

Course Guide

2018-2019



CHARLEROI AREA HIGH SCHOOL

100 Fecsen Drive

Charleroi, PA 15022

Phone: 724-483-3573

Fax: 724-483-2294

Website: www.charleroisd.org

Dr. Edward Zelich	Superintendent
Dr. Patricia Mason	-- Principal
Mrs. Amy Nelson	-- Assistant Principal
Mrs. Gina Cotton	-- Counselor
Mrs. Janet Toth	-- Counselor

Table of Contents

Graduation Requirements	2
English	8
Math	19
Social Studies	26
Science	30
Computers and Business	37
World Language	41
Technology Education	44
Family Consumer Sciences	48
Art	50
Music	54
Health and Physical Education	56
Mon Valley Career & Technology Center	58
NCAA Information	60

GRADUATION REQUIREMENTS

The minimum requirements for graduation from Charleroi Area High School are outlined in this section. Graduation is based on the subjects completed in grades nine through twelve. Students will be assisted in the development of a program of study in keeping with their interests and abilities, but they will be expected to assume responsibility for meeting the minimum requirements. In addition, the Class of 2020, Class of 2021, and Class of 2022 students must reach a level of proficiency on the state mandated tests to be eligible for graduation. NCAA initial eligibility process, Division I worksheet, and Division II worksheet can be found at the end of this course guide.

Graduation Requirements for the Honors Course

To graduate from Charleroi Area High School, students must successfully earn a total of 25 required credits during grades 9-12.

Four English Language Arts Courses (Honors required grades 9-11 Honors or AP English required in 12 th)	4.0 credits
Four Mathematics Courses (Honors Algebra II, Honors Geometry, Honors Trig) (Choice of Honors Calculus or Prob/Stats)	4.0 credits
Four Science Courses (Honors Biology, Honors Chemistry, Honors Physics, and one additional from the following: AP Biology, AP Physics, AP Chemistry, Honors Anatomy & Physiology)	Minimum of 5.0 credits
Three Social Studies Courses (US/PA History, Modern American History, and World Cultures required)	3.0 credits
World Language (Two years same language)	2.0 credits
Computers (Introduction to Computers Required) (One additional computer class OR Architecture Design)	1.0 credit
Health and Physical Education	2.0 credits
Arts and Humanities electives <ul style="list-style-type: none"> Arts include art, engineering, family and consumer sciences courses, industrial technology courses, band, and chorus. Humanities include foreign language elective or extra social studies. 	2.0 credits
Additional Electives	Minimum of <u>2.0 credit</u>
	25.0 credits

In addition, Class of 2020, Class of 2021 and Class of 2022 students must reach a level of proficiency on the state mandated tests to be eligible for graduation. Students may be placed automatically into test strategies courses for additional remediation and test readiness.

Graduation Requirements for the Academic Course

To graduate from Charleroi Area High School, students must successfully earn a total of 25 required credits during grades 9-12.

Four English Language Arts Courses (Academic English required 9-12)	4.0 credits
Four Mathematics Courses (Academic Algebra I, Academic Algebra II, Academic Geometry, Academic Trig)	4.0 credits
Three Science Courses (Academic Biology, Academic Chemistry required)	3.0 credits
Three Social Studies Courses (US/PA History, Modern American History, and World Cultures required)	3.0 credits
World Language (Two years same language)	2.0 credits
Computers (Introduction to Computers Required) (One additional computer class OR Architecture Design)	1.0 credit
Health and Physical Education	2.0 credits
Arts and Humanities electives	2.0 credits
<ul style="list-style-type: none">• Arts include art, engineering, family and consumer sciences courses, industrial technology courses, band, and chorus.• Humanities include foreign language elective or extra social studies.	
Additional Electives	<u>4.0 credits</u>
	25.0 credits

In addition, Class of 2020 Class of 2021, and Class of 2022 students must reach a level of proficiency on the state mandated tests to be eligible for graduation. Students may be placed automatically into test strategies courses for additional remediation and test readiness.

Graduation Requirements for the Core Course

To graduate from Charleroi Area High School, students must successfully earn a total of 25 required credits during grades 9-12.

Four English Language Arts Courses (English required 9-12)	4.0 credits
Four Mathematics Courses (Algebra IA, Algebra IB, Applied Geometry and choose from Real World Math or Academic Algebra II)	4.0 credits
Three Science Courses (Core Biology required)	3.0 credits
Three Social Studies Courses (US/PA History, Modern American History, and World Cultures required)	3.0 credits
Computers (Introduction to Computers Required) (One additional computer class OR Architecture Design)	1.0 credit
Health and Physical Education	2.0 credits
Arts and Humanities electives	2.0 credits
<ul style="list-style-type: none">• Arts include art, engineering, family and consumer sciences courses, industrial technology courses, band, and chorus.• Humanities include foreign language elective or extra social studies.	
Additional Electives	<u>6.0 credits</u>
	25.0 credits

In addition, Class of 2020 Class of 2021, and Class of 2022 students must reach a level of proficiency on the state mandated tests to be eligible for graduation. Students may be placed automatically into test strategies courses for additional remediation and test readiness.

Grading Scale

Student progress and achievement will be reported as follows:

100%- 90%	= A	I = Incomplete
89 % - 80%	= B	
79 % - 70%	= C	
69 % - 60%	= D	
59 %- 0%	= F	

Course Changes

Course changes will be made **only** in the event of scheduling errors, academic misplacements and scheduling conflicts.

Class Standing

The minimum number of credits necessary for advancement is listed below, although the principal may use discretionary powers in unusual circumstances to waive the standards:

Advancement to:	
Grade 10 -	4.75 credits
Grade 11 -	10.75 credits
Grade 12 -	17.75 credits

Class rank will be reported at the end of the academic year only.

Credit Deficiencies

A credit deficiency, which occurs through a subject failure, may be resolved by repeating the course or by attending summer school. It is the student's responsibility to reschedule any credit deficiencies. However, students must get approval in advance from the counselor. Correspondence courses are not accepted.

Withdrawal from Class

No credit will be given for any course that has not been completed.

Graduation Honors

A student is recognized as a high honor student in the Commencement Program if his/her final academic average at the end of grade 12 is a minimum of 94% average.
A student is recognized as an honor student in the Commencement Program if his/her final academic average at the end of grade 12 is a minimum of 84% average.

Advanced Placement and Honors Courses

We are a percentage based school, and courses with an Honors or Advanced Placement designation will have a 1.05 multiplier. A student will not receive the 1.05 multiplier if they receive below an 80% for the quarter. These courses will also be given extra "weight" towards GPA. The grade-weight for these courses will be A –5 points, B –4 points, C –3 points, D –1 point, and F –0 points. Listed below are the courses that receive extra "weight". All courses may not be offered every year depending on demand.

