, formal table setting, and experimentation with culinary skills. Take this class so you can learn to create delicious meals.

INTERNATIONAL FOODS

(#6048)

Periods Per Week: 5

Prerequisites: 60% or above in Foods

Credit Value: .5

Semester: Either

Open to Grades: 10, 11, 12

Imagine yourself preparing foods such as funnel cakes, egg rolls, homemade pasta, or Italian wedding soup. Take a culinary journey around the world by acquainting yourself with the influences of tradition, history, and the celebration of different customs. You will develop skills in the selection, preparation, and serving of food. Careers and occupations in the food industries will be explored. Come to class with a BIG appetite and enjoy!

GOURMET FOODS

(#6049)

Periods Per Week: 5

Prerequisite: 60% or above in Foods

Credit Value: .5

Semester: Either

Open to Grades: 10, 11, 12

Experience gourmet foods with teen friendly recipes. This class focuses on gourmet food preparation, pastries, cake decorating, and working with specialty foods. We will make gourmet pizza, gourmet pasta and reproduce copycat recipes from your favorite restaurants. If you are interested in a career in the culinary industry, or simply enjoy eating or preparing fine food, then this is the course for you!

TITAN CAFÉ**(#6050)****Periods Per Week: 5****Prerequisites: 60% or above in Foods****Credit Value: .5****Semester: Either****Open to Grades: 10, 11, 12**

Have you ever wondered what it is like to run your own restaurant? Do you wonder what goes on behind the scenes? Then this is the class for you. You will be learning about food etiquette, meal planning concepts, and preparation skills. Not only will you be preparing full course meals, you will explore event planning and food related careers.

TEEN LIVING**(#6035)****Periods Per Week: 5****Prerequisites: None****Credit Value: .5****Semester: Either****Open to Grades: 9, 10**

Explore your personality and how it relates to your world. We will focus on relationships: family, friends and dating. Topics to be covered include student's role as a family member, making good choices, peer pressure, conflict resolution, anger management, goal setting, and deceptive advertising and how it effects purchasing decisions.

THE REAL WORLD**(#6040)****Periods Per Week: 5****Prerequisites: None****Credit Value: .5****Semester: Either****Open to Grades: 11, 12**

Could you survive on your own? Do you have the basic skills to make it in the "Real World"? Healthy experiences are the key to success! You will search for an apartment and furnish it. Explore dorm living. Bank accounts, insurance policies, loans, and credit cards will be explored as well as working with a budget and finances. You will navigate your way through obtaining a car (new or used) and find your way around the country. Basic cooking terms and procedures will be reviewed and simple meals will be prepared. Get ready to be on your own!

INTERIOR DESIGN STUDIO**(#6056)****Periods Per Week: 5****Prerequisites: None****Credit Value: .5****Semester: Either****Open to Grades: 9, 10, 11, 12**

This course explores design topics that include decorating, furnishings, color theory, floor plans, and architecture. Students will create hands-on projects, presentation boards, and simple sketching techniques. Class topics will expose students to a wide variety of professional careers. The ability to think creatively and the focus on design details will be emphasized.

CREATIVE SEWING LAB 1**(#6100)****Periods Per Week: 5****Prerequisites: None****Credit Value: .5****Semester: Either****Open to Grades: 9, 10, 11, 12**

This semester course is an introduction to various sewing equipment, sewing construction techniques, patterns, and fabrics. Students will gain confidence and ability using a sewing machine to complete introductory products. Additional projects based on their own interests and creativity will then be selected. Various DIY projects may also be explored and created.

CREATIVE SEWING LAB 2**Credit Value: .5****(#6105)****Periods Per Week: 5****Semester:****Either****Prerequisites: 60% or above in Creative Sewing Lab 1****Open to Grades:****9, 10, 11, 12**

Use your time creatively and productively while learning to use today's new sewing techniques and equipment. Students will incorporate their skill level along with their knowledge of textiles and clothing quality into their selection of individualized projects. Projects may include clothing items and accessories such as tote bags and purses, home decorating projects, as well as simple quilts. As in level 1, DIY projects may also be explored.

APPAREL MANUFACTURING**Credit Value: .5****(#6110)****Periods Per Week: 5****Semester:****Either****Prerequisites: 70% or above in Creative Sewing Lab 1 or Fashion****Open to Grades:****9, 10, 11, 12**

This class is designed to teach you how to refine the skills you learned in your beginner sewing class or Fashion class. Students will continue to learn about pattern layout, fabric cutting, garment construction, and advanced finishing techniques for clothing construction.

FASHION**Credit Value: .5****(#6120)****Periods Per Weeks: 5****Semester:****Either****Prerequisites: None****Open to Grade:****9, 10, 11, 12**

Introducing students to the fast-growing world of fashion is the basis of this course. We will explore exciting fashion careers and world-famous designers. Class projects will consist of coordinating simple fashion accessories, researching the decades of fashion, and creating a portfolio of design trends and fads. Students will also be introduced to sewing equipment, sewing fundamentals, fabric and patterns and professional construction techniques. These skills provide the foundation for a wide range of careers available in the fashion industry.

CHILD DEVELOPMENT**Credit Value: .5****(#6000)****Periods Per Week: 5****Semester:****Either****Prerequisites: None****Open to Grades:****9, 10, 11, 12**

This course is an exploration of the development of the child from infancy to school age, physically, emotionally, socially, and intellectually. By examining these aspects of growth and development, and the way in which heredity and environment influence them, the students can better understand the responsibilities and challenges of parenting and childcare. We will evaluate toys and the importance of play in helping children socialize and develop fine and gross motor skills. We will also focus on the importance of literacy skills in the healthy development of children. **This class must be taken before signing up to work in our preschool lab.**

PRESCHOOL LAB 1**Credit Value: .5****(#6005)****Periods Per Week: 5****Semester: Either****Prerequisites: 80% or above in Child Development****Open to Grades: 10, 11, 12**

This course allows the student with a special interest in working with children the opportunity to pursue the advanced study of children in a practical working environment. The students will be involved with the planning and preparation of an actual preschool, the Shaler Area Preschool for 3, 4, and 5yr. olds. Assigned job rotations will allow them to experience all aspects of the operation of the preschool. They will observe and work with the children, seeing firsthand, some of the developmental milestones studied in Child Development.

PRESCHOOL LAB 2**Credit Value: .5****(#6010)****Periods Per Week: 5****Semester: Either****Prerequisites: 80% or above in Preschool Lab 1****Open to Grade: 11, 12**

This course is designed for the students who wish to be part of the operation of a working preschool. They will have more opportunities to communicate with preschoolers, their parents, and community members as they learn about planning theme units and guiding preschoolers safely through daily routines. They will join with Lab 1 and Advanced Preschool Lab to plan learning activities that will encourage the preschoolers' development.

ADVANCED PRESCHOOL LAB**Credit Value: .5****(College in High School - Carlow)****(#6015)****Periods Per Weeks: 5****Semester: Either****Prerequisites: 80% or above in Preschool Lab 2****Open to Grade: 11, 12**

Advanced Preschool Lab is designed for the student with an educational career in mind. Students will take part in all aspects of operating a preschool, from creating positive and unique learning experiences for the children, to room arrangement, administrative jobs, operating within a budget, and the day-to-day management of childcare facilities. Focus will be on assuming a leadership role in the operation of the preschool. Students have the opportunity to take this course as a College in High School course and receive university/college credit upon successful completion of the course requirements.

College/University: Carlow University (May be accepted as an elective at other institutions)
Course Equivalent/Credits: EC 200: Child Development: Birth to 5 / 3 credits
Cost: \$75 per credit/\$225 (2023-24)
Registration Deadline: See instructor for deadline
Requirement for credit: Final grade of a C (71.5%) or better.
Summer Assignment: No

**MATHEMATICS
DEPARTMENT**

MATHEMATICS

ACADEMIC PLACEMENT

Course prerequisites are guidelines set for the purpose of placing students in the academic course, with the appropriate level of academic rigor. Please refer to pages 6 & 7 for school guidelines on academic placement. All incoming ninth grade students must score Proficient or higher on the Keystone Algebra 1 or Shaler Area High School Algebra Proficiency Exam for placement in any course beyond Algebra 1. For appropriate recommendation, it is advised that students and parents consult with their current academic teacher and their assigned school counselor.

ESSENTIALS OF ALGEBRA 1

(#2003)

Periods Per Week: 5

Prerequisites: Completed Math 8

Credit Value: 1.0

Semester: Full Year

Open to Grades: 9

Essentials of Algebra 1 is designed to study the structure of the real number system and the application of the properties of real numbers in problem solving. Included in this study will be a review of the basic operations with directed numbers. Methods are developed for the solution of linear equations and inequalities. These methods are then applied to the solution of various types of statement problems. The course introduces polynomials, functions, and graphing. Techniques for solving linear equations in two variables are also studied. This course will emphasize operations and linear equations & inequalities and linear functions & data organizations while using some technology to aid in their understanding. This course is intended for students entering high school who are not Algebra 1 ready. A scientific calculator is required.

ALGEBRA 1

(#2005)

Periods Per Week: 5

Prerequisites: Math 8 or 60% or higher in
Essentials of Algebra 1

Credit Value: 1.0

Semester: Full Year

Open to Grades: 9, 10

Algebra 1 is designed to study the structure of the real number system and the application of the properties of real numbers in problem solving. Methods are developed for the solution of linear equations and inequalities. There will be an introduction to solving and graphing quadratic equations. These methods are then applied to the solution of various types of statement problems. The course introduces polynomials, functions and graphing. Techniques for solving linear equations in two variables are also studied. This course will emphasize operations and linear equations & inequalities and linear functions & data organizations while using some technology to aid in their understanding. A scientific calculator is required.

GEOMETRY FUNDAMENTALS**Credit Value: 1.0**

(#2070)

Periods Per Week: 5
Prerequisites: 60% or above in Algebra 1**Semester:** Full Year
Open to Grades: 10, 11, 12

Throughout Geometry Fundamentals students will explore geometric concepts while reinforcing algebraic skills. The content areas of this course include the study of polygons, lines, angles, circles, perimeter, area, volume, congruence, and similarity. Continuing themes will incorporate problem solving applications, cooperative learning activities, and appropriate use of technology.

GEOMETRY**Credit Value: 1.0**

(#2065)

Periods Per Week: 5
Prerequisites: 70% or above in Algebra 1**Semester:** Full Year
Open to Grades: 9, 10, 11

Throughout Geometry, students will explore the theory of 2-dimensional and 3-dimensional space. The content areas of this course include the study of polygons, lines, angles, circles, perimeter, area, volume, congruence, and similarity. Continuing themes will incorporate problem solving applications, cooperative learning activities, and appropriate use of technology. A scientific calculator is recommended for success in this course.

HONORS GEOMETRY**Credit Value: 1.0**

(#2060)

Periods Per Week: 5
Prerequisites: 80% or above in Algebra 1 8
or 89% or above in Algebra 1**Semester:** Full Year
Open to Grade: 9, 10

Honors Geometry is a formalized study of mathematical models of the physical world using deductive methods. The course includes a rigorous study of proofs, angles and triangles, congruencies, geometric inequalities, parallel lines, polygonal areas, similarities, circles and spheres, volumes of solids, and trigonometry as related to geometry. The content in Honors Geometry is like that of Geometry but is covered in greater depth and detail to prepare students for the next honors level course. Students will be expected to solve problems with and without the use of technology. A scientific calculator is required.

ALGEBRA 2 FUNDAMENTALS**Credit Value: 1.0**

(#2020)

Periods Per Week: 5
Prerequisites: 60% or above in Geometry
Fundamentals**Semester:** Full Year
Open to Grades: 11, 12

Algebra 2 Fundamentals begins with a review of the basic Algebraic concepts. Emphasis throughout the course is on understanding the algebraic properties of the real number system, and on relating these properties to the solution of equations and inequalities of the first and second degree in one and two variables. Polynomials and exponential functions are also studied. Problem-solving skills and the ability to analyze statement problems are introduced within each topic. The student will be expected to use technology to aid in their understanding of the concepts contained in the course.

ALGEBRA 2

(#2025)

Periods Per Week: 5
Prerequisites: 70% or above in Geometry or
80% or above in Algebra 2
Fundamentals

Credit Value: 1.0

Semester: Full Year
Open to Grades: 9, 10, 11, 12

Emphasis throughout the Algebra 2 course is on understanding the algebraic properties of the real number system, and on relating these properties to the solution of quadratic and higher order polynomial equations. Polynomials, exponential and logarithmic functions are also studied. Problem-solving skills and the ability to analyze statement problems are stressed within each topic. Students will be expected to be able to solve problems with and without the use of technology. A graphing calculator is required. A TI-83, TI-83+, TI-84, or TI-84+ is the recommended calculator and will be used by the instructor.

HONORS ALGEBRA 2

(#2030)

Periods Per Week: 5
Prerequisites: 80% or above in Honors Geometry
or 80% or above in Geometry 8

Credit Value: 1.0

Semester: Full Year
Open to Grade: 9, 10, 11

Honors Algebra 2 continues the function approach to Algebra. Emphasis throughout the course is on differentiating and formulating the algebraic properties of the real and complex number systems, and on relating these properties to the solutions of equations and inequalities of multiple degrees in two or more variables. Polynomials, exponential and logarithmic functions, and an introduction to basic trigonometry concepts and circular functions are also studied. Problem-solving skills and the ability to analyze statement problems are stressed within each topic. The content in Honors Algebra 2 focuses on constructing, evaluating, and defending the topics. A graphing calculator is required, and the following are recommended: A TI-83, TI-83+, TI-84, or TI-84+.

ALGEBRA 3

(#2075)

Periods Per Week: 5
Prerequisites: 70% or above in Algebra 2
and Proficiency on the Keystone
Algebra 1 Exam

Credit Value: 1.0

Semester: Full Year
Open to Grades: 11, 12

Algebra 3 is a course that will provide you with the opportunity to continue in a challenging academic mathematics environment that will help you refine various skills for success in future mathematics courses. Students will reinforce their skills in linear systems of equations, factoring, polynomials, transformations, matrices, quadratic functions, and radicals. They will also advance their studies of Algebra 2 concepts by exploring more depth of logarithmic and exponential functions and models. Algebra 3 will continue the study of advanced mathematics concepts relating to Algebra II and Precalculus such as Non-Linear Systems of Equations, Parametric Equations and Sequences and Series. A graphing calculator is required. A TI-83, TI-83+, TI-84, or TI-84+ is the recommended calculator and will be the calculator used by the instructor.

PRECALCULUS

(#2080)

Periods Per Week: 5
Prerequisites: 80% or above in Algebra 2 or
70% or above in Algebra 3
and Proficiency on the Keystone
Algebra 1 Exam

Credit Value: 1.0

Semester: Full Year
Open to Grades: 10, 11, 12

Precalculus will address topics in Advanced Algebra, Analytical Geometry (a unit consisting of conics; parabolas, hyperbolas, and ellipses) and Trigonometry. Linear, quadratic, polynomial, exponential, and logarithmic equations will be solved analytically and graphically; additionally, properties of each are studied. Trigonometry encompasses the basic functions and their graphs, trig identities, inverse trig functions, and solving trig equations. A unit on complex numbers will also be covered. Problem solving, cooperative learning, and appropriate use of technology are continuing themes in this course. A graphing calculator is required (TI-83, TI-83+, TI-84, or TI-84+), and will be used by the instructor to model and teach and integrate technological concepts within the class.

HONORS PRECALCULUS

(#2085)

Periods Per Week: 5
Prerequisites: 80% or above in Honors Algebra 2
and Proficiency on the Keystone
Algebra 1 Exam

Credit Value: 1.0

Semester: Full Year
Open to Grade: 10, 11, 12

Honors Precalculus is a rigorous course designed for the student, typically a sophomore or junior, who intends to take an advanced calculus course in the next year. This course provides a strong foundation of functions, trigonometry, discrete mathematics, and data analysis. Topics that are exclusive to the honors level of Precalculus are an introduction to calculus, including the study of limits and basic derivatives, and parametric equations. Students will be expected to show understanding of trig functions and graphs with and without the calculator. Problem solving is required and problems are approached algebraically and supported graphically or approached graphically and supported algebraically. A graphing calculator is required. A TI-83, TI-83+, TI-84, or TI-84+ is the recommended calculator as these will be the calculators used by the instructor.

BUSINESS CALCULUS

(College in High School - University of Pittsburgh)
(#2090)

Credit Value: 1.0

Periods Per Week: 5

Semester:

Full Year

Prerequisites: 60% or above in Honors Precalculus
or 70% or above in Precalculus
and Proficiency on the Keystone
Algebra 1 Exam

Open to Grade:

11, 12

Calculus employs the fundamental tools of algebra and geometry to study the topics of limits, continuity, derivatives, and integration through evaluation and application. Problems will be approached both algebraically and graphically while placing an emphasis on application of basic formulas and understanding concepts as opposed to problem solving. Proficiency in algebraic manipulation is essential for success in Calculus, although fundamentals of algebra are reviewed as necessary throughout the course. This course is designed for students intending to continue their education in the areas of business, economics, and the social sciences. A graphing calculator is required. A TI-83, TI-83+, TI-84, or TI-84+ is the recommended calculator as these will be the calculators used by the instructor.