AP English	Honors English – 9, 10, 11, 12
AP US History	Honors Algebra
AP Physics	Honors Geometry
AP Biology	Honors Algebra II
AP Chemistry	Honors Trigonometry
AP Art – 2D	Honors Calculus
AP Art – 3D	Honors Probability/Statistics
AP Art - Drawing	Honors Biology
	Honors Chemistry
	Honors Organic Chemistry
	Honors Physics
	Honors Anatomy & Physiology
	Honors Spanish IV
	Honors French IV

English



Summer Reading Policies

Charleroi Area High School English Department

English course selection/enrollment will be completed with your guidance counselor.

Distribution

1. Summer reading assignments will be distributed to incoming Advanced Placement, Honors, and Academic English students at the end of the previous school year.
2. New students who enroll in the district over the course of the summer will receive summer reading assignments from the high school guidance office prior to the start of the school year.
3. New students who enroll in the district on or after the first day of school will receive summer reading assignments from their respective English teacher.

Requirements

As summer reading work is effectively the first English unit of the year, it is imperative that students complete the required readings for effective participation in class and assessment.

1. Advanced Placement, Honors and Academic English students who receive summer reading assignments prior to the start of the new academic year are expected to have the assignments completed by the due date specified by the assigning teacher.
2. New Advanced Placement English or Honors English students who enroll in the district **on or after the first day of school** will be required to read all assigned reading AND complete all summer reading assignments no later than mid-quarter. Reading must be done in a timely manner in an effort to keep up with the pace of the class.
3. New Academic English students who enroll in the district **on or after the first day of school** will be required to read all assigned reading but will be exempt from written summer reading assignments. Reading must be done in a timely manner in an effort to keep up with the pace of the class.

Class Transfers

1. Students are not permitted to transfer from one level English class to another after receiving summer reading assignments. However, if an extenuating circumstance occurs, the following applies:
Students who transfer from one class to another on or after the first day of school will receive a grade for the summer reading completed for the previous class. (If no work was completed the student will receive a zero for summer reading and will not be permitted to make-up work.) Once enrolled in his/ her new English class, the student will be required to read all of that course's assigned reading. Reading must be done in a timely manner in an effort to keep up with the pace of the class.

Academic English**1 Credit****Grade 9****Prerequisite: Successfully complete English 8****Summer readings are required to be completed before the fall term begins.**

The ninth grade academic course in English encompasses materials in the areas of literature, vocabulary, writing, grammar, and speaking in accordance with the Common Core Standards. Students in the academic course will read, analyze, write about, and speak about works of fiction and nonfiction throughout the year. Students can expect units on short stories, poetry, novels, the play *Romeo and Juliet*, and a variety of nonfiction pieces including Elie Wiesel's Holocaust memoir, *Night*. Independent reading will also be utilized throughout the course. The variety of texts is designed to help students gain an appreciation of the written and spoken word. Students will be expected to complete research, write and revise single and multi-paragraph writings, and create individual and group projects and presentations to demonstrate learning according to the Common Core Standards. The writing of the course begins with the structure of a single paragraph and continues with composition development throughout the year. Students identify the audience and purpose for informational, narrative, and persuasive writing pieces. In addition, the course addresses the characteristics of effective writing: focus, content, organization, style and conventions. Through the writing process students learn to develop, organize, and express their ideas with clarity. In addition, students will take various benchmark exams and practice assignments to help prepare and monitor progress toward the forthcoming Keystone exams at the end of the tenth grade English course.

Honors English**1 Credit****Grade 9****Recommendation: A 90% average in English 8 AND a 90% in Reading 8.****Summer readings are required to be completed before the fall term begins.**

The ninth grade Honors English program encompasses college preparatory material in the area of literature, vocabulary, writing, and speech. The literature covers a variety of genres from a blend of both classics and American literature. The course is designed to cover the ninth grade college preparatory curriculum plus additional work in the areas of literature, grammar, and speech. The intensity of instruction is significantly increased in the study of literature through greater number of literary selections provided for reading and analysis. Students are scheduled for Honors placement by virtue of their academic achievements, teacher recommendation, and guidance input. Summer reading assignments are incorporated into the high school Honors English program for every grade level and will be reviewed at the beginning of the year.

Core English**1 Credit****Grade 10****Prerequisite: Successful completion of any ninth grade English Course**

The Tenth Grade Core course in English encompasses material in the areas of literature, vocabulary, writing, and speaking. The course will also demonstrate, through the year's work, the common core standards for reading, writing, speaking and listening. Students will be expected to complete with efficiency the benchmarks based on the common core standards and objectives. All course work will be initiated through more hands-on analysis and more group integrated activities. The literature covers a representation of world literature including a variety of genres. Examples of genres include the following: nonfiction, fiction, poetry, and drama. Subgenres will also be analyzed within those genres. The vocabulary is contextually motivated and explores definitions, synonyms, antonyms and pronunciation. Multi-paragraph compositions will be developed based on writing standards of focus, content, organization, style and conventions. Oral presentation will include interpretation and explication of appropriate poems. Students will take the Keystone Literature Exam at the end of this course.

Academic English**1 Credit****Grade 10****Recommendation: A 70% average in Academic English 9 or an 80% average in Core English 9. Summer readings are required to be completed before the fall term begins.**

The Tenth grade English Academic course encompasses college preparatory material in the areas of literature, vocabulary, writing and speaking. The course also demonstrates through heightened college preparatory work the common core standards for reading, writing, speaking and listening. Students will be expected to complete with a higher standard the benchmarks based on the common core standards and objectives. The literature covers a variety of genres from a representative list of classic and world literature. Examples of genres include the following: nonfiction, fiction, poetry, and drama. Subgenres will also be analyzed within those genres. Students will be expected to analyze, evaluate, and respond to the literature through multi-paragraph compositions while incorporating specific units of grammar, mechanics, usage and various writing modes based on the writing standards: focus, content, organization, style, and conventions. The academic student will also complete comprehensive units of vocabulary in preparation for the PSATs. In addition, the student will also complete contextual word studies. Students will also orally present passages from literature as well as interpretation and explication of selected poems. Students will take the Keystone Literature Exam at the end of this course.

Honors English**1 Credit****Grade 10****Recommendation: An 80% average in Honors English 9 or a 90% Academic English 9. Summer readings are required to be completed before the fall term begins.**

The Tenth grade English Honors course encompasses college preparatory material plus additional work, which will be demonstrated through the common core standards for reading, writing, speaking and listening. The intensity of the course work will be especially expanded in the areas of literature and writing, not only in the area of analysis and interpretation, but also in the number of literary selections read. Students will be expected to complete with the HIGHEST academic standards the benchmarks based on the common core standards and objectives. The literature will cover a variety of genres from a representative list of classic and world literature. Students will be expected to analyze, evaluate, and respond to the literature through multi-paragraph compositions incorporating specific units of grammar, mechanics, usage, and writing modes based on the Pennsylvania writing assessment domain scoring guides: focus, content, organization, style and conventions. The honors student will also complete units of vocabulary in preparation for the PSAT's. In addition, the student will orally present passages from literature as well as interpretation and explication of selected poems. Summer reading assignments are incorporated into the high school Honors English program for every grade level and will be reviewed at the beginning of the year. Students will take the Keystone Literature Exam at the end of this course.

Core English**1 Credit****Grade 11****Prerequisite: Successfully complete any English 10 course.**

The Eleventh Grade Core course in English encompasses material in the areas of literature, vocabulary, writing, and speaking. The course will also demonstrate, through the year's work, the Common Core standards for reading, writing, speaking and listening. Students will be expected to complete with proficiency the benchmarks based on the common core standards and objectives. The literature covers a representation of American literature with a focus on modern American authors. Single and multi-paragraph compositions will be developed based on the Pennsylvania writing standards: focus, content, organization, style, and conventions. Individual oral presentations; group presentations; independent readings and corresponding projects; and technology based projects will be required throughout the year.

**Academic English
Grade 11****1 Credit****Recommendation: A 70% average in Academic English 10 or 80% average in Core English 10. Summer readings are required to be completed before the fall term begins.**

The Eleventh Grade academic course in English will prepare students for the demands of college level work in the areas of literature, vocabulary, writing, and speaking. The course will also demonstrate, through the year's work, the common core standards for reading, writing, speaking and listening. Students will be expected to complete with a higher standard the benchmarks based on the common core standards and objectives. The literature covers a representation of American literature with a focus on modern American authors. Students will be expected to analyze, evaluate, and respond to the literature through a variety of oral and written assignments. Single and multi-paragraph compositions will be developed based on writing standards: focus, content, organization, style, and conventions. Individual oral presentations; group presentations; independent readings and corresponding projects; and technology based projects will be required throughout the year.

**Honors English
Grade 11****1 Credit****Recommendation: An 80% average in Honors English 10 or 90% average in Academic English 10. Summer readings are required to be completed before the fall term begins.**

The Eleventh Grade Honors course in English will prepare students for the demands of college level work in the areas of literature, vocabulary, writing, and speaking. The course will also demonstrate, through the year's work, the common core English standards for reading, writing, speaking and listening. The intensity of the course work will be especially expanded in the areas of literature and writing, not only in the area of analysis and interpretation, but also in the number of literary selections read. Students will be expected to complete with the highest academic standards the benchmarks based on the common core standards and objectives. The literature covers a representation of American literature with a focus on modern American authors. Students will be expected to analyze, evaluate, and respond to the literature through a variety of oral and written assignments. Single and multi-paragraph compositions will be developed based on writing standards: focus, content, organization, style, and conventions. Individual oral presentation; group presentations; independent readings and corresponding projects; and technology based projects will be required throughout the year. In addition to their considerable reading load during the year, honors students are expected to read four novels during the summer months; summer reading novels, depending on assignment, are assigned by the teacher, student selected from the AP book list, or student selected based on individual interest. Students will develop and exhibit a self-directed, independent learning style as well as a sharing of their insights orally, much in the style of a college seminar course.

Core English**1 Credit****Grade 12****Prerequisite: Successfully complete any eleventh grade English course.**

This course is designed to practice and polish the students' reading, writing, and speaking skills. At least three contemporary novels of high quality and social significance are carefully read, discussed, and written about extensively. Students will write and use Standard English and proper mechanics consistently. Students in this course will have access to digital media as well as standard books. Single and multi-paragraph compositions as well as a writing portfolio will be developed based on writing standards: focus, content, organization, style and conventions. Speaking skills will be addressed via multimedia projects and presentations. Students will also be expected to complete a senior project. Students will be guided through a career awareness/resume' building process. Students are expected to complete a resume', participate in a mock senior interview, and participate in a job shadowing experience.

Academic English**1 Credit****Grade 12****Recommendation: A 70% average in Academic English 11 or an 80% average in Core English 11. Summer readings are required to be completed before the fall term begins.**

The academic course is designed to prepare college-bound students to read, write and think with the competence necessary for them to succeed in post high school education. British literature and poetry, both classic and contemporary, are the focus of this college preparatory course. Students in this course will have access to digital media as well as standard books. Students will be expected to analyze, evaluate, and respond to the literature through a variety of oral and written assignments. Single and multi-paragraph compositions as well as a writing portfolio will be developed based on writing standards: focus, content, organization, style and conventions. Speaking skills will be addressed via multimedia projects and presentations. Students will also be expected to complete a senior project. Students will be guided through a career awareness/resume' building process. Students are expected to complete a resume', participate in a mock senior interview, and participate in a job shadowing experience.

Honors English 12**1 Credit****Grade 12**

Recommendation: An 80% average in Honors English 11 or a 90% average in Academic English 11. Summer readings given at the end of 11th grade are required to be completed before the fall term begins.

The Twelfth Grade Honors course in English will prepare students for the demands of college level work in the areas of literature, vocabulary, writing and speaking. The course will also demonstrate, through the year's work, the common core English standards for reading, writing, speaking and listening. The intensity of the course work will be especially expanded in the areas of literature and writing, not only in the area of analysis and interpretation, but also in the number of literary selections read. Students will be expected to complete with the highest academic standards the benchmarks based on the common core standards and objectives. The literature covers a representation of British literature ranging from the 400's to the modern era. Students will be expected to analyze, evaluate, and respond to the literature through a variety of oral and written assignments. Single and multi-paragraph compositions as well as a major research paper will be developed based on writing standards: focus, content, organization, style and conventions. Individual oral presentation; group presentations; independent readings and corresponding projects; and technology based projects will be required throughout the year. Students will also be expected to complete a senior project. Students will be guided through a career awareness/resume' building process. Students are expected to complete a resume', participate in a mock senior interview, and participate in a job shadowing experience.

AP English 12**1 Credit****Grade 12**

Recommendation: An 80% average in Honors English 11 or a 90% average in Academic English 11. Summer readings given at the end of 11th grade are required to be completed before the fall term begins.