This course follows the University of Pittsburgh Math 120 curriculum. Students can elect to take this course for 4 college credits through the University of Pittsburgh. **Students choosing to take this course for university credit must pass the University of Pittsburgh placement exam.** The initial cost of the exam is \$25 per student. This exam is an online test that may be taken up to 5 times to achieve a passing score that is set by Pitt. Students who do not pass the placement test, may take the course for Shaler Area course credit, but will not be eligible for college credits. Students taking the placement exam and completing necessary remediation work to improve their math skills will be able to use this in lieu of the summer assignment requirement that is provided by the math department.

College/University:	University of Pittsburgh (May be accepted at other universities/colleges)
Course Equivalent/Credits:	University of Pittsburgh Math 120 / 4 credits
Cost:	\$75 per credit/\$300 per course (2023-24)
Registration Deadline:	See Teacher
Summer Assignment:	No

A.P. CALCULUS AB

(College in High School - University of Pittsburgh)

(#2100)

Periods Per Week: 5

Prerequisites: A.P. Criteria

Credit Value: 1.0

Semester: Full Year

Open to Grade: 11, 12

Calculus AB is a first course in a single-variable calculus that uses algebra, geometry, and trigonometry skills to study limits, derivatives, continuity, and integration. These topics are applied to algebraic, trigonometric, logarithmic, exponential, and inverse trigonometric functions. Topics from a second course in Calculus are covered including derivatives of parametric equations and methods of integration. A graphing calculator is required. A TI-83, TI-83+, TI-84, or TI-84+ is the recommended calculator and will be used by the instructor.

Students who enroll in this course may take the Advanced Placement Calculus AB examination given in May of each school year. Based on the results of this examination, students may qualify for college credit and/or advanced college standing. A student registered for this course may also enroll in the University of Pittsburgh's Math 0220 course and earn 4 college credits. A student wishing to take A.P. Calculus BC for Math 0230 credit must score a 4 or 5 on the AP Calculus AB exam or successfully complete the University of Pittsburgh's Math 0220 with a C or better as their university grade.

Students choosing to take this course for university credit must pass the University of Pittsburgh placement exam. The initial cost of the exam is \$25 per student. This exam is an online test that may be taken up to 5 times to achieve a passing score that is set by Pitt. Students who do not pass the placement test, may take the course for Shaler Area course credit, but will not be eligible for college credits. Students taking the placement exam and completing necessary remediation work to improve their math skills will be able to use this in lieu of the summer assignment requirement that is provided by the math department.

College/University: University of Pittsburgh (May be accepted at other universities/colleges)
Course Equivalent/Credits: University of Pittsburgh Math 0220 / 4 credits
Cost: \$75 per credit/\$300 per course (2023-24)
Registration Deadline: See Teacher
Summer Assignment: Yes

A.P. Test Date: May 2025
Test Cost: \$98 (2024)
Registration Deadline: See Teacher
Summer Assignment: Yes

A.P. CALCULUS BC**Credit Value: 1.0****(College in High School - University of Pittsburgh)****(#2105)****Periods Per Week: 5****Semester:****Full Year****Prerequisites: A.P. Criteria****Open to Grade:****12**

Calculus BC is a second course in a single-variable calculus that includes a review of the topics of Calculus AB and/or Honors Calculus. Calculus BC provides a deeper understanding of the concepts of limits, continuity, derivatives, and integrals, including the fundamental theorem of calculus. Topics include derivatives and integrals of algebraic, trigonometric, logarithmic, exponential, and inverse trigonometric functions, advanced integration techniques, applications of integration, indeterminate forms, improper integrals, infinite sequences, and series, parametric, polar, vector functions, and differential equations. Graphing calculators are required. A TI-83, TI-83+, TI-84, or TI-84+ is the recommended calculator and will be the calculator used by the instructor.

Students who enroll in this course may take the Advanced Placement Calculus BC examination given in May of each school year. Based on the results of this examination, students may qualify for college credit and/or advanced college standing. Students may also elect to take this course for Math 0230 credit through the University of Pittsburgh's College in High School program. The course would give them 4 credits in a Calculus 2 level college course.

College/University: University of Pittsburgh (May be accepted at other universities/colleges)**Course Equivalent/Credits:** University of Pittsburgh Math 0230 / 4 credits**Prerequisite:** C or higher in Math 0220 or 4/5 score on AP Calculus AB Exam**Cost:** \$75 per credit/\$300 per course (2023-24)**Registration Deadline:** See Teacher**Summer Assignment:** Yes**A.P. Test Date:** May 2025**Test Cost:** \$98 (2024)**Registration Deadline:** See Teacher**Summer Assignment:** Yes

HONORS PROBABILITY & STATISTICS

Credit Value: 1.0

(College in High School - University of Pittsburgh)
(#2145)

Periods Per Week: 5

Semester: Full Year

Prerequisites: *89% or above in Algebra 2 or 3 or
*80% or above in Honors Algebra 2 or
*60% or above in Precalculus or
Honors Precalculus
*and Proficiency on the Keystone
Algebra 1 Exam

Open to Grades: 10, 11, 12

This course teaches methods of descriptive and inferential statistics. Topics include data collection and description, probability, hypothesis testing, correlation and regression, the analysis of variance, and contingency tables (chi square). This will provide the necessary foundation so statistical methods can be applied to sample data to determine if the difference is due to chance or some other factor. Students who complete this course will be able to conduct their own analysis of standard one-sample or two-sample data sets, follow statistical reasoning and read statistical reports with understanding. Students will learn how to read statistical software outputs and use statistical computer programs.

A graphing calculator is required. A TI-84 or TI-84+ is the recommended calculator and will be used by the instructor. Students will have the opportunity to take this as a four-credit course in the University of Pittsburgh's College in High School Program.

College/University: University of Pittsburgh (May be accepted at other universities/colleges)
Course Equivalent/Credits: University of Pittsburgh STAT 0200 / 4 credits
Cost: \$75 per credit/\$300 per course (2023-24)
Registration Deadline: See Teacher
Summer Assignment: Yes

MATH ELECTIVES

COMPUTER SCIENCE – Python

Credit Value: 0.5

(#2110)

Periods Per Week: 5

Semester: Either

**Prerequisites: *80% or above in Algebra 1 or
Geometry
*70% or above in Honors Geometry
*or currently enrolled in Honors
Algebra 2, Algebra 3, Precalculus,
Honors Precalculus, Honors Probability
and Statistics or any Calculus course**

Open to Grades: 9, 10, 11, 12

Computer Science-Python is the study of elementary computer programming techniques with the Python language and mathematical models. To achieve this goal, the following topics will be studied: algorithms and flowcharts, numeric and string variables, output formatting, I/O, decision making, repetition with loops, and functions. The student will demonstrate his understanding of these topics by interpreting and writing programs in the Python language. Other methods of evaluation will be used as directed by the instructor.

HONORS COMPUTER SCIENCE- Python

Credit Value: 0.5

(College in High School - University of Pittsburgh)

(#2115)

Periods Per Week: 5

Semester: Either

**Prerequisites: 80% or above in Computer Science
Python**

Open to Grades: 9, 10, 11, 12

Honors Computer Science-Python is an elective designed to introduce students to more advanced topics of programming in the Python language. This course will cover file processing, error and exception handling, lists, sets, dictionaries, and object-oriented programming. This course will offer students a good exposure to the world of computer programming and is recommended for students interested in business, mathematics, or science fields of study. Students will be given the opportunity to take this course as a four-credit course in the University of Pittsburgh's College in High School Program.

College/University: University of Pittsburgh (May be accepted at other universities/colleges)

Course Equivalent/Credits: University of Pittsburgh CS 0012 / 4 credits

Cost: \$75 per credit/\$300 per course (2023-24)

Registration Deadline: See Teacher

Summer Assignment: No

COMPUTER SCIENCE – Java**Credit Value: 0.5****(#2120)****Periods Per Week: 5****Semester: Either****Prerequisites : *80 % or above in Algebra 1
Geometry
*70% or above in Honors Geometry
*Or currently enrolled in Honors
Algebra 2, Algebra 3, Precalculus,
Honors Precalculus, Honors Probability
and Statistics, or any Calculus course****Open to Grades: 9, 10, 11, 12**

Computer Science 1- Java is the study of elementary computer programming techniques with the Java programming language, and mathematical models. In order to achieve this goal, the following topics will be studied: algorithms and flowcharts, system commands and program statements, numeric and string variables, output format. The student will demonstrate his understanding of these topics by interpreting and writing programs in the Java language. Other methods of evaluation will be used as directed by the instructor.

HONORS COMPUTER SCIENCE – Java**Credit Value: 0.5****(College in High School - University of Pittsburgh)****(#2125)****Periods Per Week: 5****Semester: Either****Prerequisites: 80% or above in
Computer Science – Java****Open to grades: 9, 10, 11, 12**

Honors Computer Science JAVA is an elective designed to introduce students to the fundamentals of programming in the JAVA language. This course will cover variables and constants, math operations, screen and string I/O, decision-making, loops, error and exception handling, classes, arrays, and object-oriented programming. This course will offer students a good exposure to the world of computer programming and is recommended for students interested in business, mathematics, or science fields of study. Students will be given the opportunity to take this course as a three-credit course in the University of Pittsburgh's College in High School Program.

College/University: University of Pittsburgh (May be accepted at other universities/colleges)**Course Equivalent/Credits:** University of Pittsburgh CS 0007 / 3 credits**Cost:** \$75 per credit/\$225 per course (2023-24)**Registration Deadline:** See Teacher**Summer Assignment:** No

A.P. COMPUTER SCIENCE A
(#2130)

Periods Per Week: 5
Prerequisites: A.P. Criteria

Credit Value: 1.0

Semester: Full year
Open to Grade: 10, 11, 12

The third Java course will include programming methodology, features of programming languages, data structures (linear lists, stacks, and queues), algorithms (searching and sorting), recursion, inheritance, and object-oriented programming including classes, templates, and modularity. Students will advance their techniques learned in their first Java course and complete advanced programming projects.

A.P. Test Date: May 2025
Test Cost: \$98 (2024)
Registration Deadline: See Teacher
Summer Assignment: No

**MUSIC
DEPARTMENT**

MUSIC

TREBLE CHORUS

(#8510)

Periods Per Week: 5
Prerequisites: None

Credit Value: 1.0

Semester: Full Year
Open to Grade: 9

Treble Chorus is a cultivating ensemble that introduces proper vocal technique combined with repertoire that spans from classical to modern day. This full year course teaches students the basics of proper singing technique, elements of choral ensemble performances, strategies for reading musical notations, sight-reading and proper stage and concert etiquette. Students enrolled in Treble Chorus are required to participate in all performances during and after-school and are eligible to participate in the annual Performing Arts adjudication trip. This course meets on a daily basis with the opportunity for students to audition and apply for the Junior PMEA Choir.

CONCERT CHOIR

(#8500)

Periods Per Week: 5
Prerequisites: None

Credit Value: 1.0

Semester: Full Year
Open to Grades: 9, 10, 11, 12

Concert Choir is a large ensemble made up of musicians in grades 9-12 who have an interest in performing repertoire that represents a variety of cultures, languages, and time periods. This full year course expands upon proper singing technique, elements of choral ensemble performances, strategies for reading musical notations, sight-reading and proper stage and concert etiquette. Students enrolled in Concert Choir are required to participate in all performances during and after-school and are eligible to participate in the annual Performing Arts adjudication trip. This course meets on a daily basis with the opportunity for students to audition and apply for the PMEA Choirs.

HONORS CHAMBER CHOIR

(#8505)

Periods Per Week: 5
Prerequisites: Audition with Director

Credit Value: 1.0

Semester: Full Year
Open to Grades: 9, 10, 11, 12

Honors Chamber Choir is an audition only choir that consists of students from grades 9-12 who have an interest in performing advanced SATB choral music. This full year course explores a variety of repertoire, spanning various origins and time periods. Students enrolled will refine advanced principles of proper singing technique, elements of choral ensemble performance, strategies for reading musical notation, the application of music theory concepts, and proper stage and concert etiquette. Students enrolled in Honors Chamber Choir are required to participate in all performances during and after-school and are eligible to participate in the annual Performing Arts adjudication trip. This course meets on a daily basis with the opportunity for students to audition and apply for the PMEA Choirs.

HONORS WOMEN'S CHORUS**Credit Value: 1.0****(#8535)****Periods Per Week: 5****Semester:****Full Year****Prerequisites: Audition with Director****Open to Grades:****9, 10, 11, 12**

Honors Women's Chorus is an all-female, audition only choir that consists of students from grades 9-12 who have an interest in performing advanced SSA and SSAA choral music. This full year course explores a variety of repertoire, spanning various origins and time periods. Students enrolled will refine advanced principles of proper singing technique, elements of choral ensemble performance, strategies for reading musical notation, the application of music theory concepts, and proper stage and concert etiquette. Students enrolled in Honors Women's Chorus are required to participate in all performances during and after-school and are eligible to participate in the annual Performing Arts adjudication trip. This course meets on a daily basis with the opportunity for students to audition and apply for the PMEA Choirs.

MARCHING BAND - GRADES 8-12

The Marching Band affords music students the opportunity to participate in a musical organization which explores march, patriotic, show, swing, and pop styles of music adapted to marching techniques. This band performs at football half-time shows, civic and community parades and special marching events. Instrumental members are required to participate in any Music Department band, choir, or orchestral performing ensemble.

Rehearsals for Marching Band will be held two weeks prior to the opening of school and two after-school rehearsals per week will be held during the marching season. Students participating in Marching Band are eligible to participate in the annual Performing Arts adjudication trip.

JAZZ ENSEMBLE II**Credit Value: 1.0****(#8600)****Periods Per Week: 5****Semester:****Full Year****Prerequisites: Audition with Director****Open to Grades:****9, 10, 11, 12**

Jazz Ensemble II is an ensemble comprised of four sections of instruments: trumpet, trombone, saxophone, and rhythm (piano, drums, lead and bass guitar) who have an interest in performing rhythmic and improvisatory style of jazz, blues and rock. Students enrolled in this full year course are required to participate in all performances during and after-school and the annual Performing Arts adjudication trip. This course meets on a daily basis with the opportunity for students to audition and apply for the PMEA and AV Honors Bands.

HONORS JAZZ ENSEMBLE I**Credit Value: 1.0****(#8610)****Periods Per Week: 5****Semester:****Full Year****Prerequisites: Audition with Director****Open to Grades:****9, 10, 11, 12**

Honors Jazz Ensemble I is an advanced jazz ensemble comprised of four sections of instruments: trumpet, trombone, saxophone, and rhythm (piano, drums, lead and bass guitar) who have an interest in performing advanced rhythmic and improvisatory styles of jazz, blues and rock. Honors Jazz Ensemble I performs throughout the school district and community. Students enrolled in this full year course are required to participate in all performances during and after-school and are eligible to participate in the annual Performing Arts adjudication trip. This course meets on a daily basis with the opportunity for students to audition and apply for the PMEA and AV Honors Bands.

SYMPHONIC BAND

Credit Value: 1.0

(#8620)

Periods Per Week: 5

Semester:

Full Year

Prerequisites: Recommend Previous Band Experience

Open to Grades:

9, 10, 11, 12

Symphonic Band is a cultivating ensemble that introduces proper instrumental technique combined with repertoire that spans from classical to modern day. This full year course teaches students the basics of proper instrumental technique, elements of ensemble performances, strategies for reading musical notations, sight-reading, technical exercises, scales, etudes, solo technique and proper stage and concert etiquette. Students enrolled in Symphonic Band are required to participate in all performances during and after-school and the annual Performing Arts adjudication trip. Students must practice daily. This course meets on a daily basis with the opportunity for students to audition and apply for PMEA and AV Honors Bands.

HONORS WIND ENSEMBLE

Credit Value: 1.0

(#8650)

Periods Per Week: 5

Semester:

Full Year

Prerequisites: Audition with Director

Open to Grades:

9, 10, 11, 12

Honors Wind Ensemble is an audition only band that consists of students from grades 9-12 who have an interest in performing advanced instrumental music. A variety of repertoire, spanning various origins and time periods, will be covered in this full-year course. Students will be exposed to major works from the band repertoire, including selections from the classical, romantic, 20th century and contemporary periods. Students enrolled will refine advanced principles of proper instrumental technique, elements of ensemble performances, strategies for reading musical notations, sight-reading, technical exercises, scales, etudes, solo technique and proper stage and concert etiquette. Students enrolled in Honors Wind Ensemble are required to participate in all performances during and after-school and the annual Performing Arts adjudication trip. Students must practice daily. This course meets on a daily basis with the opportunity for students to audition and apply for PMEA and AV Honors Bands.