The rigorous, college-level course, approved by the AP College Board is designed to help advanced students to strengthen their skills as careful readers of challenging literary texts, and to become attentive to the role that language and form play in aesthetic production. Although the course will concentrate on "close reading," it is not restricted to the New Critical understanding of this practice; rather the course shall explore, in psychoanalytic, materialist, and deconstructive terms, a wide range of literary genres written in various historical periods. Poetry, drama, and prose works range from 1600 to the present; students will connect the works to the time period and the importance they play on society and vice versa. Extensive outside readings are mandatory throughout the year. Student in this course will have access to digital media as well as standard books. In Socratic-style, students will be called upon to share writings, analysis, and thoughts about assigned readings. Writing shall focus on expository and persuasive essays modeled upon the AP format. Students are required to submit several major papers, as well as an extensive research paper. Speaking skills will be addressed via multimedia projects and presentations. AP students will be guided through a career awareness/resume' building process. Students are expected to complete a resume', various types of applications, and use their skills in a mock senior interview. Students enrolled in this course shall be expected to participate in the AP Exam for university credit or advanced standing.

Completion of the AP course does not guarantee a satisfactory score on the College Board AP Exam.

Test Strategies: ELA**1/2 Credit****Grade 9-11****Prerequisite: Standardized test score or teacher recommendation.**

This course is designed to assist students in attaining advanced or proficient levels on state mandated testing in reading and writing. An additional goal of the course is to reduce testing anxiety associated with standardized testing. Using a diagnostic approach, students are provided with valuable, guided practice in reading and writing selections. Students are taught to use appropriate reading comprehension strategies to successfully complete reading performance tasks and are taught a systematic approach to writing a successful Constructed-Responses. The course materials and instructions are highly differentiated to accommodate for learner differences. The course reinforces core concepts taught and applied in English courses. In addition, students are taught essential skills for vocabulary recognition and comprehension. Writing practice focuses on enhancing the student's ability to answer Constructed-Response questions with a focus on the ability to explain, analyze, describe, or compare.

English Electives*These courses will not be offered every year.***Communication Skills****1/2 Credit****Grade 9-12****(This course will not be offered every year)**

Whether public speaking is something that you love to do or something that you know you need to improve, this is the course for you. This course is designed to show you that public speaking does not have to be intimidating, in fact, it can be fun! This course will provide students with the tools to both compose and deliver various types of speeches. In addition, through practice, students will develop the skills necessary to communicate in a variety of speaking situations such as small and large group discussion with a variety of audience members. The positive atmosphere maintained in this class sets the tone for a valuable and successful learning experience.

Creative Writing I**1/2 Credit****Grade 9-12****(This course will not be offered every year)**

Are you a creative person? Do you enjoy personal journaling, story writing, poetry writing, or lyric writing? If so, Creative Writing I is the perfect course for you to explore the powers of writing within your life. This course will expose you to a variety of writing types including short story fiction, poetry, and non-fiction writing. Additionally, it will help to facilitate creativity by introducing many writing exercises designed to draw from and expand upon your powers of observation, imagination, and language use. Ideas will be sparked, confidence acquired, and you'll gain a sense of purpose within your writing. Most writings will be shared in the classroom forum for student-to-teacher and peer-to-peer critiquing, editing, and revision. At the culmination of the course, students will have a working portfolio with many pieces of original writing and a collection of exercises from which they might create more original works.

Creative Writing II**1/2 Credit****Grade 10-12****Prerequisite: Successful completion of Creative Writing I.****(This course will not be offered every year)**

Creative Writing II will expand upon the foundations of Creative Writing I. Students will learn complementary and more advanced writing exercises and workshop techniques allowing the student to continue developing his/her creative process. Students will produce new works and will also revise elements of the original portfolio. A primary focus of the Creative Writing II course allows the students to select an independent area of study; students will select a primary interest area (short story, poetry / lyric writing, non-fiction writing) and compose a work or collection of works based upon student interest and ability level. The focus of this course will be to produce multiple finished-product writings that have undergone multiple revisions and are worthy of productions in a student publication. At the culmination of this course, students will assemble a classroom publication of works submitted by each member of the course. The publication will be designed by the students to display their creativity through both the writing of the pieces and visual arrangement of the pieces and supplemental artwork. Additionally, students will be encouraged to enter their finished products within the many scholarship and writing competitions that are advertised each year.

American Drama**1/2 Credit****Grade 10-12****Prerequisite: Successful completion of English 9.****(This course will not be offered every year)**

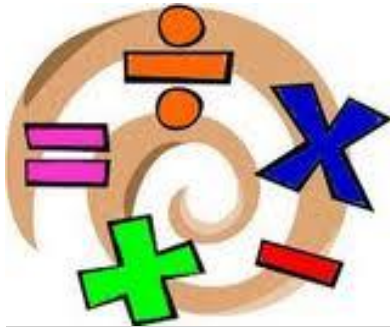
"My greatest hope for a play is always that it might prove generative of thought, contemplation, discussion—important components of what I think we want from our entertainments...I have always believed theater can be a useful part of our collective and individual examining." Tony Kushner, from *Homebody/Kabul*

This course uses US American theater as a means to analyze change. The theater is a place where change and a call to action for change is often articulated. Drama often acts as a catalyst to challenge and change societal norms. We will consider the notion that theater does not only reflect the world, but also attempts to change it—to make it better. In order to accomplish this goal, we will read plays, theater reviews, literary criticism, write thoughtful and thought provoking responses and have meaningful class discussion. Film comparisons or short performances may accompany some plays. A variety of projects and assignments, quizzes, and exams will be used to assess performance in the class. This class is less about performing and more about discussing the impact of drama and theatre on society. If you are a person that loves to read and participate in class discussion, this class is for you!

World Mythology**1/2 Credit****Grade 10-12****Prerequisite: Successful completion of English 9.****(This course will not be offered every year)**

Have you ever wanted to escape to a magical land? Have you ever wondered if a commoner can really become a prince or princess? Was one man *really* able to pull a sword from a stone and rule all of Britain? Did the ancient Mayans really predict the end of the world? How often did Gods and Goddesses champion Greeks and Romans? Was the creation of the Aztec world really reliant on two or three "people"? Well...take World Mythology and find out! In this course we will explore a variety of creation myths, classical myths, Arthurian legend, tales of rags to riches and much more! A variety of projects and short writing assignments (in the proper formats, of course) will accompany each tale. Film study comparisons may be necessary to some of the myths and tales as well. Be ready for a quiz or two per story, but most of all...ENJOY what we read! So much of what current society is built upon are the ideals and dreams of some of the characters and civilizations we will discover. If you are creative and love a good story, this is the class for you!