CHAMBER ORCHESTRA

Credit Value: 1.0

(#8630)

Periods Per Week: 5

Semester:

Full Year

Prerequisites: Audition with Director

Open to Grades:

10, 11, 12

Chamber Orchestra is for the highly dedicated orchestral string student who is interested in continuing their advancement on their chosen instrument. Students will play with correct position, dynamics, intonation, and balance within the orchestra. Chamber Orchestra is a full year course that is offered to students in grades 10, 11, and 12 who have shown a high playing level. Members of the orchestra are required to participate in all performances during and after-school.

CONCERT ORCHESTRA**Credit Value: 1.0****(#8635)****Periods Per Week: 5****Semester: Full Year****Prerequisites: Recommend previous string orchestra experience****Open to Grades: 9, 10, 11, 12**

Concert Orchestra is for the orchestral string student who is interested in continuing their advancement on their chosen instrument. Students will play with correct position, dynamics, intonation, and balance within the orchestra. Concert Orchestra is a full year course that is offered to students in grades 9, 10, 11, and 12 who have at least a two-year background playing an orchestral string instrument. Members of the orchestra are required to participate in all performances during and after-school.

PIANO LAB 1**Credit Value: .5****(#8660)****Periods Per Week: 5****Semester: Either****Prerequisites: None****Open to Grades: 9, 10, 11, 12**

Piano Lab 1 is a course designed to teach students interested in playing the piano basic skills of music reading and performance. This semester course will address proper playing habits, how to read standard piano notation, basic melody and accompaniment playing in a variety of keys, as well as the application of written theory concepts. Students will compose their own piano piece and perform a recital on a grand piano at the conclusion of the class. Recommended course prerequisites include, but are not limited to, note recognition in treble and bass clefs and the ability to read basic rhythm patterns.

PIANO LAB 2**Credit Value: .5****(#8665)****Periods Per Week: 5****Semester: Either****Prerequisites: 60% or above in Piano Lab 1****Open to Grades: 9, 10, 11, 12**

Piano Lab 2 is a course designed to teach students interested in playing the piano basic skills of music reading and performance. This semester course will further keyboard technique, continuing more complex melody and accompaniment structures in a greater variety of keys, as well as more advanced music theory. Students will compose an advanced piano piece and perform an intermediate level recital on a grand piano at the conclusion of the class.

PERCUSSION ENSEMBLE**Credit Value: .5****(#8545)****Periods Per Week: 5****Semester: Either****Prerequisites: None****Open to Grades: 9, 10, 11, 12**

Percussion Ensemble is a semester long course designed for students who have a desire to learn and play percussion instruments (marimba, xylophone, vibes, timpani, hand drums, snare drum, auxiliary, etc.). This course will include guidance and direction in developing techniques of performance, notation reading and musicality using a variety of musical settings including marching percussion, concert percussion, world drumming and small ensembles. Students enrolled in Percussion Ensemble are required to participate in all performances during and after-school.

**Instrumentalists/percussionists in Band must still be enrolled in a regular band class (Wind, Symphonic, Honors Jazz Ensemble I, Jazz Ensemble II)*

MUSIC THEORY**Credit Value: .5****(#8540)****Periods Per Week: 5****Semester: Either****Prerequisites: None****Open to Grades: 9, 10, 11, 12**

Music Theory is a semester course is designed to develop students' abilities to recognize and understand the basic materials and processes in music notation, composition and arranging. The course offers a solid foundation in intervals, pitch patterns, metric/rhythmic patterns, chord, musical composition and the terms, rules, and regulations that are a part of a basic understand of music. Students are expected to complete a transposition project at the conclusion of this course. This course is recommended, but not limited to, students who would like to pursue a career in music.

**PHYSICAL
EDUCATION &
HEALTH**

PHYSICAL EDUCATION AND HEALTH

PHYSICAL EDUCATION 9

Credit Value: .5

(#7000)

Periods Per Week: 5

Semester: Either

Prerequisites: None

Open to Grades: 9

The Physical Education courses are designed to improve physical fitness levels while focusing on the tactile learner and to introduce the student to a variety of concepts which include motor learning, exercise physiology and kinesiology.

The 9th grade course has been developed to meet the increasingly diverse physical needs of the intermediate level student, focusing not only on the development of physical skills, but on concepts essential to building self-esteem, group problem solving, and the importance of team work to accomplish success.

*Physical Education is required each year for graduation

LIFETIME ACTIVITIES

Credit Value: .5

(#7010)

Periods Per Week: 5

Semester: Either

Prerequisites: None

Open to Grades: 10, 11, 12

This course will focus on individual or partner activities: Pickle ball, tennis, badminton, disc golf, golf, biking, table tennis and volleyball. A fitness component will be incorporated twice weekly for the semester course. The concept of individual and partner competition/participation is the primary goal of this course.

TEAM SPORTS

Credit Value: .5

(#7015)

Periods Per Week: 5

Semester: Either

Prerequisites: None

Open to Grades: 10, 11, 12

This course will focus on team games: football, soccer, basketball, ultimate frisbee, hockey, volleyball and handball. A fitness component will be incorporated twice weekly for the semester course. The concept of teamwork and competition is an important consideration for this class.

AEROBIC FITNESS AND DANCE

Credit Value: .5

(#7030)

Periods Per Week: 5

Semester: Either

Prerequisites: None

Open to Grades: 10, 11, 12

Aerobic Fitness and Dance is designed to introduce students to a variety of group fitness and dance classes including, but not limited to, Step, Cardio Kick-box, Latin Dance, Hip Hop, Yoga, Pilates, Bocu, High and Low Impact and Boot-camp. The students will be able to identify different exercises and muscle groups they work, demonstrate proper form when executing various exercises and increase muscular strength and endurance. A yoga mat is required for this course.

**PRINCIPLES OF WEIGHT TRAINING
AND PHYSICAL FITNESS****Credit Value: .5****(#7040)****Periods Per Week: 5****Semester: Either****Prerequisites: None****Open to Grades: 10, 11, 12**

Principles of Weight Training and Physical Fitness is designed as an introduction to weightlifting and conditioning principles. Set your own goals and develop and implement individual fitness plans. This course will consist of both a classroom setting along with utilizing the fitness center for practical application. Students will be introduced to basic principles in exercise science to gain knowledge of the benefits of physical activity and how the human body responds to different types of physical activity. The importance of proper nutrition to maximize performance will be covered in this course as well.

SPORTS PERFORMANCE**Credit Value: .5****(#7020)****Periods Per Week: 5****Semester: Either****Prerequisites: 80% or above in previous P.E. class****Open to Grades: 10, 11, 12**

This course will focus on exercise programs to improve athletic performance: strength, speed and agility. Students should consider taking this course during the off-season, if possible. The concept of partner work and personal improvement will be strongly emphasized.

ADAPTIVE PHYSICAL EDUCATION**Credit Value: .5****(#7080)****Periods Per Week: 5****Semester: Either****Prerequisites: Selected Students****Open to Grades: 9, 10, 11, 12**

This class is involved in the same activities as the regular physical education class except with more emphasis on physical fitness and necessary skill development. Students will be placed in this class by parent/doctor request, teacher recommendation, and/or a student's individual needs.

HEALTH 1**Credit Value: .5****(#7100)****Periods Per Week: 5****Semester: Either****Prerequisites: None****Open to Grade: 9, 10**

Health 1 is designed to give students a continuing understanding of the body and how to maintain a healthy state. The course covers health and wellness, mental health, illegal drugs, reproduction, pregnancy, contraception, relationships, STD's and HIV/AIDS. Community resources including guest speakers and specialists may be invited to speak.

*Health 1 is to be completed in 9th or 10th grade and successful completion is required for graduation.

HEALTH 2**(#7200)****Periods Per Week: 5****Prerequisites: Health 1****Credit Value: .5****Semester: Either****Open to Grades: 11**

Health 2 is designed to focus on a variety of health-related topics including addictions, relationships, dating violence, first aid, including CPR/AED, nutrition dealing with dietary behaviors and consumer health, focusing on careers. Community resources including guest speakers and specialists may be invited to speak.

*Health 2 is to be completed in 11th grade and successful completion is required for graduation.

FIRST RESPONDER**(#7065)****Periods Per Week: 5****Prerequisites: 70% or above in Health 1****Credit Value: .5****Semester: Either****Open to Grades: 11, 12**

First Responder is designed to provide the participant with the knowledge and skills necessary to work as a first responder in an emergency to help sustain life, reduce pain and minimize the consequences of injury or sudden illness until more advanced medical help can arrive.

The course content and activities will prepare participants to make appropriate decisions about the care to provide in an emergency. The course teaches the skills a first responder needs to act as a crucial link in the emergency medical services (EMS) system.

Students will be eligible for an American Red Cross course completion certificate as an Emergency Responder upon:

- performing specific skills competently and demonstrating the ability to make appropriate decisions for care
- passing a written examination with a score of 80% or higher

**SCIENCE
DEPARTMENT**

SCIENCE

ACADEMIC PLACEMENT

Course prerequisites are guidelines set for the purpose of placing students in the academic course, with the appropriate level of academic rigor. Please refer to pages 6 & 7 for school guidelines on academic placement. For appropriate recommendation, it is advised that students and parents consult with their current academic teacher and their assigned school counselor.

EARTH/SPACE SCIENCE

Credit Value: 1.0

(#3000)

Periods Per Week: 5

Semester: Full Year

Prerequisites: None

Open to Grade: 9

The Earth/Space Science course is a one-year activity-oriented program. It is comprised of four basic units: astronomy, geology, meteorology, and oceanography. These units are related to each other by emphasizing similar themes throughout the course. These themes include the production and transfer of energy, the structure and changes of earth materials, plate tectonics and its relationship to changes in the crust of the earth, the record of the earth's past, the earth's atmosphere and oceans, and the composition and structure of space. All students will demonstrate knowledge of key concepts in Earth Science and how these concepts relate to their everyday lives.

A.P. BIOLOGY

Credit Value: 1.5

(College in High School - University of Pittsburgh)

(#3010)

Periods Per Week: 7

Semester: Full Year

Prerequisites: A.P. Criteria

Open to Grade: 11, 12

The AP Biology course offers students the opportunity to take the equivalent of two semesters of an introductory college-level biology course following the AP Biology syllabus as published by the College Board. Students cultivate their understanding of biology through inquiry-based investigations as they explore many topics such as biochemistry, cellular processes, genetics, gene expression, natural selection, and ecology. A large portion of the instructional time will be spent in hands-on laboratory work with opportunities to increase critical thinking skills and enhance problem solving abilities. The large number of objectives and fast pace of the course will prepare students for any future biology courses taken at higher educational institutions.

Students who enroll in this course have the option of taking the Advanced Placement Biology examination given in May of each year or Pitt CHS credit. The CHS curriculum correlates closely to the AP curriculum. The grade for CHS credit is determined by the student's performance on two exams, a comprehensive final, and a high school classwork grade. Students must also perform one laboratory exercise on the University of Pittsburgh campus.

College/University: University of Pittsburgh (May be accepted at other universities/colleges)

Course Equivalent/Credits: Preparation for Biology (BIOSC 0100) / 3 credits

Cost: \$75 per credit/\$225 per course (2023-24)

Registration Deadline: See Teacher

Summer Assignment: Yes

A.P. Test Date: May 2025

Test Cost: \$98 (2024)

Registration Deadline: See Teacher

Summer Assignment: Yes

HONORS BIOLOGY**Credit Value: 1.5****(#3015)****Periods Per Week: 7**
**Prerequisites: 89% or above in Science 8 and 70%
or above in Algebra 1 for freshmen;
89% or above in Earth Space Science****Semester: Full Year**
Open to Grade: 9, 10

Honors Biology is a course for the student who wishes to pursue a challenging and rigorous level of study in biology. This course is appropriate for students planning for a career in a science field. There is a higher degree of student responsibility to achieve the goals and demands of the course. Proficiency and depth of understanding will be emphasized. Students will be expected to work independently and cooperatively in a lab and develop essential lab skills. Lab activities will complement each component of the core curriculum. Six major units of study comprise the core contents of this course: nature of life, biochemistry, cells, genetics, evolution and ecology.

BIOLOGY**Credit Value: 1.5****(#3020)****Periods Per Week: 7**
Prerequisites: 70% or above in Earth/Space Science**Semester: Full Year**
Open to Grade: 10

Biology is an introductory biology course for high school students. The curriculum focuses on six major units: introduction to biology, biochemistry, cell structure and function, genetics, evolution, and ecology. Laboratory investigations, projects, discussions, and web-based activities are strategies used to develop these concepts. This introductory course is appropriate for students intending to earn a college degree for non-science related fields or going directly into the workforce.

CONCEPTUAL BIOLOGY**Credit Value: 1.0****(#3025)****Periods Per Week: 5**
Prerequisites: 60% or above in Earth/Space Science**Semester: Full Year**
Open to Grades: 10

Conceptual Biology is an introductory biology course for high school students. The curriculum focuses on six major units: introduction to biology, biochemistry, cell structure and function, genetics, evolution and ecology. Laboratory investigation, projects, discussions and web-based activities are strategies used to develop these concepts. This is a single period biology course that focuses on the core concepts listed. This course is designed for students who are planning to attend college for non-science related fields or going directly into the workforce.

COMPARATIVE LIFE SCIENCE**Credit Value: 1.0****(#3030)****Periods Per Week: 5**
**Prerequisites: 60% or above in Biology or
Science 9-10****Semester: Full Year**
Open to Grades: 11, 12

The Comparative Life Science course is designed increase student understanding of the anatomy, physiology, ecology, and evolution of diverse organisms. Throughout this course, students will study viruses, prokaryotes, protists, fungi, invertebrates (including sponges, cnidarians, worms, mollusks, arthropods, and echinoderms), and vertebrates (including fish, amphibians, reptiles, birds, and mammals). Students will engage in a wide variety of activities of activities including preserved animal dissections, lab investigations, research projects, and textbook materials.

A.P. CHEMISTRY

(College in High School - University of Pittsburgh)

(#3035)

Periods Per Week: 7

Prerequisites: A.P. Criteria*

Credit Value: 1.5

Semester:

Open to Grade:

Full Year

11, 12

This course is designed to meet the demands of the AP Chemistry syllabus as published by the College Board. In-depth topics include, but are not limited to, atomic theory and structure, chemical bonding and geometry, chemical reactions, stoichiometry, chemical equilibrium, kinetics, thermodynamics, acid-base chemistry and electrochemistry. The large number of objectives and fast pace of this course make it demanding. This course is the equivalent of two semesters of chemistry at the college-level. Meaningful laboratory work is critical to the successful development of topics covered in this course; therefore, students will be expected to spend considerable time exploring concepts in the laboratory. With success in the class, the student has the opportunity to earn college credit by taking the AP Chemistry exam at the end of the year. As with any AP class, the experience of having a college-level science class in high school will be invaluable, developing time-management and organization skills. AP Chemistry can be taken as either a junior or senior but taking it as a junior will prepare the student for other advanced science courses as a senior.

The grade for CHS credit is determined largely by the student's performance on three exams, laboratory exercises and a comprehensive final, but includes a high school component, which may include homework and quizzes. **Students choosing to take this course for CHS credit must participate in laboratory exercises which are conducted on the University of Pittsburgh campus.**

Students who enroll in this course may take the Advanced Placement Chemistry examination given in May of each school year. Based on the results of this examination, students may qualify for college credit and/or advanced college standing.

College/University: University of Pittsburgh (May be accepted at other universities/colleges)

Course Equivalent/Credits: General Chemistry 1 (CHEM 0110) / 4 credits

Cost: \$75 per credit/\$300 per course (2023-24) plus an additional \$48 lab fee

Registration Deadline: See Teacher

Summer Assignment: Yes

A.P. Test Date: May 2025

Test Cost: \$98 (2024)

Registration Deadline: See Teacher

Summer Assignment: Yes

*Students must have successfully completed Chemistry and Algebra 2 to be eligible for the AP exam.

HONORS CHEMISTRY**(#3040)****Periods Per Week: 7****Prerequisites: Completion of /or concurrent enrollment in Geometry 89% or above in Biology or 80% or above in Honors Biology****Credit Value: 1.5****Semester: Full Year****Open to Grades: 10, 11, 12**

In Honors Chemistry students will continue with the inquiry approach as they have learned in previous science courses. Laboratory experiments are an integral part of the course and will be utilized to reinforce concepts and develop critical thinking skills. Included in the course are a detailed study of matter and its properties and changes, the atom, inorganic nomenclature, chemical equations and reactions, the concept of the mole, stoichiometry, solutions gases, the periodic table, and molecular structure. Good mathematical skills are essential. Interwoven throughout the course are the mathematical applications of chemistry with the use of calculators, computers, and laboratory interfacing equipment for the development of problem-solving skills. Students need strong algebraic skills to be successful in the course-

CHEMISTRY**(#3045)****Periods Per Week: 7****Prerequisites: Completion of/or concurrent enrollment in Geometry; 70% or above in any Biology****Credit Value: 1.5****Semester: Full Year****Open to Grades: 10, 11, 12**

Chemistry is one of the basic science courses that is fundamental in preparing a strong background for a student going on to some form of higher education. The student will integrate conceptual understandings, algebra skills and an ongoing laboratory experience to develop the fundamentals of problem solving, laboratory work, and the practical application of Chemistry. Chemistry emphasizes process skills to address areas of study, which include measurement, atomic structure, chemical bonding, states of matter, stoichiometry, thermochemistry, and gas laws. This course is for those students seriously considering a 4-year college and expecting the rigor of a lab science.

HONORS ORGANIC CHEMISTRY**(#3055)****Periods Per Week: 5****Prerequisite: 80% or above in Honors Chemistry****Credit Value: 1****Semester: Full Year****Open to Grades: 11, 12**

Honors Organic Chemistry is an advanced science course intended for students who are interested in pursuing a career in medicine, pharmacy, or chemistry/biochemistry, or who are simply interested in further exploring another area of chemistry. In Honors Organic Chemistry, students will learn to recognize the formulas of important functional groups, classify compounds into organic families, and apply the organic system of nomenclature (IUPAC System) to name organic compounds. Additionally, students will develop an understanding of the physical and chemical properties of organic compounds and write equations and mechanisms for their preparations. Other topics covered in the course include resonance hybrids, structural isomers, cyclohexane conformations, electron pushing and chirality and stereoisomerism. The course content will be presented primarily through lectures and some lab experiments. Students will also gain experience in constructing molecular models to further enhance the course content.

CONCEPTUAL CHEMISTRY**Credit Value: 1.0****(#3050)****Periods Per Week: 5**
**Prerequisites: 70% or above in Algebra 1
or Essentials of Algebra 1****Semester: Full Year**
Open to Grades: 11, 12

Conceptual Chemistry focuses on the basics of chemistry and will study much of the same big ideas and key content that is covered in Chemistry but will emphasize a lower degree of mathematical involvement and mathematical rigor. Topics covered include: the metric system of measurement, using the factor-label method for converting metric units, physical and chemical properties and changes of matter, classification of matter, atomic theory and structure, organization and use of the periodic table, chemical bonding, molecular shapes, and balancing simple chemical equations. Additionally, students will engage in group work and laboratory activities to help obtain a better understanding of the principles of chemistry that are in action all around us every day.

This course is closed to students who have successfully completed previous chemistry course work.

A.P. PHYSICS C**Credit Value: 1.5****(College in High School – University of Pittsburgh)****(#3070)****Periods Per Week: 7**
**Prerequisites: A.P. Criteria & concurrent/prior
enrollment in Calculus****Semester: Full Year**
Open to Grade: 12

Advanced Placement Physics C – Mechanics is designed to provide a strong foundation in mechanics for students with aspirations in the sciences at the college or university level. This course includes topics in both classical mechanics, specifically: Kinematics, Newton’s laws of motion; Work energy, and power, systems of particles, linear momentum; Circular kinematics and dynamics; mechanical waves, kinetic theory and Oscillations and gravitation. Additional topics related to Electromagnetism are covered as time permits but there is a focus on preparation for the AP Physics C Mechanics exam.

Students who enroll in this course have the option of taking the Advanced Placement Physics examination given in May of each year or Pitt CHS credit. Based on the results of the examination, students may qualify for college credit and/or advanced college standing. Each test is usually transferred as four college credits in a Calculus based physics course.

College/University: University of Pittsburgh (May be accepted at other universities/colleges)
Course Equivalent/Credits: PHYS 0174: Basic Physics for Science and Engineering / 4 credits
Cost: \$75 per credit/\$300 per course (2023-24)
Registration Deadline: See Teacher
Summer Assignment: Yes

A.P. Test Date: May 2025
Test Cost: \$98 (2024) each test*
Registration Deadline: See Teacher
Summer Assignment: Yes

(*Two separate tests – Physics C: Mechanics and Physics C: Electricity and Magnetism, extra work outside of class would be required for students wishing to attempt the Electricity and Magnetism)

HONORS PHYSICS**Credit Value: 1.5****(#3075)****Periods Per Week: 7****Semester: Full Year****Prerequisites: Concurrent enrollment in/or successful completion of Precalculus****Open to Grades: 11, 12**

Honors Physics is an academic course for those who want to know how the world works and plan to attend university. Practical considerations of motion, energy, momentum, electricity, and optics are a few of the topics addressed in this course. Students in Honors Physics will learn basic physical laws through a series of demonstrations and discovery experiments with accompanying discussions. There will be a strong emphasis on problem solving techniques and critical writing. The use of computer technology for experiments and for access to class materials is an integral part of this class.

PHYSICS**Credit Value: 1.5****(#3080)****Periods Per Week: 7****Semester: Full Year****Prerequisites: Concurrent enrollment in/or successful completion of Algebra 2****Open to Grade: 11, 12**

Physics is a course designed for students to experience science through demonstrations and discovery experimentation. Motion, force, light, and electricity are just a few of the many topics presented in this course. They will also study various problem-solving techniques which will assist any student who plans on any type of post-secondary education. Physics is recommended for the student going on to some form of higher education.

CONCEPTUAL PHYSICS**Credit Value: 1.0****(#3085)****Periods Per Week: 5****Semester: Full Year****Prerequisites: None****Open to Grades: 11, 12**

The Conceptual Physics course is designed to explore the numerous phenomena concerning the world around us as it relates to matter and energy. Motion, forces, electricity, and heat will be investigated through conceptual explanations. Mathematical skills will not be emphasized but will assist in concept construction and evaluation. Students will increase their ability to think logically and improve their mathematical reasoning through the use of quantitative labs and word problems. Students are encouraged to ask questions as to how or why a physical concept works in the real world. The course also includes lab summaries, performance-based assessments, labs, and discussions. Students will be responsible for their success by becoming an active listener, staying organized, and using additional resources such as the instructor's webpage to increase their understanding.

SCIENCE ELECTIVES

*These courses are electives and may not be used to fulfill the third year of science required for grades 9–12.

HONORS ANATOMY & PHYSIOLOGY

Credit Value: 1.5

(College in High School - Carlow)

(#3100)

Periods Per Week: 7

Semester: Full Year

Prerequisites: 80% or above in Honors Chemistry or
89% or above in Chemistry and
Proficiency on the Keystone Biology
Exam

Open to Grades: 12

Honors Anatomy & Physiology is an intensive two-course sequence designed for a student preparing for a career in the medical/allied health professions. This comprehensive year-long college course covers the anatomical structure of the major organ systems of the body (Integumentary, Skeletal, Muscular, Nervous, Endocrine, Cardiovascular, Respiratory, Digestive, Urinary, and Reproductive) and the physiological and homeostatic mechanisms that are associated with their functions. Scheduled lab activities include comprehensive, comparative rat, mink and animal organ (eye, heart and brain) dissections. In addition to regularly scheduled class time, students will participate in lab activities at the Palumbo Science Center on the Carlow College campus.

Students have the opportunity to take this course as a **College in High School** course and receive university/college credit upon successful completion of the course requirements.

College/University: Carlow College (May be accepted at other universities/colleges)
Course Equivalent/Credits: BIO 201/BIO 202: Human Anatomy & Physiology I & II/4 credits per sem.
Cost: \$300 per semester (2023-24)
Registration Deadline: See Teacher
Summer Assignment: Yes

ANATOMY & PHYSIOLOGY

Credit Value: 1.0

(#3110)

Periods Per Week: 5

Semester: Full year

Prerequisites: 70% or above in Chemistry or
80% or above in Conceptual Chemistry

Open to Grades: 12

Anatomy & Physiology is a yearlong course designed for students that are interested in learning about the structure and function of the human body. This course is also intended for students who are preparing for a career in a health profession such as nursing or physical therapy. The course focuses on some of the major organ systems of the body (Integument, Skeletal, Muscular, Nervous, Cardiovascular, and Digestive) as well as the physiological and homeostatic mechanisms that are associated with their functions. Scheduled lab activities include comparative dissections of model animals and animal organs.

FORENSIC SCIENCE**Credit Value: .5****(#3105)****Periods Per Week: 5**
**Prerequisites: Completed or concurrent enrollment
in Chemistry or Conceptual Chemistry****Semester: Either**
Open to Grades: 11, 12

Forensic Science is a one semester elective course that incorporates the application of biology and chemistry into criminal investigation. Through lectures and laboratory experiments, students will learn the skills used by forensic scientists for solving crimes. The course is primarily designed as a laboratory-oriented course that focuses on the development of logical thinking skills and problem-solving procedures through the collection and analysis of data. Some of the topics to be included are specimen collections, glass and soil analysis, analyses of DNA, fingerprints, hair & fibers, documents, simulated blood splatter, simulated drugs and poisons, and murder mystery scenarios.

NUCLEAR ASTRONOMY**Credit Value: .5****(#3095)****Periods Per Week: 5**
**Prerequisites: Completion of/or concurrent enrollment
in Chemistry****Semester: Either**
Open to Grades: 11, 12

This course combines the related studies of Nuclear Science and Astronomy. All the elements in the periodic table were created by nuclear fusion in stars. We will study the life cycle of these stars, the planets that orbit them, and the history of the innumerable galaxies in our universe.

Some of the elements created in those stars are unstable and give us radioactivity here on Earth. We will study those radioactive isotopes and how they might cause cancer, treat cancer, power space craft, give us electricity, or be used in nuclear weapons.

SUSTAINABILITY**Credit Value: 1.0****(College in High School - University of Pittsburgh)****(#3115)****Periods Per Week: 5**
**Prerequisites: Advanced/Proficient on the Biology
Keystone Exam or successful completion
of AP, CHS, or Honors-level Science course****Semester: Full Year**
Open to Grades: 10,11, 12

Sustainability is a class for students interested in protecting our environment through personal action and becoming involved in community projects to combat climate change and promote climate justice. Sustainability is a college-level elective class offered in conjunction with the University of Pittsburgh college in high school program. Sustainability involves examining energy and resource use in our own lives so that we can begin to understand the complex web of production, distribution, and consequences of human society today. Sustainability will require that students conduct a series of experiments for various environmental issues. Students will document their experiments and write a reaction paper articulating their thoughts. Onsite and offsite field trips will be conducted to enhance class discussions and student experiments. Students will also have the opportunity to work on environmental projects in our own community.

College/University: University of Pittsburgh
Course Equivalent/Credits: GEOL 1330/3 credits
Cost: \$75 per credit/\$225 per course (2023-24)
Registration Deadline: See teacher
Summer Assignment: No

**SOCIAL STUDIES
DEPARTMENT**

SOCIAL STUDIES

ACADEMIC PLACEMENT

Course prerequisites are guidelines set for the purpose of placing students in the academic course, with the appropriate level of academic rigor. Please refer to pages 6 & 7 for school guidelines on academic placement. For appropriate recommendation, it is advised that students and parents consult with their current academic teacher and their assigned school counselor.

PENNSYLVANIA CITIZENSHIP TEST

Act 35 of 2018 requires the administering of a citizenship test to students in grades 7 through 12. The one-time assessment, typically administered during Civics & Government, will test each student's understanding of the nature, purpose, and principles of the United States constitutional democracy and the responsibilities and rights of United States citizenship. Students who score a perfect on the assessment will qualify for a certificate developed by the Pennsylvania Department of Education.

HONORS AMERICAN HISTORY

Credit Value: 1.0

(#1060)

Periods Per Week: 5

Semester: Full Year

Prerequisites: 89% or above in American History 8

Open to Grade: 9

The Honors American History course covers the time period from approximately the mid-1800s to the present. It is a continuation of study from the 8th grade history course. Students will embark on an exciting and thorough course of study, in which the learning objectives will tackle the main themes of American growth, struggles, and strengths as a powerful nation both domestically and internationally.

The course offers students the opportunity to analyze a multitude of historical perspectives in order to try to gain a stronger understanding of all parties involved.

At the honors level, students will be engaged in daily rigorous learning expectations which will be enriched with additional interpretive readings and media, advanced critical thinking, writing, and research skills, as well as independent and group study development. A strong foundation of these skills is highly recommended.

AMERICAN HISTORY

Credit Value: 1.0

(#1065)

Periods Per Week: 5

Semester: Full Year

Prerequisites: 60% or above in American History 8

Open to Grade: 9

The American History course provides an effective foundation for the study of modern-day history of the United States. This is a continuation of study in American History begun in the 8th grade. The course provides a thorough treatment of the significant phases and problems the United States faced as it developed from the 1900's to the present time. Two dominant themes are developed: the emergence of the United States as an industrial and urban nation and the emergence of the United States as a world power. Both developments point out the problems and changes that bring about a re-evaluation of some of the traditional institutions, ideas, and beliefs of the country.

HONORS WORLD CULTURES**Credit Value: 1.0****(#1045)****Periods Per Week: 5**
Prerequisites: 80% or above in Honors American History**Semester: Full Year**
Open to Grade: 10

The Honors World Cultures engages students in the study of modern world history (~1450CE-present) in order to achieve a more critical and integrated understanding of global societies, cultures, and issues during the past five hundred years. Students will explore developments in Australia, Africa, Asia, the Americas, and Europe; consider the rise of the West following the Renaissance; investigate the origins and outcomes of war, revolution, and genocide; trace the disintegration of western empires after World War II; and ponder the global challenges of the post-Cold War era. The honors course is designed for the exceptionally able student who has a keen interest in history and world studies. To prepare students for challenging coursework in the future, this course will stress note-taking and interpersonal, organizational, technological, reading and writing skills in addition to the content covered in class.

WORLD CULTURES**Credit Value: 1.0****(#1050)****Periods Per Week: 5**
Prerequisites: 60% or above in American History**Semester: Full Year**
Open to Grade: 10

The World Cultures engages students in the study of modern world history (~1450 CE-present) in order to achieve a more critical and integrated understanding of global societies, cultures, and issues during the past five hundred years. Students will explore developments in Australia, Africa, Asia, the Americas, and Europe; consider the rise of the West following the Renaissance; investigate the origins and outcomes of war, revolution, and genocide; trace the disintegration of western empires after World War II; and ponder the global challenges of the post-Cold War era.

HONORS CIVICS & GOVERNMENT**Credit Value: 1.0****(#1030)****Periods Per Week: 5**
Prerequisites: 80% or above in Honors World Cultures**Semester: Full Year**
Open to Grade: 11

The Honors Civics & Government course is an introduction to the theory and practice of American Government. Students will examine the framework of federal, state and local governments in detail – their histories, traditions, values and structures. The cultural, political, economic and legal foundations will be a focus within the daily practice of political parties, voting practices, interest groups, civil rights, and mass media. The institutions of Congress, the Presidency, and Federal and Supreme Courts will be explored in depth. Students will also spend time examining the writings of our Founding Fathers (The Declaration of Independence, Constitution, Bill of Rights, Federalist papers, etc.) to better understand the evolution of our government and citizen rights.

This course will contain a series of prepared reading and may be demanding for students who do not have an honors background. Students will be required to complete frequent writing assignments including a research project, position papers, essays, and department project.

CIVICS & GOVERNMENT**Credit Value: 1.0****(#1035)****Periods Per Week: 5****Semester: Full Year****Prerequisites: 60% or above in World Cultures****Open to Grade: 11**

The Civics & Government course is designed to provide a survey course in the study of political theory and government formations, including civic life, political life, and personal life, as well as the purpose and functions of government. This course will contain a series of prepared readings. Students may be exposed to learning through the "Socratic Method", i.e., question and answer method. Instructional methods may include essay writing, debate, and objective examinations are used for evaluation.

The purpose of the Civics & Government course is to increase students' knowledge of the governmental structure and political processes in a democratic society. It will encourage involvement and responsibility, promote a sense of political efficacy, and help students to clarify and access political problems in our society. The course is organized around a text, class discussion, selected readings, and visual media in such areas as political awareness; the role of the individual in a democratic society; rights and responsibilities of citizens; the role and structure of government at the federal, state, county, and local levels; and the U.S. Constitution and the Bill of Rights. Classroom activities are more experimental than theatrical. Students will be required to complete writing assignments including position papers, essays, and a department project.

A.P. ECONOMICS**Credit Value: 1.0****(#1010)****Periods Per Week: 5****Semester: Full Year****Prerequisites: A.P. Criteria****Open to Grades: 11, 12***

*** Although open to juniors and seniors, this course is recommended for seniors.**

The Advanced Placement Economics course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in economics. This program prepares students for college courses in microeconomics and macroeconomics and is equivalent to a full year introductory college course in economics.

The purpose of an A.P. course in microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision-makers, both consumers and producers, within the larger economic system. It places a primary emphasis on the nature and functions of product markets and factor markets, as well as the role of government in meeting general economic goals.

The macroeconomics A.P. course is intended to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. This course places particular emphasis on the study of national income and price determination, and also develops students' familiarity with economics performance measures, economics growth, and international economics.