Math



What math class do I take next year?

Currently Enrolled in	With This Average	Take Next Year
Math 8	0-89%	Algebra IA
	90-100% and pass Algebra eligibility exam	Algebra I
Accelerated Math 8	0-79%	Algebra IA
	80-100% and fail Algebra eligibility exam	Algebra IA
	80-100% and pass Algebra eligibility exam	Algebra I
Algebra I	60-69%	Algebra IB
	70-89%	Academic Algebra II
	90-100%	Honors Algebra II
Algebra IA	60-89%	Algebra IB
	90-100%	Algebra I
Algebra IB	60-89%	Applied Geometry
	90-100%	Academic Algebra II
Academic Algebra II	60-69%	Applied Geometry
	70-89%	Academic Geometry
	90-100%	Honors Geometry
Honors Algebra II	60-79%	Academic Geometry
	80-100%	Honors Geometry

What math class do I take next year?

Currently Enrolled in	With This Average	Take Next Year
Applied Geometry	60-89%	Real World
	90-100%	Academic Algebra II
Academic Geometry	60-69% in 11th grade	Real World
	60-69% in 10th grade	Academic Trigonometry
	70-89%	Academic Trigonometry
	90-100%	Honors Trigonometry
Honors Geometry	60-79%	Academic Trigonometry
	80-100%	Honors Trigonometry
Academic Trig	60-69%	Real World
	70-89%	Academic Probability & Statistics
	90-100%	H. Calculus and/or H. Prob/Stats
Honors Trig	60-79%	Academic Probability & Statistics
	80-100%	H. Calculus and/or H. Prob/Stats

Algebra IA**1 Credit****Grade 9****Recommendation: Successful completion of Math 8; less than 80% average in Accelerated Math 8.**

Algebra 1A is the first half of the study of Algebra 1. Concepts such as the order of operations involving rational numbers will be reviewed before focusing on solving various forms of equations, which will be the foundation for this course. A large focus will be on slope, the various forms of linear equations, functions, and data analysis. Connections will be made between functions, tables, and graphs throughout the course. Upon successful completion of Algebra 1A, students will take Algebra 1B to complete the Algebra 1 sequence.

Algebra IB**1 Credit****Grade 10****Recommendation: An 80 average in Accelerated Math 8 without a passing score on the Algebra eligibility exam; a 60-89% average in Algebra IA; a 60-69% average in Algebra I**

Algebra 1B is the second half of the study of Algebra 1. The course will begin by reviewing concepts learned in Algebra 1A. An in-depth analysis of linear equations and one- and two-variable inequalities will be the main focus of this course, with an emphasis on systems of equations and inequalities. Operations with real numbers such as properties of exponents, operations with polynomials, and factoring quadratics will also be covered. Students will take the Algebra 1 Keystone Exam at the end of this course.

Applied Geometry**1 Credit****Grade 11****Recommendation: A 60-89% in Algebra IB; a 60-69% in Academic Algebra II**

Applied Geometry focuses on the study of points, lines, planes, angles, polygons, circles, and 3-dimensional figures. This course takes a less theoretical approach than its academic counterpart, focusing more on real-world applications. Knowledge of solving equations is essential for successful completion of this course.

Real World Math**1 Credit****Grade 12****Recommendation: A 60-89% average in Applied Geometry; a 60-69% in Academic Trigonometry; a 60-69% in Academic Geometry in 11th grade**

Real World Math is a course designed to help students prepare for the math of everyday life. Skills like writing checks, balancing a checkbook, filing tax forms, filling out loan applications and many others are presented. In addition, valuable information about making budgets, buying automobiles and houses, choosing insurance coverage, using credit and other daily life issues are covered. This course will help prepare the student for the math needed to succeed in day-to-day life.

Academic Algebra I**1 Credit****Grade 9****Recommendation: A 90% average in Math 8 and pass the Algebra eligibility exam; an 80% average in Accelerated Math 8 and pass Algebra eligibility exam; a 90% average in Algebra IA**

Academic Algebra 1 covers all the concepts of Algebra 1 in one school year. Students will take the Algebra 1 Keystone Exam at the end of this course. Concepts such as the order of operations involving rational numbers will be reviewed as well as solving various forms of equations. A large focus of the course will be on slope, the various forms of linear equations and inequalities, systems of equations and inequalities, functions, data analysis, properties of exponents, operations with polynomials, and factoring quadratics. This fast-paced course establishes the expectation for high levels of rigor and achievement in the academic track of the mathematics courses.

Academic Algebra II**1 Credit****Recommendation: A 70-89% average in Algebra I; a 90% average in Algebra IB; a 90% average in Applied Geometry**

After a brief review of basic mathematical skills and Algebra 1 concepts, the student is introduced to many new concepts such as linear equations and inequalities, systems of equations and inequalities, the complex number system, and rational exponents. The course also puts a lot of emphasis on quadratic polynomials and quadratic equations. The student will learn how to factor this type of equation and they will be responsible for graphing the equation and describing its characteristics.

Academic Geometry**1 Credit****Recommendation: A 70% average in Academic Algebra II; a 60-79% in Honors Algebra II**

Geometry is the study of points, lines, planes, angles, polygons, and circles. Practice will include examples, hands on activities, visual thinking, and written exercises. Students will be tested on material to measure understanding and retention of what has been learned. This course may be taken concurrently with Algebra II.

Academic Trigonometry**1 Credit****Recommendation: A 60-69% in average Academic Geometry during 10th grade; a 70% average in Academic Geometry; a 60-79% in Honors Geometry**

This course is an integrated course of Academic Algebra III and Trigonometry. Students in Academic Algebra III/Trigonometry will study concepts from geometric, graphing, and algebraic perspectives. The six major trigonometric functions are studied through the use of reference angles and the unit circle. Students will explore advanced algebra topics including radical equations and explore conic sections and trigonometric identities such as the Law of Sines and the Half Angle Identity.

Academic Probability and Statistics**1 Credit****Grade 12****Recommendation: A 70-89% in Academic Trigonometry; 60-79% average in Honors Trigonometry**

This course is for college bound students once they finish Trigonometry. Students will focus on data analysis, combinations, probability, and statistics. This course will help to build the foundation for students that will need to take Probability & Statistics courses in college.

Honors Algebra II**1 Credit****Recommendation: A 90% average in Algebra I**

After a brief review of basic mathematical skills and Algebra 1 concepts, the student is introduced to many new concepts such as linear equations and inequalities, systems of equations and inequalities, the complex number system, and rational exponents. The course also puts a lot of emphasis on quadratic polynomials and quadratic equations. The student will learn how to factor this type of equation and they will be responsible for graphing the equation and describing its characteristics.

Honors Geometry**1 Credit****Recommendation: A 80% average in Honors Algebra II; a 90% average in Academic Algebra II**

This course deals with the study of points, lines, planes, angles, polygons and circles. Emphasis is placed upon proofs both direct and indirect. Accelerated geometry places a great deal of importance on the use of algebra, thereby introducing the student to analytical geometry.

Honors Trigonometry**1 Credit****Recommendation: A 80% average in Honors Geometry; a 90% average in Academic Geometry**

This course is an integrated course of Algebra III and Trigonometry. Students in Honors Algebra III/Trigonometry will study concepts from geometric, graphing, and algebraic perspectives. The six major trigonometric functions are studied in depth and are the emphasis of the course. Some advanced algebra topics are also studied. Students will solve radical equations, explore conic sections, and study trigonometric identities such as the Law of Sines and the Half Angle Identity. Additionally, students will discover graphs of functions and their translations. Such graphs will include conic sections, parabolas, circles, ellipses, radical functions, and their inverses. Graphing calculators and laptops will be utilized in this class.

Honors Calculus**1 Credit****Grade 12****Recommendation: An 80% average in Honors Trigonometry; a 90% average in Academic Trigonometry**

Calculus is the reformulation of elementary mathematics through the use of a limit process. Actually, the study of Calculus involves three distinct stages: Pre-Calculus Math (analytic geometry, functions, etc.), the limit process, and new calculus formations (derivatives and integrals). Extensive use is made of programmable graphics calculators in both problem solving and exploration.

Honors Probability/Statistics or**Honors Probability/Statistics with College Credit****1 Credit****(Can be taken as a College in the High School Course through the University of Pittsburgh)****Grade 11, 12****Recommendation: An 80% average in Honors Trigonometry; a 90% average in Academic Trigonometry**

This course teaches methods of descriptive and inferential statistics. Topics include data collection and description, hypothesis testing, correlation and regression, the analysis of variance, and contingency tables. Students will draw statistical conclusions about populations based on data collected from a sample. Students may opt to participate in the College in High School option, enabling them to receive college credits through the University of Pittsburgh.

Test Strategies: Math**1/2 Credit****Grade 9-11****Prerequisites: Standardized test score or teacher recommendation.**

This is a course designed to assist students in attaining proficiency on the Algebra I Keystone exam. Course content focuses on the two modules that form the Algebra I Keystone exam: Module 1 (Operations and Linear Equations and Inequalities) and Module 2 (Linear Functions and Data Organizations). Students will also learn test taking strategies.

Social Studies



US/PA History
Grade 9**1 Credit**

Students will complete a study of the major themes in our country's history through the use of all of the social sciences, highlighting history, geography, economics, political science, and sociology. This course is a chronological study of America from the Jacksonian Era to the beginning of the twentieth century. A lecture/discussion format is used, and textbooks, maps, worksheets, and videos are utilized. Individual teachers will add, at their discretion, compositions, book reports, three-dimensional projects, oral histories, historical readings, and library research as needed to enhance learning. At the conclusion of this course, students will continue with Modern America/PA Studies.

Modern America
Grade 10**1 Credit**

Students will complete a study of the major themes in our country's history, from WWI to modern day America, through the use of all the social sciences highlighting history, geography, economics, political science, and sociology. This course is in a lecture/discussion format utilizing textbooks, maps, worksheets, videos, and supplemental historical readings concerning American heritage. Individual teachers will add, at their discretion, compositions book reports, three dimensional projects, oral histories, and research as needed to enhance learning.

World Cultures
Grade 11**1 Credit**

World Cultures is a World History course that is the chronological study of world history from the Middle Ages to the Industrial Revolution. Students will be expected to develop a global perspective of the history, geography, government, economy, and social structure of other countries. Students will investigate and discuss the historical importance of these countries' changing political structures through time. As the course progresses, students will develop their reading, writing, and discussion skills through group projects, research, hands-on geography, interdisciplinary units, and critical thinking activities. The goal of the course is to provide students with a chronological sequence of events before American history, increase cultural awareness, and identify the influence of world history on American history.

History of the Pittsburgh Region**1/2 Credit****Grade 10-12****Prerequisite: Successful completion of US/PA History**

Students will explore how powerful and influential the Pittsburgh region has been in building the country both literally and figuratively. Students will examine the relevance that industry, production, and culture has had in cultivating the rest of the country. Some of the country's best musicians emerged from the Hill District along with world renowned photographers, artists and authors made their home right here. Our histories are forged in steel, but banking, medicine, and production of premade goods for household use also saw their heyday right here in Western Pennsylvania. History of the Pittsburgh Region is a class where upon students can delve into the impact of innovations that have emerged from Western Pennsylvania in depth to help us preserve our rich local history as well as act as a catalyst in bringing success back to our region.

AP United States History**1 Credit****Grade 11, 12****Prerequisites: Successful completion of US/PA and Modern America.**

Advanced United States History is intended to prepare students for college level History courses. The course will require students to know and understand factual information and deal critically with the problems and events in U.S. History. They will assess historical materials, interpret their relevance, and determine their reliability. Students will develop skills to arrive at conclusions on the basis of an informed judgment. Students must evidence and make interpretations based on prior and newly learned knowledge. They will develop skills necessary to draw conclusions and base those conclusions on readings and research. The students will be required to present their ideas and evidence clearly and persuasively in an essay format, as well as an oral argument. Written expression and analysis will be an integral part of this course; therefore, competency of standard English grammar and usage is required, as well as mastery of the writing process. Students enrolled in this course shall be expected to participate in the AP Exam for university credit or advanced standing.

Completion of the AP course does not guarantee a satisfactory score on the College Board AP Exam.

Political Science**1/2 Credit****Grade 11-12**

Political Science is a course intended to educate students about the United States government: its form, function, and effect. The students will study topics that include: the application of the Constitution to current day, court cases that shaped our government, political ideologies, and different forms of government used by other countries, interest groups, public opinion, and the media's influence on our society. The students will need to be able to discuss topics in class using information from the textbook, independent internet research, and personal experience. This class will deepen the basic knowledge base the students have about our country, and is intended for those students who already have an interest in government, the Constitution, and politics.

Current Events
Grade 11-12**1/2 Credit**

Current Events is a course that is not rigidly designed; it is extremely topical and dependent on the “news of the day”. The students will be exposed to local, national, and global news. The students will be expected to peruse news websites as homework on a regular basis. In this course, they will become literate about the world around them and will compare the tone of different news sources, such as FoxNews, CNN, NPR, and the BBC.