Students who enroll in this course may take the Advanced Placement Economics tests which are given each spring. This course is demanding, but it is designed to provide interesting and challenging opportunities to develop student abilities beyond the level they might obtain in a less demanding class.

A.P. Test Date: May 2025
Test Cost: \$98 (2024) each test*
Registration Deadline: See Teacher
Summer Assignment: Yes

(*Two separate tests – Macroeconomics & Microeconomics)

HONORS ECONOMICS**Credit Value: 1.0****(#1015)****Periods Per Week: 5****Semester:****Full Year****Prerequisites: 80% or above in Honors Civics & Gov't****Open to Grade:****12**

***For this course it is highly recommended that students have completed Algebra 2 with an 80% or higher.**

The Honors Economics course will provide an opportunity to explore economics concepts in depth. Both microeconomics and macroeconomics will be covered within the framework of the class. Students will have numerous opportunities to apply economics to real life situations. This will be accomplished through the use of simulations, business plan development, case studies, stock market and independent research projects. Students will be required to complete frequent writing assignments including position papers, essays, and a department project.

While it is a social studies course, the content in Honors Economics requires students to utilize mathematical skills and often involves thinking similar to that used in algebraic math. Therefore, a relatively strong math background is encouraged.

ECONOMICS**Credit Value: 1.0****(#1020)****Periods Per Week: 5****Semester:****Full Year****Prerequisites: 60% or above in U.S. Government****Open to Grade:****12**

The Economics course will provide an opportunity for students to explore and clarify attitudes toward the American economic system and learn the skills necessary to function as an informed citizen within that system. Students will balance economic theory with economic practicality. Both microeconomics and macroeconomics will be covered within the framework of the class. Students will be required to complete writing assignments including position papers, essays, and a department project.

PROBLEMS OF DEMOCRACY**Credit Value: 1.0****(#1025)****Periods Per Week: 5****Semester:****Full Year****Prerequisites: None****Open to Grade:****12**

The Problems of Democracy course is designed to increase students' knowledge of current economic, social, and political problems facing the United States today. Students will spend time exploring historical context, debating issues, and creating projects to better understand the complex makeup of a democratic country and the challenges facing their citizens. This one-year course is organized into three main units of study: 1) criminal justice, 2) foreign policy and 3) economics and wealth-related issues. Upon completion of this course students should have a better understanding of events in the news, the actions of various levels of government, and how the government, economy, and other social groups impact all of our lives. This course encourages students to develop and express opinions and ideas, particularly when there is not necessarily a "right answer."

INTRODUCTION TO WORLD POLITICS**Credit Value: 1.0****(Pitt - College in the High School)****(#1295)****Periods Per Week: 5****Semester: Full Year****Prerequisites: Successful completion of Algebra 2****Open to Grades: 10, 11, 12**

World politics is the study of how states interact with each other. This course builds a working knowledge of the field of Political Science, introducing the background, theoretical, and empirical tools necessary to understand international relations today. Students will learn about important findings in a variety of subfields, including war, international political economy, institutions, nuclear proliferation, and terrorism. The course will use problem sets to dive a little deeper into the decision-making process behind political actions. We'll also work with common international relations datasets to obtain a working understanding of the discipline's methodological foundations.

College/University:	University of Pittsburgh
Course Equivalent/Credits:	University of Pittsburgh PS0500 / 3 credits
Cost:	\$75 per credit/\$225 (2023-24)
Registration Deadline:	See Teacher
Summer Assignment:	No

***10th grade students** may enroll in Intro to World Politics as their required social studies course in lieu of Honors World Cultures by gaining approval through the required waiver application process. This should be considered by the most mature and high achieving 9th grade students who maintain an A average in Honors American History and consistently score high on mid-term and final exams. Please see your school counselor.

A.P. EUROPEAN HISTORY**Credit Value: 1.0****(#1005)****Periods Per Week: 5****Semester:****Full Year****Prerequisites: A.P. Criteria****Open to Grades:****10*, 11, 12**

The Advanced Placement European History course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the study of European History from the Renaissance to the present. The course is taught on a college level utilizing materials and methods found in many universities. This level of expectation is not meant to intimidate students, but instead to prepare them for their post-high school studies. It also places them in a challenging, yet comfortable, academic environment with other students who are similarly motivated. The college level materials and methods are introduced gradually allowing the student to make the necessary adjustments in his/her study and preparation.

As the student is exposed to material relevant to the study of European history, he/she will be taught to assess the reliability, relevance and importance of each source and, most importantly, draw his/her own informed conclusions. To adequately provide the necessary materials, the course will utilize a general text and several supplemental source books. While the text provides the necessary historical background, the supplemental materials cover special themes and interpretations. The student will also be exposed to primary source materials including documents, statistical data, historical pictures, videos, and maps. In addition to exposure to these sources, the student will be taught to gather, evaluate, analyze and express historical information effectively in both writing and speech. Students will be taught to take notes and will be expected to keep a notebook and three ring binder on readings, class discussions and lectures. Evaluation will include objective and essay tests, written assignments, class participation and projects. Again, every effort will be made to prepare the students to perform all of these tasks effectively.

Students who enroll in this course may take the Advanced Placement European History examination given in May of each school year. Based on the results of this examination, students may qualify for college credit and/or advanced college standing.

A.P. Test Date: May 2025
Test Cost: \$98 (2024)
Registration Deadline: See Teacher
Summer Assignment: Yes

***10th grade students** may enroll in AP Euro as their required social studies course in lieu of Honors World Cultures. This should be considered by the most mature and high achieving 9th grade students who maintain an A average in Honors American History and consistently score high on mid-term and final exams.

A.P. UNITED STATES HISTORY**Credit Value: 1.0****(#1000)****Periods Per Week: 5****Semester:****Full Year****Prerequisites: A.P. Criteria****Open to Grades:****11, 12**

The Advanced Placement United States History course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and events in United States History. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those of full-year introductory college courses.

Students will learn to assess historical materials--their relevance to a given interpretive problem, their reliability, and their importance--and to weigh the evidence and interpretations presented in historical scholarship. A variety of texts and related supplementary materials, including documents, essays or books on special themes, will be used to provide substantive and thematic coverage. These materials should also provide students with an overview of the subject matter of history and in major interpretive questions that derive from the study of selected themes. In addition, students will learn to analyze and interpret primary sources, including documentary materials, maps, statistical tables, and pictorial and graphic evidence of historical events. Students will also learn to take notes from printed materials and lectures or discussions, write essay examinations, and write analytical and research papers.

Students who enroll in this course may take the Advanced Placement United States History examination given in May of each school year. Based on the results of this examination, students may qualify for college credit and/or advanced college courses.

This course is demanding and is designed to provide interesting and challenging opportunities to develop student abilities beyond the level they might obtain in a less demanding class.

The placement of the student will be reviewed if he/she is not performing according to expectations.

A.P. Test Date: May 2025
Test Cost: \$98 (2024)
Registration Deadline: See Teacher
Summer Assignment: Yes

SOCIAL STUDIES ELECTIVES

CURRENT EVENTS 1

(#1220)

Periods Per Week: 5

Prerequisites: None

Credit Value: .5

Semester: Either

Open to Grades: 9, 10, 11, 12

The Current Events 1 course will provide an opportunity for students to broaden their public awareness and to increase their ability to analyze and cope with events. Important people and places in the news will also be studied. The course is organized as a forum for student collection, analysis, and discussion of current news events. Student materials used are newspapers, magazines, CNN Newsroom and other supplementary materials dealing with the news media and related concerns.

CURRENT EVENTS 2

(#1225)

Periods Per Week: 5

Prerequisites: None

Credit Value: .5

Semester: Either

Open to Grades: 9, 10, 11, 12

The Current Events 2 course will provide students with an opportunity to analyze all phases of the news. Students will use a variety of sources for current information. Magazines, newspapers and television will be used to provide course content. Time will also be spent on learning how to critique those news sources. Improving speaking and writing skills will also be course objectives. (Current Events 1 is recommended.)

GEOGRAPHY

(#1290)

Periods Per Week: 5

Prerequisites: None

Credit Value: .5

Semester: Either

Open to Grades: 9, 10, 11, 12

The Geography course is designed to further develop the basic insights and skills of geography through a systematic study of the purpose of geography, its methods and tools of study, the interrelationships of geographical inquiry and the development of modern geographic, ecological and spatial perspectives. Emphasis in the course is on the study of weather, climate and landforms. This course is planned for students who want to develop the insights of geography for their personal interest or who wish to prepare for the rigors of geography at the college or professional level.

**THE HISTORY OF WESTERN
PENNSYLVANIA****Credit Value: .5****(#1165)****Periods Per Week: 5**
Prerequisites: None**Semester: Either**
Open to Grades: 9, 10, 11, 12

The History of Western Pennsylvania course provides students an exciting opportunity to increase their awareness of Western Pennsylvania history, culture, and trivia. The students will study the chronological history of Western Pennsylvania from 1754 to the present. Primary and secondary documents will be used from newspapers, magazines, and databases as crucial learning tools in this class. Learning will occur through a mix of traditional classroom techniques as well as student-centered projects such as posters, presentations, and station activities. Units of study include but are not limited to: maps and geography, early settlement, Pittsburgh's rise of industry, rebirth as a modern city, Pittsburgh sports, Shaler Area's history, Pittsburghese, and "What Pittsburghers Do/Did for fun."

**THE HOLOCAUST: BACKGROUND,
TRAGEDY & AFTERMATH****Credit Value: .5****(#1155)****Periods Per Week: 5**
Prerequisites: None**Semester: Either**
Open to Grades: 9, 10, 11, 12

The Holocaust: Background, Tragedy, and Aftermath course will study Jewish history and culture, the rise of the Nazi Party in Germany prior to WWII, the attempted genocide of the Jews and other social undesirables by the Nazis, and the resulting postwar consequences. Throughout the duration of the course, students will be expected to read at least one novel, complete various quizzes, tests, reading assignments, and long-term projects, and participate in daily classroom discussion. This is not a course to be taken lightly – it will be emotionally and intellectually challenging - though it is a course students will find completely unique and insightful.

MODERN GLOBAL CONFLICTS**Credit Value: .5****(#1215)****Periods Per Week: 5**
Prerequisites: None**Semester: Either**
Open to Grades: 11, 12

The Modern Global Conflicts course is designed as a collegial study of worldwide conflicts that have occurred primarily after 1980. Because of the nature of the material, the course requires a great deal of feedback, discussion, and critical thinking regarding the material. We will utilize the conflicts as a backdrop to study the political, economic, technological, geographical, and, most importantly, cultural characteristics of all participants involved during classic cases of genocide and civil, religious and imperial disputes. In most cases the course will focus on engagements where the United States has little or no direct involvement. Conflicts discussed usually include the Israeli/Palestinian conflict, the Bosnian War, Rwandan Genocide, etc. It is important to note, however, topics of study can be requested and will be considered if enough interest in the topic exists. The course will combine traditional historical approaches to understanding conflicts, as well as a number of non-traditional and independent projects designed to help personally connect students to these issues.

MULTICULTURAL STUDIES**Credit Value: .5****(#1150)****Periods Per Week: 5**
Prerequisites: None**Semester: Either**
Open to Grades: 9, 10, 11, 12

Multicultural Studies is a three-part course. First, students will study multiculturalism through multicultural storytelling, the story of human migration (“Big History”), and in-depth looks at minority and indigenous groups in America and abroad. Second, students will learn the history of the development of human rights and learn about violations of these rights historically and currently. Lastly, students will focus on numerous case studies of the ultimate human rights violation – genocide. The Holocaust will provide the framework to learning about other genocides that have occurred since 1945. This course, like the Holocaust course, will include numerous guest speakers and field trip opportunities where students will learn about historical events from those who lived them. Though the Holocaust elective is not a prerequisite, together the “Multicultural Studies” and “Holocaust” course will give students a solid foundation in Holocaust, genocide and human rights education.

PRINCIPLES OF PSYCHOLOGY**Credit Value: .5****(#1280)****Periods Per Week: 5**
Prerequisites: None**Semester: Either**
Open to Grades: 10, 11, 12

The Principles of Psychology course is designed to bring about an understanding of the principles of human behavior. This knowledge provides the scientific basis for studying methods of predicting or modifying behavior. The course is open to students who desire a sampling of various psychological findings, and who wish to use this science’s methods and theories to help understand their own personal experiences and development.

This course is organized around a text and some group process experiments. It is supplemented with readings and media. Topics studied include methods and theories of behavior, the brain, states of consciousness, sensation/perception, learning, human development from birth to death, psychological disorders/ therapy, and personality traits.

ADVANCED TOPICS IN PSYCHOLOGY**Credit Value: .5****(#1210)****Periods Per Week: 5**
Prerequisites: 60% or above in Principles of Psychology**Semester: Either**
Open to Grades: 10, 11, 12

Building upon the foundational knowledge gained in Principles of Psychology, the Advanced Topics in Psychology course delves deeper into the intricacies of human behavior, cognition, and mental processes. This semester-long course is designed for high school students who have a keen interest in psychology and a desire to explore more advanced concepts and applications. Through a combination of in-depth discussions, projects, presentations, and hands-on activities, students will gain a deeper understanding of the complexities within the field of psychology. This course aims to prepare students for higher-level academic pursuits in psychology and related fields, fostering a passion for understanding the workings of the human mind.

Course topics will include an investigation into: Thinking and Intelligence, Motivation and Emotion, Social Psychology, Psychological Disorders and Therapies, Positive Psychology, Forensic Psychology, and other emerging trends in psychology.

SOCIOLOGY

(#1285)

Periods Per Week: 5
Prerequisites: None**Credit Value:** .5**Semester:** Either
Open to Grades: 10, 11, 12

Sociology is the study of development, structure, and functions of human societies. This is an introductory course, which will provide you with a basic, **to semi-expansive** foundation of knowledge in this field of study. Sociology shares with other scientific disciplines the objective of seeking to **understand, analyze, and** explain the nature of social order and disorder **and their outcomes and effects. This is done by studying social interaction, patterns of group behavior, and constraints among groups in order to** discover and explain the underlying relationships in a social structure. **Simply put, Psychology** studies the “tree”- **the mental & emotional process of the individual-** *Sociology* studies the “forest” - **Patterned behavior of people in Groups.** Central concepts studied in this course **include but are not limited to:** the **history** of Sociology, culture, social interaction, socialization, **types of societies, group identification,** social change, anti-social behaviors, norms, language, conformity, adolescence and family structure, as well as social science research and data collection.

This academic survey course is organized around **typical introductory level Sociology courses, which includes, but is not limited to: an in-class textbook, supplemental articles, media, & previous studies, individual and group processing, lectures, note-taking, and discussion,** observations, experiments, **and surveys, quizzes, tests, & occasional homework.** Sociology can be useful in helping students **understand & navigate** the **social** world in which they live, providing them with the opportunity to develop a **broader** sociological perspective, **providing** new insights to combat conventional social wisdom, arguing what “most think is true.”

TRIAL LAW

(#1205)

Periods Per Week: 5
Prerequisites: None**Credit Value:** .5**Semester:** Either
Open to Grades: 9, 10, 11, 12

Trial Law is designed for students interested in legal careers, criminology, or who just enjoy taking part in the academic exercise of mock trials. By the end of the course, students will have learned to prepare witnesses, deliver convincing direct examinations, effectively cross-examine witnesses, raise and overcome evidentiary objections, and select the strongest facts to persuasively present to the judge and jury. It will also focus on effective advocacy skills, appropriate professional conduct, and overall trial preparation. The interpretation of both criminal and civil law will be emphasized with additional stress placed on cases relating to the 4th, 5th, 6th, and 8th Amendments. While classes will include some level of explanatory lectures, the emphasis of the course will be on learning through case study legal debate and by participating in a significant number of mock trials in class. This class is perfect for a student who would like to learn more about law and legal interpretation through a hands-on experience.

SPECIAL EDUCATION

SPECIAL EDUCATION

GATE: GIFTED AND TALENTED EDUCATION PROGRAM

The high school Gifted and Talented Education (GATE) program provides opportunities for academic challenges, career exploration and development, and cultural enrichment. The program offers a wide range of authentic, project-based learning experiences designed to suit each student's interests and advanced skills. Students work with a gifted education teacher to develop and achieve their GIEP goals. Academic credit in gifted education is available for students completing at least thirty-five hours of project work. The credit will be reflected on the student's transcript with a grade of "P."

The GATE program is for all students who have been identified as gifted by the Shaler Area School District and currently hold a GIEP

BRIDGE PROGRAM

The Shaler Area High School Bridge Program is an academic support designed for the student whose academic performance has been impacted by various school related issues. The program will focus on enhancing the development of life skills, leadership skills, organization skills, study skills and career goals. Placement in the Bridge Program is incumbent upon a recommendation from the Student Assistance Program (SAP) or Shaler Area High School Administration.

SECTION 504/CHAPTER 15

Special Education is a collaborative effort involving the school, family and community in developing appropriate educational programs for students who hold an Individualized Education Plan (IEP). These programs and services support inclusionary practices and provide the opportunity for students to maximize their potential and become a productive community member.

Chapter 15 Regulations of the Pennsylvania State Board of Education requires that school districts provide protected handicapped pupils enrolled in the district, without cost to the pupil or family, those related aids, services or accommodations which are needed to afford the pupil equal opportunity to participate in and obtain the benefits of the school program and extracurricular activities without discrimination and to the maximum extent appropriate to the pupil's abilities.

More information about Procedural Safeguards, Special Education, Section 504 services/programs, and the district's Educational Records Policy are available upon request from the SASD Department of Student Services or the SAHS Main Office.

BRIDGE RESOURCE PERIOD

BRIDGE RESOURCE 9-12

Credit Value: .5 or 1.0

Periods Per Week: 5

Semester: Either/Both

Prerequisites: None

Open to Grade: 9, 10, 11, 12

This course is designed for students who are referred via the Student Assistance Process (SAP) and need small-group support. The Shaler Area High School Bridge Resource period provides additional academic support in all areas and reinforces basic study skill techniques necessary for academic success. The class will also focus on development of life skills, advocacy skills, organizational skills, and career goals.

This section of the course description book describes courses which are specifically designed for students who hold an IEP and need small-group support in core content areas.

RESOURCE CLASS

RESOURCE 9-12

Credit Value: .5 or 1.0

Periods Per Week: 5

Semester: Either/Both

Prerequisites: None

Open to Grade: 9, 10, 11

Resource Class is a small group, credited course that is designed to assist IEP student in achieving academic success by encouraging responsibility and self-advocacy. This course will provide students with the opportunity to develop and improve study habits, organizational skills, planning, prioritizing, task completion and time management. Academic support will be provided daily and student performance/learning needs will be monitored and discussed with regular education teachers on an on-going basis.

ENGLISH

These courses are designed for students who hold an IEP and need small-group support in communication arts and include specific strategies to help students succeed with concepts covered in the mainstream setting. The objectives of this course are to develop and improve reading, writing, speaking, listening, and thinking skills in order to communicate more effectively. These courses will concentrate on job and consumer related skills as well as fiction, non-fiction, drama, poetry, spelling, vocabulary development, reading comprehension and fluency.

ENGLISH 9

Credit Value: 1.0

Periods Per Week: 5
Prerequisites: None

Semester: Full year
Open to Grade: 9

This course includes all four phases of the English program: reading, writing, speaking, and listening. Students will focus on reading strategies such as finding the main idea and details and summarizing text. Students will read and analyze adapted versions of *The Odyssey* and *Romeo and Juliet* along with other novels at their instructional level. Short writing assignments emphasize paragraph development, the use of concrete details, specific word choice, effective transitions, and clincher sentences. Speaking and listening skills will be learned and practiced. Grammar is taught in relation to the writing and speaking experience as well as writing and research skills will be practiced.

ENGLISH 10

Credit Value: 1.0

Periods Per Week: 5
Prerequisites: None

Semester: Full Year
Open to Grade: 10

This course emphasizes reading and responding to a variety of literature assignments, developing basic oral and written communication skills, and expanding vocabulary levels. Students will read and discuss a variety of literature from the mainstream curriculum. Short writing assignments emphasize paragraph development, using concrete details, specific word choice, effective transitions, and clincher sentences. Essay development is also an area of focus. Speaking and listening skills will be learned and practiced. Grammar is taught in relation to the writing and speaking experience. A research paper that utilizes the Modern Language Association (MLA) style is required of all 10th graders.

ENGLISH 11

Credit Value: 1.0

Periods Per Week: 5
Prerequisites: None

Semester: Full Year
Open to Grade: 11

The objectives of this course are to develop and improve reading, writing, speaking, listening, and critical thinking skills in order to communicate more effectively. This course will concentrate on fiction, non-fiction, drama, poetry, vocabulary development, reading comprehension, and fluency. Strategies for improving performance on standardized test, Keystone, will be practiced, as well as a research component which utilizes the Modern Language Association (MLA) style.

ENGLISH 12**Credit Value: 1.0****Periods Per Week: 5**
Prerequisites: None**Semester:**
Open to Grade: Full Year 12

The objectives of this course are to develop and improve reading, writing, speaking, listening, and thinking skills in order to communicate more effectively. This course will concentrate on job and consumer related skills as well as fiction, non-fiction, drama, poetry, spelling, vocabulary development and reading comprehension and fluency.

MATH

These courses are designed for students who hold an IEP and need small-group support in mathematics and include specific strategies to help students succeed with concepts covered in the mainstream setting. The initial emphasis is to master the four basic operations with whole, numbers, fractions, percents and decimals. Included will be standard based concepts of measurement and estimation, geometry, analyzing data, basic equations and problem-solving strategies.

MATH 9**Credit Value: 1.0****Periods Per Week: 5**
Prerequisites: None**Semester:**
Open to Grade: Full Year 9

Math 9 is designed as a transition from pre-algebra to Algebra. Students will study the structure of the real number system and the application of the properties of real numbers in problem solving. Included in this study will be a review of the basic operations with real numbers. Methods are developed for the solution of linear equations and inequalities. These methods are then applied to the solution of various types of statement problems. The course provides a basic introduction to polynomials, functions, and graphing. Techniques for solving linear equations in two variables are also studied. This course will help students understand fundamentals of algebra.

MATH 10**Credit Value: 1.0****Periods Per Week: 5**
Prerequisites: None**Semester:**
Open to Grade: Full Year 10

Math 10 is designed as an extension of Math 9 and will cover more topics in the Algebra 1 curriculum. The course will continue to reinforce basic operations with integers, decimals, and fractions in order to apply to certain Algebraic concepts. Students will continue with determining solutions to equations and inequalities and will be extended to systems of equations and inequalities in two variables. They will be introduced to polynomials, radical expressions, and exponential expressions as well as probability and statistical analysis.

MATH 11**Credit Value: 1.0****Periods Per Week: 5**
Prerequisites: None**Semester: Full Year**
Open to Grade: 11, 12

The third year of math is designed for students taking their third year of math as an 11th or 12th grader. The objective is to further the study of the real number system and the application of the properties of real numbers in problem solving. Included in this study will be a review of linear equations and inequalities. These methods are then applied to the solution of various types of statement problems. The course will move beyond the basic introduction to polynomials, functions, systems of equations, quadratics and graphing.

MATH 12**Credit Value: 1.0****Periods Per Week: 5**
Prerequisites: None**Semester: Full Year**
Open to Grade: 12

The fourth-year math course is designed for students who would like to further their study of mathematics and prepare for an entry-level math course that is required at the community college level. It will begin with a review of algebraic concepts and move through higher-level Algebra concepts.

SCIENCE

These courses are designed for students who hold an IEP and need small-group support in science and include specific strategies to help students succeed with concepts covered in the mainstream setting. The focus is on fundamental topics in biology, ecology and geology.

SCIENCE 9, 10, 11 and 12**Credit Value: 1.0****Periods Per Week: 5**
Prerequisites: None**Semester: Full Year**
Open to Grades: 9

The objectives of this course will focus on identification, appreciation, and utilization of science's natural phenomenon as well as the Human body. Students will engage in various small group activities that will include the laboratory, field study, and research topics reinforced with textbook materials when applicable. Topics will include plants, photosynthesis, cellular respiration, genetic engineering, wildlife recognition (fish, amphibians, reptiles, birds, and mammals), plant recognition (trees and wildflowers), ecological relationships, anatomy (form as it relates to function), environmental protection, and the human body. Academic achievement, citizenship, and an awareness of community resources will be stressed.

SOCIAL STUDIES

These courses are designed for students who hold an IEP and need small-group support in social studies. These courses are designed to include specific strategies to help students succeed with concepts covered in the mainstream setting. The objective of the courses is to develop and improve knowledge of world history as well as current issues that affect our lives.

SOCIAL STUDIES 9, 10, 11 and 12

Credit Value: 1.0

Periods Per Week: 5

Semester: Full Year

Prerequisites: None

Open to Grade: 9

The focus for this course will include the study of modern world history, the study of government formations and the economic system of the United States. The students will explore developments in various foreign countries. The course will encourage involvement and responsibility, promote a sense of political efficacy, and help students clarify and access political problems in our society. Students will learn the skills necessary to function as an informed citizen within the American economic system. Additional skills include comprehension, note-taking, and research skills.

TECHNOLOGY EDUCATION

TECHNOLOGY EDUCATION

WOOD TECHNOLOGY 1

(#9050)

Periods Per Week: 5

Prerequisites: None

Credit Value: .5

Semester: Either

Open to Grades: 9, 10, 11, 12

Wood Technology 1 is a semester course designed as an introductory class designed for those students who enjoy working hands on with woodworking equipment. In this class students will be introduced to each piece of woodworking equipment that will be used throughout the semester. Students will also develop safe hand tool and machine tool skills as they work on assigned projects. Over time students will be capable of determining the several different species of wood. The knowledge and skills that the student acquires will become practical life-long benefits and will effectively aid the student to make a transition from the school environment to the workplace.

Possible Projects: Foot Stool

WOOD TECHNOLOGY 2

(#9060)

Periods Per Week: 5

Prerequisites: 60% or above in Wood Technology 1

Credit Value: .5

Semester: Either

Open to Grades: 9, 10, 11, 12

Wood Technology 2 is a semester course is designed as a continuation of Wood Technology 1. It will provide an opportunity for students to improve to a greater knowledge in woodworking. Students will begin to read their own set of plans or prints as well as develop their own material list. Throughout the semester students will continue to gain awareness of the importance of safety while working with the various woodworking tools. The knowledge and skills that the student acquires will become practical life-long benefits and will effectively aid the student to make a transition from the school environment to the workplace.

Possible Projects: Mantel Clock, Magazine Rack

WOOD TECHNOLOGY 1 & 2

(#9070)

Periods Per Week: 5

Prerequisites: See above

Credit Value: 1.0

Semester: Both

Open to Grades: 9, 10, 11, 12

WOOD TECHNOLOGY 3

(#9075)

Periods Per Week: 5

Prerequisites: 70% or above in Wood Technology 2

Credit Value: .5

Semester: Either

Open to Grades: 10, 11, 12

Wood Technology 3 is a semester course designed to extend the skills, knowledge and work ethic developed in Wood Technology 1 and 2. During this course the CNC router will be introduced. At this time the students will encounter the opportunity to both program the CNC router and import the files to a post processor. More advanced techniques in the use of the machines, tools, manufacturing processes, and finishing procedures related to woodworking will be included, as well as a continual emphasis on safety.

Possible Project: Rocking Chair

WOOD TECHNOLOGY 4**(#9080)****Periods Per Week: 5****Prerequisites: 70% or above in Wood Technology 3****Credit Value: .5****Semester: Either****Open to Grades: 10, 11, 12**

Wood Technology 4 is a semester course designed as a continuation of Wood Technology 1, 2, and 3. The CNC router will be used extensively in this course to use on individual projects as well as mass production activities. Throughout the semester, much of the emphasis will be placed on not only operating the machines but setting the machines for the various applications and machines capability. Once again, safety will be of the highest priority.

Possible Project: Occasional Table

WOOD TECHNOLOGY 3 & 4**(#9085)****Periods Per Week: 5****Prerequisites: See above****Credit Value: 1.0****Semester: Both****Open to Grades: 10, 11, 12**

CABINETRY 1**(#9198)****Periods Per Week: 5****Prerequisite: 80% or above in Wood Technology 4****Credit Value: 1.0****Semester: Full Year****Open to Grades: 11, 12**

Cabinetry 1 is a full year course designed as a continuation of Wood Technology 4. Students will design, plan and construct different types of cabinets. Typical activities will include cabinet framing, jointing and re-facing. Students will learn several different types of cabinetry, from designing raised panel doors, to stile and rail framing. The CNC router will be used extensively to produce many of the parts pertaining to student projects. Larger projects will require students to purchase some of their own material. This course will open the doors for students with true woodworking ability.

Projects are student selected.

CABINETRY 2**(#9199)****Periods Per Week: 5****Prerequisite: 80% or above in Cabinetry 1****Credit Value: 1.0****Semester: Full Year****Open to Grades: 12**

Cabinetry 2 is a full year course designed as a continuation of Cabinetry 1 and strictly for seniors with a true love of woodworking. Students will not only be expected to use the equipment in a safe manner, but also be capable of setting up the equipment for the various machine functions. Complex joinery and various finishing technique will be covered extensively. The CNC router will be used to make many of the moldings previously purchased. A student enrolling in this class needs to be serious about woodworking and be willing to encompass new ideas. A senior leaving this class will not only have the ability to work on his or her individual project throughout their lives, but they will also be able to transfer what they learned to the work force. Larger projects will require students to purchase some of their own material.

Projects are student selected.

METAL TECHNOLOGY 1**(#9090)****Periods Per Week:** 5
Prerequisites: None**Credit Value:** .5**Semester:** Either
Open to Grades: 9, 10, 11, 12

Metal Technology 1 is a semester course designed to provide students an introduction to basic metalworking. Direct hands-on experiences include small projects and exercises that are used to show the basic processes involved in the following areas: hand tools, measuring and layout, materials identification, sheet metal, hand threading, forging, heat treating and safety.

Possible Projects: Sheet Metal Tray, Toolbox, Dustpan, Machinist Hammer

METAL TECHNOLOGY 2**(#9100)****Periods Per Week:** 5
Prerequisites: 60% or above in Metal Technology 1**Credit Value:** .5**Semester:** Either
Open to Grades: 9, 10, 11, 12

Metal Technology 2 is a semester course is designed to provide students an introduction to basic machine shop areas. These areas include shop and machine safety, precision measuring, lathe and milling machine set up and operations, basic CNC machining, gas and electric welding, forging, heat treating and safety.

Possible Projects: Naval Cannon Paperweight, Hat Rack, Tile-Top Plant Stand

METAL TECHNOLOGY 1 & 2**(#9101)****Periods Per Week:** 5
Prerequisites: See above**Credit Value:** 1.0**Semester:** Both
Open to Grades: 9, 10, 11, 12

METAL TECHNOLOGY 3**(#9102)****Periods Per Week:** 5
Prerequisites: 70% or above in Metal Technology 2**Credit Value:** .5**Semester:** Either
Open to Grades: 10, 11, 12

Metal Technology 3 is a semester course is designed to provide students an opportunity to work in an advanced machine shop course. This course is designed for the student who has a great interest in the metalworking field. Areas to be covered are safety, designing, precision measurement, casting metal, metal lathe operations and set up, milling machine operations and set up, CNC machining techniques and set up and sharpening tools.

Possible Projects: Meat Tenderizer Hammer

METAL TECHNOLOGY 4**Credit Value: .5****(#9103)****Periods Per Week: 5****Semester: Either****Prerequisites: 70% or above in Metal Technology 3****Open to Grades: 10, 11, 12**

Metal Technology 4 is a semester course is designed to provide advanced students the opportunity to work in an advanced welding course. This course is designed for the student who has a great interest in the metalworking field. Areas to be covered are safety, designing, weld symbol recognition, weld joint recognition, shielded metal arc welding, gas metal arc welding and plasma cutter setup and operation.

Possible Projects: Two-Wheeled Dolly

METAL TECHNOLOGY 3 & 4**Credit Value: 1.0****(#9104)****Periods Per Week: 5****Semester: Both****Prerequisites: See above****Open to Grades: 10, 11, 12**

METAL FABRICATION 1**Credit Value: 1.0****(#9105)****Periods Per Week: 5****Semester: Full Year****Prerequisites: 80% or above in Metal Technology 4****Open to Grades: 11, 12**

Metal Fabrication 1 is a full year course designed as a continuation of Metal Technology 4. Students will be required to research or design their own project plans for a large-scale project. Advanced metal fabrication techniques will be used to complete the students selected project. Students will be required to pay for a majority of the materials used.

Possible Projects: Hitch Hauler, Smoker/Grill, Machinist Vise, and Ornamental Furniture

METAL FABRICATION 2**Credit Value: 1.0****(#9106)****Periods Per Week: 5****Semester: Full Year****Prerequisites: 80% or above in Metal Fabrication 1****Open to Grades: 12**

Metal Fabrication 2 is a full year course designed as a continuation of Metal Fabrication 1. Seniors enrolled in this capstone course will be capable of setting up shop equipment for the various processes used to create a large-scale project. The Torchmate CNC plasma cutter will be introduced and incorporated in the production of a student selected project. Metal Fabrication 2 is designed for the student looking to pursue a career in metalworking (welder, machinist, sheet metal worker, etc.) or engineering. Students will be required to pay for a majority of the materials used.