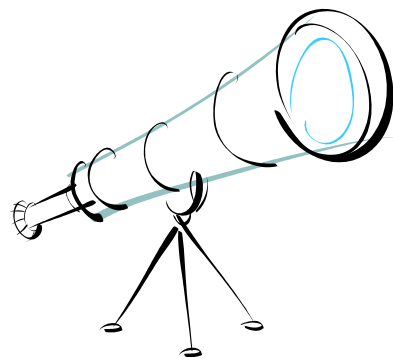
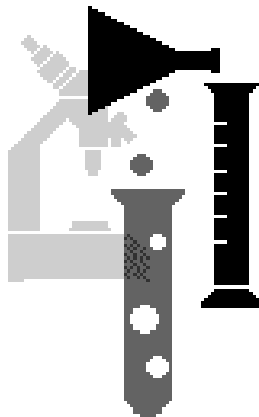
Sociology
Grade 12**1/2 Credit**

Sociology is the social science that studies human society and social behavior. Students will focus their attention on such things as the understanding of group behavior, interactions, present day social problems, basic skills in sociological research, cultural relations, adaptations, and conformity. The course also covers the social role of the environment, values and norms, tolerance for various ethnic and racial groups. As the course progresses students will build their reading, writing, and discussion skills based on reason and logic. Finally, students should be able to apply the sociological concepts to the understanding of their own lives.

Psychology
Grade 12**1/2 Credit**

Psychology is the study of the brain and human behavior. The course is intended to prepare students for a college-level course. Throughout the course, students will study the development of learning and cognitive processes, memory and thought, sleep disorders and altered states of consciousness. In addition to these, students will study personality theories. Theorists such as Freud, Skinner, and Maslow will be taught. Students will also study the concept of abnormal behavior and focus on varying types of disorders such as Bipolar, Obsessive-Compulsive, and Post-Traumatic Stress disorders. Because the course is college preparatory, students will be expected to have mastery of Standard Written English and oral communication skills.

Science



Physical Science**1 Credit****Grade 9-12****Recommendation: Successful completion of 8th grade Science**

This is a survey course of the concepts taught in chemistry and physics. This course will explore the relationship between matter and energy. This course will investigate and explore the force of motion, the chemical and physical properties of matter, certain interactions of matter with the world and the forms and properties of energy. This course uses hands on laboratory investigations to supplement the lecture. By the end of the course students should have the basic foundations of chemistry and physics.

Academic Biology**1 Credit****Grade 9****Recommendation: A 70% average in 8th grade Science**

Biology begins with a discussion of the unique properties of living organisms that set them apart from the non-living. The presentation of molecular and cellular biology follows, and gives a background for the concepts of reproduction and genetics. Understanding the continuity of life and the transmission of characteristics to offspring by hereditary determiners will give meaning to organic variations and scientific classification. Units dealing with microbiology, multi-cellular plants, invertebrate animal life, and the vertebrate animals follow in logical sequence. The progression from cell to protozoa to plant and animals will come naturally. In this systemic approach to the study of biology, the student discovers unity in the organisms. Students will take the Keystone Biology Exam at the end of this course.

Honors Biology**1 Credit****Grade 9****Recommendation: An 80% average in 8th grade Science.**

This course is designed to be an introductory course for college students intending to major in science or a related field. Students who successfully complete this course will accelerate their high school science sequence by taking chemistry in 10th grade, physics in 11th grade and an advanced placement science course in 12th grade. Course topics include: Principles of Cell Biology, Principles of Genetics, Principles of Evolution, Exploring Diversity, Exploring Plants and Exploring Invertebrates and Vertebrates. Students will take the Keystone Biology Exam at the end of this course.

Biology Keystone Strategies**1/2 Credit****Grade 9-11****Prerequisites: Standardized test score or teacher recommendation**

This is a course designed to assist students in attaining proficiency on the Biology Keystone exam. Course content focuses on the modules that form the Biology Keystone exam: Module A (Cells and Cell Processes) and Module B (Continuity and Unity of Life).

Earth/Space Science**1 Credit****Grade 10-12****Prerequisites: Successful completion of Biology.**

Earth Science is a detailed look at our planet and the processes that have shaped it. During the one year course, students will be exposed to important concepts in astronomy, meteorology, geology, the natural gas industry including Marcellus Shale drilling, and physical oceanography. The point of the course is to expose the students to the various fields in the earth sciences and to the basic content in those fields.

Astronomy I**1 Credit****Grade 11, 12****Prerequisites: Successful completion of Biology.**

This course provides a broad descriptive survey of astronomy. Topics covered include the night sky, seasons, moon phases, eclipses, tides, telescopes, light, properties of stars, stellar evolution, the Milky Way, galaxies and cosmology. This course also provides students with a survey of our solar system, including the Sun, the planets and their satellites, asteroids and comets. The history of astronomy and exploration of the solar system is also covered. Students should have a fundamental background in chemistry and physics. The school's planetarium is used to further reinforce learning in the classroom.

Astronomy II/Meteorology**1 Credit****Grade 12****Prerequisites: Successful completion of Astronomy I.**

Astronomy II is a modern astronomy course offered only to students who have completed the requirements of Astronomy I. This course covers information on the inner working of our cosmos and includes topics on spectroscopy, telescopes, the formation of our solar system, stellar evolution, and the study of galaxies. The course will also include individual research projects. Second semester of this course is designed as an introduction to the study of weather, climate and the atmosphere. Topics include solar radiation, the green house effect, temperature, humidity, clouds, air pressure, forecasting and severe weather.

Honors Anatomy & Physiology**1 Credit****Grade 11, 12****Recommendation: Successful completion of Honors Biology, a 70% average in Academic Biology, or an 80% average in Core Biology.**

Anatomy and Physiology is essentially the study of the human body. Course contents includes studies of the major body systems (integumentary, muscular, circulatory, skeletal, muscular, reproductive and nervous) as well as how the body works. Surface and internal investigations will be done through the dissection of cats. This course is designed for students intending to continue studies in the biological sciences or an occupation that requires a strong background in sciences such as nursing, medical assistants, physical therapists, etc.