Possible Projects: Go Kart, Minibike, Barstool Racer, Interior /exterior furniture

ROBOTICS/ELECTRONICS 1**Credit Value: .5****(#9040)****Periods Per Week: 5**
Prerequisites: None**Semester: Either**
Open to Grades: 9, 10, 11, 12

Robotics/Electronics 1 is a semester course designed to introduce the students to electricity and robotics. Students will design, construct and test various simple circuits to learn what each electronic component is and how it functions. Students will learn how to design, etch, and solder their own electronic circuit boards for different projects they will create to take home.

The robotics portion of the course will introduce students to the history, terminology, and programming theory. The students will use VEX EDR system to create a "Clawbot" that will be used throughout the remainder of the semester. Students will add optical shaft encoders, light sensors, ultrasonic rangefinders and limit switches to perform tasks and challenges. Introduction to robotic arm programming will be explored using a SCORBOT.

Possible Projects: Nerve tester, Aggravator Circuit and Outlet Tester.

ROBOTICS/ELECTRONICS 2**Credit Value: .5****(#9045)****Periods Per Week: 5**
Prerequisites: 60% or above in Robotics/Electronics 1**Semester: Either**
Open to Grades: 9, 10, 11, 12

Robotics/Electronics 2 is a semester course designed to enable students to build upon the foundation developed in Robotics/Electronics 1. Students will gain experiences in the operation of digital circuits. The students will then become involved in the development and building of their own project integrated circuits.

Students will continue to develop programming skills using Robot C and various sensors to design and construct robotic systems that will perform complex tasks. Students will also incorporate automation technology and learn how to program an Epilog Laser Engraver to product student designed projects.

Possible Projects: Sound Effects Generator, Police Siren, Dog Tag engraving and other student designed engraving projects.

ROBOTICS/ELECTRONICS 1 & 2**Credit Value: 1.0****(#9046)****Periods Per Week: 5**
Prerequisites: See above**Semester: Both**
Open to Grades: 9, 10, 11, 12

ROBOTICS 3/AUTOMATION**Credit Value: .5****(#9047)****Periods Per Week: 5**
Prerequisites: 70% or above in Robotics/Electronics 2**Semester: Either**
Open to Grades: 10, 11, 12

Robotics 3/Automation is a semester course designed for students to gain experience with automation technology. Students will continue their programming study of SCORBOTS and VEX EDR systems with a focus on automation. Students will also be introduced into CNC Programming and machining using a variety of 3 and 4 axis machines.

Possible Projects: Name Plate, Coaster Set and other student designed projects.

ROBOTICS 4/AUTOMATION**Credit Value: .5****(#9048)****Periods Per Week: 5****Semester: Either****Prerequisites: 70% or above in Robotics 3****Open to Grades: 10, 11, 12**

Robotics 4/Automation is a semester course designed to develop advanced operating skills building on what was learned in previous level courses. Students will integrate different robots and machines. Students will continue their advanced programming study of SCORBOTS, VEX and CNC machining.

ROBOTICS 3 & 4/AUTOMATION**Credit Value: 1.0****(#9049)****Periods Per Week: 5****Semester: Both****Prerequisites: See above****Open to Grades: 10, 11, 12**

ENGINEERING DESIGN/COMPUTER**Credit Value: .5****AIDED DRAFTING 1****(#9110)****Periods Per Week: 5****Semester: Either****Prerequisites: None****Open to Grades: 9, 10, 11, 12**

Engineering Design/CAD 1 is a semester course designed for students who are thinking of entering the field of engineering or drafting. Students will be introduced to the engineering design process and how it relates to solving engineering problems. Students will demonstrate proper labeling, dimensioning, and sectioning of orthographic and isometric drawings, along with 3D modeling. Students will work both individually and in teams to design solutions to a variety of problems using Autodesk AutoCAD and Inventor Professional.

Possible Projects: Bridge Construction, Tower Construction and 3D Design, and printing.

ENGINEERING DESIGN/COMPUTER**Credit Value: .5****AIDED DRAFTING 2****(#9115)****Periods Per Week: 5****Semester: Either****Prerequisites: 60% or above in Engineering Design/
Computer Aided Drafting 1****Open to Grades: 9, 10, 11, 12**

Engineering Design/CAD 2 is designed to enable students to build upon the foundation developed in Engineering Design/CAD 1. Students will continue to apply the engineering design process to create solutions to engineering problems on a larger scale. Math and science applications will also be introduced within the Inventor software and students will learn how to animate 3D drawings.

Possible Projects: Mouse Trap Car, Egg Drop Challenge, The Pringle Challenge and student designed 3D printing.

ENGINEERING DESIGN/COMPUTER AIDED DRAFTING 1 & 2 (#9125)	Credit Value: 1.0
Periods Per Week: 5	Semester: Both
Prerequisites: See above	Open to Grades: 9, 10, 11, 12

ENGINEERING DESIGN/COMPUTER AIDED DRAFTING 3 (#9130)	Credit Value: .5
Periods Per Week: 5	Semester: Either
Prerequisites: 70% or above in Engineering Design/ Computer Aided Drafting 2	Open to Grades: 10, 11, 12

Engineering Design/CAD 3 will allow students to unlock the full potential of Inventor Professional. Students will learn how to create complex drawing animations and detailed assembly drawings. 3D part creating and printing will allow students to bring ideas from the screen into real life for testing and redesign.

ENGINEERING DESIGN/COMPUTER AIDED DRAFTING 4 (#9135)	Credit Value: .5
Periods Per Week: 5	Semester: Either
Prerequisites: 70% or above in Engineering Design/ Computer Aided Drafting 3	Open to Grades: 10, 11, 12

Engineering Design/CAD 4 is a capstone course that will explore various types of engineering and sample drawings and challenges represented from each field. Autodesk software will be used extensively through this course as well as the incorporation of various CNC equipment from the robotics lab.

ENGINEERING DESIGN/COMPUTER AIDED DRAFTING 3 & 4 (#9140)	Credit Value: 1.0
Periods Per Week: 5	Semester: Both
Prerequisites: See above	Open to Grades: 10, 11, 12

VISUAL COMMUNICATIONS 1 (#9150)	Credit Value: .5
Periods Per Week: 5	Semester: Either
Prerequisites: None	Open to Grades: 9, 10, 11, 12

Visual Communications 1 is a semester course designed to learn a variety of techniques used in the graphic design world. In this class students will be introduced to Adobe Photoshop, Illustrator and Microsoft Publisher to create exciting projects. Students will have the opportunity to design and print their own T-shirt using either the screen printing or vinyl pressing process. A variety of machines will be utilized to help create various projects.

Projects may include: T-Shirt, Business Card, Bumper Sticker, Cereal Box, 12-Month Calendar

VISUAL COMMUNICATIONS 2**Credit Value: .5****(#9160)****Periods Per Week: 5****Semester: Either****Prerequisites: 60% or above in Visual Com. 1****Open to Grades: 9, 10, 11, 12**

Visual Communications 2 is a semester course designed as a continuation of Visual Communications 1. Students will gain a greater knowledge of the graphic design world and in Adobe Photoshop and Illustrator. More tools and equipment will be explored and utilized to create a variety of challenging projects.

Projects may include: Trading Card, Mouse Pad, Animated GIF, Cell Phone Wallpaper, Vinyl Stickers, 2-Color T-shirt Design

VISUAL COMMUNICATIONS 1 & 2**Credit Value: 1.0****(#9165)****Periods Per Week: 5****Semester: Full Year****Prerequisites: See above****Open to Grades: 9, 10, 11, 12**

VISUAL COMMUNICATIONS 3**Credit Value: .5****(#9170)****Periods Per Week: 5****Semester: Either****Prerequisites: 70% or above in Visual Com. 2****Open to Grades: 10, 11, 12**

Visual Communications 3 is a semester course designed to build upon the knowledge of design that was learned in Visual Communications 1 & 2. Students will learn advanced tools in Adobe Photoshop and Illustrator. The vinyl cutter will be utilized for projects throughout the course. During this course, the laser engraver will be introduced.

Projects may include: DVD/Video Game Case Redesign, Coffee Mug, Face Swaps, 2-Color Vinyl Stickers, Multi-Colored T-Shirt Design

VISUAL COMMUNICATIONS 4**Credit Value: .5****(#9175)****Periods Per Week: 5****Semester: Either****Prerequisites: 70% or above in Visual Com. 3****Open to Grades: 10, 11, 12**

Visual Communications 4 is a semester course designed to build upon the knowledge of design that was learned in Visual Communications 1, 2 and 3. Students will use a variety of machines to produce individual projects as well as mass production activities. During this course, the 3D Printer will be introduced.

Projects may include: Multi-Colored T-Shirt Design, Movie Poster, Customized Puzzle, 3D Printed Product with Advertisement & Packaging

VISUAL COMMUNICATIONS 3 & 4**Credit Value: 1.0****(#9180)****Periods Per Week: 5****Semester: Full Year****Prerequisites: See above****Open to Grades: 10, 11, 12**

VIDEO MEDIA PRODUCTION 1**Credit Value: .5****(#9190)****Periods Per Week: 5**
Prerequisites: None**Semester: Either**
Open to Grades: 9, 10, 11, 12

Video Media Production 1 is a semester long course designed to introduce students to the visual communications field. Students will learn hands-on skills of camcorder operations, video recording techniques, and basic editing procedures. Students will learn the basic operations and filming techniques by working with their cell phones and high-definition camcorders. Editing will be introduced to students with the use of Adobe Rush and Adobe Premiere Pro editing software. Students will have the opportunity to practice their skills and knowledge by completing various projects and assignments. Anyone interested in making videos as a career or the next YouTube sensation is encouraged to take this course.

VIDEO MEDIA PRODUCTION 2**Credit Value: .5****(#9191)****Periods Per Week: 5**
Prerequisites: 70% or above in Video Media Production 1**Semester: Either**
Open to Grades: 9, 10, 11, 12

Video Media Production 2 is a semester long course designed to cover advanced skills and techniques of filming and editing. Students will be introduced to creative techniques, sound recording, light principles, and advanced editing techniques. Course information will be administered through lectures, textbook, and class demonstrations. Students will have the opportunity to practice their skills and knowledge by completing several different projects and assignments. Projects will be completed individually as well as in a group setting. This course is designed to build upon the knowledge and skills learned in Video Media Production 1.

VIDEO MEDIA PRODUCTION 1 & 2**Credit Value: 1.0****(#9192)****Periods Per Week: 5**
Prerequisites: See above**Semester: Both**
Open to Grades: 9, 10, 11, 12

TELEVISION PRODUCTION 1**Credit Value: 1.0****(#9195)****Periods Per Week: 5**
Prerequisites: 70% or above in Video Media Production 2**Semester: Full Year**
Open to Grades: 10, 11, 12

Television Production 1 is a full year long course designed to introduce students to the skills and techniques associated with the television communications. Utilizing the knowledge learned in Video Media Production 1 & 2, students will have the opportunity to expand their production skills in various ways. Advanced filming and editing projects, along with studio produced projects will make up the foundation of this course. Students will also learn the skills necessary to produce television programs within a studio environment. This course will help prepare students for Television Production 2 and the Morning Announcement Show.

TELEVISION PRODUCTION 2**Credit Value: 1.0****(#9196)****Periods Per Week: 5****Semester: Full Year****Prerequisites: 89% or above in TV Production 1****Open to Grades: 11, 12**

Television Production 2 is a full year long course designed to increase the student's skills and techniques learned in Television Production 1. Utilizing the knowledge learned in Television Production 1, students will have the opportunity to produce the Morning Announcement Show for the Shaler Area Community. Students completing this course should have a solid foundation of all aspects of Television Production by the end of the year. This course is designed for any student interested in pursuing a career in the Television Broadcasting field.

DIGITAL PHOTOGRAPHY 1**Credit Value: .5****(#9185)****Periods Per Week: 5****Semester: Either****Prerequisites: None****Open to Grades: 9, 10, 11, 12**

Digital Photography 1 is a semester course designed for students to learn the basics of digital photography. Throughout the course, students will be able to edit and use their own pictures in a variety of exciting projects using Adobe Photoshop. Students will learn the how to fully operate a DSLR camera that they will use for various projects, such as making a levitation photograph.

DIGITAL PHOTOGRAPHY 2**Credit Value: .5****(#9186)****Periods Per Week: 5****Semester: Either****Prerequisites: 60% or above in Digital Photography 1****Open to Grades: 9, 10, 11, 12**

Digital Photography 2 is a semester course designed as a continuation Digital Photography 1. Advanced control of the DSLR cameras will be taught. Composition techniques will be explored including exciting activities including motion blur, forced perspective, and lighting. Advanced Photoshop editing knowledge will be gained as students also create compelling projects with their own photos.

DIGITAL PHOTOGRAPHY 1 & 2**Credit Value: 1.0****(#9187)****Periods Per Week: 5****Semester: Either****Prerequisites: See above****Open to Grades: 9, 10, 11, 12**

**WORLD &
CLASSICAL
LANGUAGES**

WORLD & CLASSICAL LANGUAGES

It is strongly recommended that all college-bound students begin their second language study in eighth grade. By beginning second language study as early as possible, students have a greater opportunity to advance through the levels of World and Classical Languages offered at Shaler Area, including honors and Advanced Placement classes. Motivated students who wish to increase their background in language study may consider enrolling in more than one second language at a time.

When making application to post-secondary institutions, it is to the student's advantage to demonstrate consecutive years of successful second language study. In fact, students who exceed the years of language study required for post-secondary institutions stand out among the applicants and may be able to receive advanced placement or test out of foreign language courses.

Alternatively, students who do not choose to begin second language study in eighth grade may begin in ninth or later grades.

SEQUENCE

8	-	Level 1
9	-	Level 2
10	-	Level 3
11	-	Honors Level 4
12	-	A.P. Level / Honors Level 5 (CHS)

FRENCH 1

(#4010)

Periods Per Week: 5

Prerequisites: Recommend a 70% or above ELA

Credit Value: 1.0

Semester: Full Year

Open to Grades: 9, 10, 11, 12

In French 1 students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills - listening, speaking, reading and writing - with emphasis on the ability to write in and comprehend the language. Students begin to explore and study the themes of Personal and Family Life, Home Life, School Life, Social & Community Life.

This course's primary goals, aligned with the national standards, are to communicate in French, understand other cultures, connect with other disciplines and acquire information, develop insight into one's own language and culture, and participate in the global community.

FRENCH 2**(#4015)****Periods Per Week: 5****Prerequisites: 70% or above in French 1****Credit Value: 1.0****Semester: Full Year****Open to Grades: 9, 10, 11, 12**

In French 2 students will continue to build proficiency in the four main areas of communication-speaking, listening, reading and writing. Students will continue speaking in the present tense to describe the world around them and will learn to speak, listen, read and write in the past tense. They learn to function in real-life situations using more complex sentences and structures. The class will be conducted in French for 75-80% of the time and students are expected to use the French they know in class to the best of their ability. We will explore the themes of leisure time, activities, vacation and travel, daily routine, cinema and personal health.

This course's primary goals, aligned with the national standards, are to communicate in French, understand other cultures, connect with other disciplines and acquire information, develop insight into one's own language and culture, and participate in the global community.

FRENCH 3**(#4020)****Periods Per Week: 5****Prerequisites: 70% or above in French 2****Credit Value: 1.0****Semester: Full Year****Open to Grades: 10, 11, 12**

In French 3 students will continue to expand and develop the four skill areas of reading, writing, speaking and listening. Students are expected to apply Level 1 and 2 grammar, vocabulary, and concepts in their French 3 work. Themes covered in French 3 target situational proficiency in the areas of telecommunications, travel, food preparation, shopping, leisure activities, medical topics, city and country life and more. Grammar coverage will include present, past, future, conditional and subjunctive tenses. The course is conducted in French for 80-85% of the class period.

This course's primary goals, aligned with the national standards, are to communicate in French, understand other cultures, connect with other disciplines and acquire information, develop insight into one's own language and culture, and participate in the global community.

HONORS FRENCH 4

(College in High School - University of Pittsburgh)
(#4025)

Credit Value: 1.0

Periods Per Week: 5

Semester: Full Year

Prerequisites: 89% or above in French 3

Open to Grades: 11, 12

Honors French 4 curriculum is aligned to the national standards and its course's primary goals are to: communicate in French, understand other cultures, connect with other disciplines, develop insight into one's own language / culture, and participate in the global community.

Instruction in the classroom is entirely in French and students are expected to speak only French. At the conclusion of this course students will be able to speak French well enough to fluently communicate on a variety of topics important in francophone cultures beyond those needed to "survive" in the foreign culture. Students will gain the ability to discuss topics beyond themselves and their immediate surroundings; they will be able to discuss politics, social issues, the media and the future. Gradually, they will find it easier to elaborate with greater detail and link ideas together into more complex sentences. Students will see an increased ability to reference past or future events with less hesitation and greater accuracy. In addition, literacy skills in French will be developed through the communicative acts of reading, writing, and creating discourse around materials of all types.

This course follows the University of Pittsburgh French 003 curriculum and utilizes all of its materials and assessments. A student can elect to take this course for 3 college credits through the University of Pittsburgh.

College/University: University of Pittsburgh (May be accepted at other university/colleges)
Course Equivalent/Credits: University of Pittsburgh FR 003 / 3 credits
Cost: \$75 per credit/\$225 (2023-24)
Registration Deadline: See Teacher
Summer Assignment: Yes

HONORS FRENCH 5**(College in High School - University of Pittsburgh)****(#4035)****Periods Per Week: 5****Prerequisites: 80% or above in Honors French 4****Credit Value: 1.0****Semester: Full Year****Open to Grade: 12**

Honors French 5 curriculum is aligned to the national standards and its course's primary goals, are to: communicate in French, understand other cultures, connect with other disciplines, develop insight into one's own language / culture, and participate in the global community.

Instruction in the classroom is entirely in French and students are expected to speak only French. At the conclusion of this course students will be able to speak French well enough to fluently communicate on a variety of topics important in francophone cultures beyond those needed to "survive" in the foreign culture. Students will gain the ability to discuss topics beyond themselves and their immediate surroundings; they will be able to discuss politics, social issues, the media and the future. Gradually, they will find it easier to elaborate with greater detail and link ideas together into more complex sentences. Students will see an increased ability to reference past or future events with less hesitation and greater accuracy. In addition, literacy skills in French will be developed through the communicative acts of reading, writing, and creating discourse around materials of all types.

This course follows the University of Pittsburgh French 004 curriculum and utilizes all of its materials and assessments. A student can elect to take this course for 3 college credits through the University of Pittsburgh. This is a culmination of a two-year cycle of credits offered through the University of Pittsburgh.

College/University: University of Pittsburgh (May be accepted at other universities/colleges)
Course Equivalent/Credits: University of Pittsburgh French 004 / 3 credits
Cost: \$75 per credit/\$225 (2023-24)
Registration Deadline: See Teacher
Summer Assignment: Yes

JAPANESE 1**(#4110)****Periods Per Week: 5****Prerequisites: Recommend a 70% or above ELA****Credit Value: 1.0****Semester: Full Year****Open to Grades: 9, 10, 11, 12**

Japanese 1 is an introductory course to develop listening, speaking, reading, and writing skills in Japanese with primary focuses on speaking and writing. Topics include greetings, self-introductions, asking and responding to questions about oneself and other basic conversations. Students will learn the 46 phonetic writing symbols called *Hiragana* and *Katakana*, as well as a limited number of characters called *kanji*. Students will be able to speak in paragraph length discourse by the end of the year.

This course's primary goals, aligned with the national standards, are to: communicate in Japanese, understand other culture of Japan, connect with other disciplines, develop insight into one's own language and culture and participate in the global community.

JAPANESE 2**(#4115)****Periods Per Week: 5****Prerequisites: 70% or above in Japanese 1****Credit Value: 1.0****Semester: Full Year****Open to Grades: 9, 10, 11, 12**

Japanese 2 is designed to reinforce the skills taught in the first level. Students will expand their *kanji* reading and writing abilities. Topics will include family and home, likes and dislikes, wants and desires, shopping, counting and weather. Students will further expand on speaking and writing in paragraph length discourse. The class will be conducted in 80-90% Japanese.

This course's primary goals, aligned with the national standards, are to: communicate in Japanese, understand the culture of Japan, connect with other disciplines, develop insight into one's own language and culture and participate in the global community.

JAPANESE 3**(#4120)****Periods Per Week: 5****Prerequisites: 70% or above in Japanese 2****Credit Value: 1.0****Semester: Full Year****Open to Grades: 10, 11, 12**

Japanese 3 will continue to reinforce elements Levels 1 and 2, while putting greater emphasis on conversational ability. Students will learn to utilize increasingly complex thoughts and ideas in their conversation and writing and will learn to communicate in both formal and casual tones. Students will greatly expand the number of *kanji* learned. Included topics are travel and directions, clothing, music and health. The class will be conducted in 80-90% Japanese.

This course's primary goals, aligned with the national standards, are to: communicate in Japanese, understand the culture of Japan, connect with other disciplines, develop insight into one's own language and culture and participate in the global community.

HONORS JAPANESE 4**(#4125)****Periods Per Week: 5****Prerequisites: 89% or above in Japanese 3****Credit Value: 1.0****Semester: Full Year****Open to Grades: 11, 12**

Japanese 4 is designed for the further development of the four primary skills: listening, speaking, reading, and writing. Throughout the course, all activities require active application of concepts from levels 1 through 3. More rigorous communication activities are adopted, and students will be able to create significantly more complex sentences in the target language. New vocabulary, grammatical structures, *kanji*, and content-specific learning strategies will be added to improve dialogue creations and presentations.

This course's primary goals, aligned with the national standards, are to: communicate in Japanese, understand other cultures, connect with other disciplines and acquire information, develop insight into one's own language and culture, and participate in the global community.

Summer Assignment: Yes

A.P. JAPANESE LANGUAGE**Credit Value: 1.0****(#4130)****Periods Per Week: 5****Semester:****Full Year****Prerequisites: A.P. Criteria****Open to Grade:****12**

Advanced Placement Japanese 5 is designed to align with the national standards, which are to: communicate in Japanese, understand other cultures, connect with other disciplines and acquire information, develop insight into one's own language and culture, and participate in the global community. This course is organized to enable students to develop the skills and abilities as delineated in the AP Japanese Language and Culture course description in order to maximize student success on the Advanced Placement exam.

In AP Japanese Language and Culture, students will further develop proficiency in all four language skills with emphasis on the ability to communicate orally and in writing. A review of grammatical structures and introduction to more advanced grammatical structures will assist them on an as needed, contextualized basis. Students will experience the language through authentic mediums such as *manga*, newspapers, television, authentic literature, web sources, role plays, film, native speakers, and modern culture. Students will be able to take notes from authentic oral and written sources, write informal notes or emails, and write formal essays. Instruction and communication in the classroom are in Japanese. Using spoken Japanese, students will be able to speak informally in simulated conversations with classmates. In addition, students will be able to give formal presentations to the class on a variety of topics. Finally, students will be able to use grammatical structures proficiently in both written and spoken tasks.

Students who enroll in this course may take the Advanced Placement Japanese Language and Culture examination given in May of each school year. Based on the results of this examination, students may qualify for college credit and/or advanced college courses.

A.P. Test Date: May 2025
Test Cost: \$98 (2024)
Registration Deadline: See Teacher
Summer Assignment: Yes

LATIN 1**Credit Value: 1.0****(#4135)****Periods Per Week: 5****Semester:****Full Year****Prerequisites: Recommend a 70% or above ELA****Open to Grades:****9, 10, 11, 12**

In Latin 1 the Latin language is introduced to the students through a story-based format. Students follow a real family that lived in Pompeii before Mount Vesuvius erupted in 79 A.D. Cultural topics include, but are not limited to, the following: life in ancient Pompeii, slavery in the ancient world, gladiatorial games, schooling in ancient Rome, ancient theater productions, and the eruption of Mount Vesuvius.

In Latin 1 vocabulary building, grammar, and translation from Latin to English are emphasized. Present, imperfect, and perfect tense verbs are covered in this course. Students will learn how to recognize these verbs in Latin and how to conjugate Latin verbs in these tenses. Students will study subjects, direct objects, and indirect objects in Latin through the nominative, dative, and accusative cases on the noun chart. Throughout the year attention will also be given to positive, comparative, and superlative adjectives, question words, and word order in Latin.

LATIN 2**(#4140)****Periods Per Week: 5****Prerequisites: 70% or above in Latin 1****Credit Value: 1.0****Semester: Full Year****Open to Grades: 9, 10, 11, 12**

In Latin 2 students will continue their study of Latin in a story-based format which follows Quintus as he visits Roman Britain and stays with a relative. Later in the book, Quintus tells the story of his experiences in Alexandria, which was located in Northern Africa. Cultural topics include, but are not limited to, the following: Romanization of Britain, British tribes, lives of slaves in Roman Britain, Alexandria, Egypt, ancient art of glass-making, worship of goddess Isis in Italy, and medicine in the ancient world.

In Latin 2 students will continue their study of verb conjugations and the noun chart. Students will learn how to conjugate Latin verbs in the pluperfect tense, how to recognize a pluperfect verb in Latin, and how to correctly translate pluperfect verbs from Latin into English. Students will also study the genitive and ablative cases on the noun chart. All of the noun chart endings will be thoroughly studied and their uses in Latin sentences will be emphasized. Throughout the year special attention will also be given to relative pronouns, noun-adjective agreement, and present active participles. Just as in Latin 1, vocabulary building, grammar, and translation from Latin to English are emphasized. However, in Latin II students will focus on the interpretation of Latin stories as well as their translation from Latin into English.

LATIN 3**(#4145)****Periods Per Week: 5****Prerequisites: 70% or above in Latin 2****Credit Value: 1.0****Semester: Full Year****Open to Grades: 10, 11, 12**

In Latin 3 students will continue their study of the Latin language through culture, grammar and vocabulary. Grammar concepts and vocabulary from Latin 2 will be expanded. Students will read several stories within each chapter for comprehension and grammar. Translation of these stories into English will be practiced. Oral and written participation will be important factors in the grading process. Vocabulary and grammar are highly emphasized. Students are encouraged to take the National Latin Exam, a nationally recognized exam that serves as an evaluation of their Latin skills.

Students will learn about participles, neuter nouns, and uses of the subjunctive and the future tense. In addition to this, students will be responsible for identifying and forming aforementioned grammar concepts. An understanding of these concepts is critical before beginning the Honors Latin IV curriculum.

HONORS LATIN 4

(College in High School-University of Pittsburgh)
(#4150)

Credit Value: 1.0

Periods Per Week: 5

Semester: Full Year

Prerequisites: 89% or above in Latin 3

Open to Grades: 11, 12

In Honors Latin 4 students will read selections from Caesar's *Commentarii de Bello Gallico* as an introduction to continuous Latin prose and will pay close attention to the art of Caesar's clear and deceptively simple style. Students will also read an English translation of the whole work, *The Gallic War*, for in-class discussion. Students will translate poetry passages by Ovid and Catullus as an introduction to the Vergil course. This course is designed as a two-year cycle, during which students have the opportunity to complete both readings from Caesar and Vergil.

This course follows the University of Pittsburgh Latin 0210 curriculum and utilizes all of its materials and assessments. Students' grades are determined by their performance on three one-hour exams, a final exam and quizzes. A student can elect to take this course for 3 college credits through the University of Pittsburgh.

College/University: University of Pittsburgh (May be accepted at other university/colleges)

Course Equivalent/Credits: University of Pittsburgh Latin 0210 / 3 credits

Cost: \$75 per credit/\$225 (2023-24)

Registration Deadline: See Teacher

Summer Assignment: Yes

HONORS LATIN 5

(College in High School-University of Pittsburgh)
(#4160)

Credit Value: 1.0

Periods Per Week: 5

Semester: Full Year

Prerequisites: 80% or above in Honors Latin 4

Open to Grades: 12

Honors Latin 5 serves as an introduction to Latin poetry. Students will read selections from Books I, II and IV of Vergil's epic poem, the *Aeneid*. Students will practice reading aloud and scanning Vergil's meter, in dactylic hexameter. Students will also read the whole poem in English for in-class discussion.

This course follows the University of Pittsburgh Latin 0220 curriculum and utilizes all of its materials and assessments. Students' grades are determined by their performance on three one-hour exams, a final exam and quizzes. A student can elect to take this course for 3 college credits through the University of Pittsburgh. This is the culmination of a two-year cycle of credits offered through the University of Pittsburgh.

College/University: University of Pittsburgh (May be accepted at other universities/colleges)

Course Equivalent/Credits: University of Pittsburgh Latin 0220 / 3 credits

Cost: \$75 per credit/\$225 (2023-24)

Registration Deadline: See Teacher

Summer Assignment: Yes

SPANISH 1**(#4080)****Periods Per Week: 5****Prerequisites: Recommend a 70% or above ELA****Credit Value: 1.0****Semester: Full Year****Open to Grades: 9, 10, 11, 12**

In Spanish 1 students develop the ability to communicate about themselves and their immediate environment using simple sentences, basic language structures and extensive array of vocabulary terms. This communication is evidenced in all four language skills - listening, speaking, reading and writing. Students will cover units of study that include friends, peers, adults, school, school materials, clothing shopping, food, restaurants, family, homes and much more.

This course's primary goals, aligned with the national standards, are to communicate in Spanish, understand other cultures, connect with other disciplines and acquire information, develop insight into one's own language and culture, and participate in the global community.

SPANISH 2**(#4085)****Periods Per Week: 5****Prerequisites: 70% or above in Spanish 1****Credit Value: 1.0****Semester: Full Year****Open to Grades: 9, 10, 11, 12**

In Spanish 2 students continue to develop proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. Students learn to function in real-life situations using more complex sentences and language structures. They read material on familiar topics and produce short writing samples. Students continue to explore as they study the themes of Home Life, Student Life, Leisure Time, Vacation and Travel, and Telecommunications.

This course's primary goals, aligned with the national standards, are to communicate in Spanish, understand other cultures, connect with other disciplines and acquire information, develop insight into one's own language and culture, and participate in the global community.

SPANISH 3**(#4090)****Periods Per Week: 5****Prerequisites: 70% or above in Spanish 2****Credit Value: 1.0****Semester: Full Year****Open to Grades: 10, 11, 12**

In Spanish 3 students will continue to expand and develop the four skill areas of reading, writing, speaking and listening. Students are expected to apply Level 1 and 2 grammar, vocabulary, and concepts in their Spanish 3 work. Themes covered in Spanish 3 target situational proficiency in the areas of travel, food preparation, shopping, leisure activities, medical topics, city and country life and more.

This course's primary goals, aligned with the national standards, are to communicate in Spanish, understand other cultures, connect with other disciplines and acquire information, develop insight into one's own language and culture, and participate in the global community.

HONORS SPANISH 4**Credit Value: 1.0****(College in High School-University of Pittsburgh)****(#4095)****Periods Per Week: 5****Semester: Full Year****Prerequisites: 89% or above in Spanish 3****Open to Grades: 11, 12**

Honors Spanish 4 curriculum is aligned to the national standards and its course's primary goals are to: communicate in Spanish, understand other cultures, connect with other disciplines, develop insight into one's own language / culture, and participate in the global community.

Instruction in the classroom is entirely in Spanish and students are expected to speak only Spanish. At the conclusion of this course students will be able to speak Spanish well enough to fluently communicate on a variety of topics important in Latin cultures beyond those needed to "survive" in the foreign culture. Students will gain the ability to discuss topics beyond themselves and their immediate surroundings; they will be able to discuss politics, social issues, the media and the future. Gradually, they will find it easier to elaborate with greater detail and link ideas together into more complex sentences. Students will see an increased ability to reference past or future events with less hesitation and greater accuracy. In addition, literacy skills in Spanish will be developed through the communicative acts of reading, writing, and creating discourse around materials of all types.

This course follows the University of Pittsburgh Spanish 003 curriculum and utilizes all of its materials and assessments. A student can elect to take this course for 3 college credits through the University of Pittsburgh.

College/University:	University of Pittsburgh (May be accepted at other universities/colleges)
Course Equivalent/Credits:	University of Pittsburgh SPAN 0103 / 3 credits
Cost:	\$75 per credit/\$225 (2023-24)
Registration Deadline:	See Teacher
Summer Assignment:	Yes

HONORS SPANISH 5**Credit Value: 1.0****(College in High School-University of Pittsburgh)****(#4105)****Periods Per Week: 5****Semester: Full Year****Prerequisites: 80% or above in Honor Spanish 4****Open to Grade: 12**

Honors Spanish 5 curriculum is aligned to the national standards and its course's primary goals, are to: communicate in Spanish, understand other cultures, connect with other disciplines, develop insight into one's own language / culture, and participate in the global community.

Instruction in the classroom is entirely in Spanish and students are expected to speak only Spanish. At the conclusion of this course students will be able to speak Spanish well enough to fluently communicate on a variety of topics important in Latin cultures beyond those needed to "survive" in the foreign culture. Students will gain the ability to discuss topics beyond themselves and their immediate surroundings; they will be able to discuss politics, social issues, the media and the future. Gradually, they will find it easier to elaborate with greater detail and link ideas together into more complex sentences. Students will see an increased ability to reference past or future events with less hesitation and greater accuracy. In addition, literacy skills in Spanish will be developed through the communicative acts of reading, writing, and creating discourse around materials of all types.

This course follows the University of Pittsburgh Spanish 0104 curriculum and utilizes all of its materials and assessments. A student can elect to take this course for 3 college credits through the University of Pittsburgh. This is a culmination of a two-year cycle of credits offered through the University of Pittsburgh.

College/University: University of Pittsburgh (May be accepted at other universities/colleges)**Course Equivalent/Credits:** University of Pittsburgh SPAN 0104 / 3 credits**Cost:** \$75 per credit/\$225 (2023-24)**Registration Deadline:** See Teacher**Summer Assignment:** Yes