AP Biology**1.5 Credits****Grade 11, 12****Recommendation: An 80% average in Honors Biology and Honors Chemistry or a 90% average in Academic Biology and/or Academic Chemistry.**

Advanced Placement Biology is a course designed for students that have a strong interest in, or desire to pursue a career in, the sciences. The AP Biology course provides an advanced science course taught on a college entry level. The basic text is a college freshmen text. Course topics include: Biological chemistry, Cell structure and function; Molecular genetics; Heredity: Evolution; Plants: Animals: and Ecology. Laboratory activities include: Mitosis and Meiosis; Plant Pigments and Photosynthesis; Cell Respiration; Transpiration; Diffusion and Osmosis; Enzyme Catalysis; Molecular Biology; Genetics of Organism; Animal Behavior; Population Genetics and Evolution; Physiology of the Circulatory system and dissolved Oxygen and Aquatic Primary Productivity. At the conclusion of the course, students may take a test prepared by the College Entrance Examination Board. The results will be certified by the testing agencies to college admissions offices for a possible standing and/or credit in the freshman year at college.

Requirement: The student will also do a written and oral report on current event issue in Biology.

Students enrolled in this course shall be expected to participate in the AP Exam for university credit or advanced standing.

Completion of the AP course does not guarantee a satisfactory score on the College Board AP Exam.

Academic Chemistry**1 Credit****Grade 10****Prerequisite: Successful completion of Biology****Recommendation: 80% average in Algebra I or 90% average in Algebra 1B**

This course is designed to provide college-bound students a solid foundation in Chemistry. Chemistry is the study of matter and change. In class, we will focus using chemistry to explain how and why things happen in both lab and the real world. Class activities will consist of lecture, chemical demonstrations, group discussion and lab work. Students will be expected to regularly communicate their understanding of material through written work and lab reports. In addition, chemistry is a quantitative science and students should expect mathematical problem solving to be a regular part of the class. Among the topics covered in class are metric system and measuring, atomic theory, chemical and physical changes, the Periodic Table, chemical bonding and reactions, heat and energy.

Honors Chemistry**1.5 Credits****Grade 10****Prerequisite: Concurrently enrolled in Algebra 2****Recommendation: Successful completion of Honors Biology or 90% average in Academic Biology.**

This course is designed for college-bound students that will likely pursue an eventual career in a science related field. Class activities will consist of lecture, group work, problem solving and lab-based inquiry. While class time will focus on solving problems, working in lab and discussing concepts, students should expect to complete a significant portion of the work outside of the classroom. Chemistry at this level is largely quantitative and is recommended that students be highly proficient in mathematical reasoning. In addition, students will be required to communicate their understanding of lab activities and class concepts through formal lab reports. Among the topics covered in this course are Atomic Theory, Periodic Law, chemical bonding and reactions, quantitative chemistry and kinetic molecular theory. It is strongly recommended that students who wish to take upper-level science courses during their senior year complete Honors Chemistry I.

Honors Organic Chemistry**1 Credit****Grade 11-12****Recommendation: An 80% average in Honors Chemistry I or a 90% in Academic Chemistry.**

The goal of this semester course is to provide a basic introduction to the fundamental principles of organic chemistry. Through self-guided instruction as well as participation in online discussions, you will learn the basics of molecular orbitals and bonding, organic nomenclature, structure, stereochemistry and simple organic reactions. In addition, you will participate in 3 to 6 after-school labs. Each of the labs will cover a skill or concept that students will be likely to encounter in college organic chemistry courses. While this course is not meant to replace other full-year science courses, it will build a solid foundation for those students that will seriously pursue the fields of chemistry/biology in college. Course work will consist of weekly study guides and online discussion questions. Students are expected to spend to 3 hours per week working through concepts and resources on Edline.

Students need to apply to take this course. Forms can be obtained from the Chemistry teacher.

AP Chemistry**1.5 Credits****Grade 11, 12****Recommendation: An 80% average in Algebra II plus an 80% average in Honors Chemistry or 90% average in Academic Chemistry.**

This course is designed for those students seeking to pursue a science major in college or seeking college credit by taking the AP Chemistry test. The class will follow the Advanced Placement curriculum, covering the six Big Ideas of chemistry; Structure of Matter, Properties and States, Reactions, Reaction Rates, Thermodynamics and Equilibrium. Course work will consist of problem solving and assigned reading on a daily basis along with weekly labs and a formal lab report per chapter. In addition, students will be expected to complete online assignments in preparation for the AP Exam. Students will be given material to review over the summer in preparation for a review exam during the first week of the course. This exam will cover measurement and conversions, lab practices, chemical formulas and reactions. The pacing of the class is rigorous, with chapter exams every two weeks along with content that students must work through independently.

Academic Physics**1 Credit****Grade 11 or 12****Prerequisites: Successful completion of Trigonometry or taking Trigonometry concurrently.**

Academic Physics takes a less mathematical approach to describing the physical world than does Honors Physics. Motion, force, energy, and waves are investigated on a conceptual level through demonstrations, lab experiments, and discussions. Though less challenging mathematically, Academic Physics gives the student insight into the fascinating laws of the physical world.

Honors Physics**1.5 Credits****Grade 11 or 12****Prerequisites: Concurrently enrolled in Trigonometry****Recommendation: Successful completion of Honors Chemistry or 90% average in Academic Chemistry.**

Honors Physics is designed for the college bound student who is considering a major in Science or Engineering. The course takes an algebra-based mathematical approach to describing the physical world and how nature works. Many demonstrations, lab experiments, and discussions explore a variety of topics: Newtonian mechanics; work, energy and power; and mechanical waves and sound. It will also include electric circuits and light properties. Though challenging, the interested student will find that physics isn't just confined to the classroom, but is everywhere and it can be fun!

AP Physics – B1**1.5 Credits****Grade 11, 12****Recommendation: An 80% average in Honors Physics.**

Advanced Placement Physics is a college level course for the student with a desire to pursue a career in science or engineering. The course covers Newtonian mechanics (including rotational dynamics and angular momentum), work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits and light properties (including mirrors and lenses.) Along with demonstrations and laboratory work, the course places an emphasis on analytical problem solving skills. The course covers the material included on the standard Advanced Placement Exam prepared by the College Entrance Examination Board. The results will be certified by the testing agency for possible credit in the freshman year of college. Students enrolled in this course shall be expected to participate in the AP Exam for university credit or advanced standing.

Completion of the AP course does not guarantee a satisfactory score on the College Board AP Exam.

Computers and Business



Personal Finance**1/2 Credit****Grade 11-12****Prerequisites: Successful completion of 10th grade**

The goal of Personal Finance is to help students to become financially responsible members of society. This course will develop students understanding and skills in such areas as banking, credit cards, loans, housing, saving, investing, taxes, and insurance. Students will analyze their personal financial decisions as well as evaluate the costs and benefits of their decisions. This course will provide a foundation for making informed personal financial decisions that students may encounter in practical real life situations.

Accounting I**1 Credit****Grade 10-12****Prerequisites: Successful completion of 9th grade.**

Accounting I is the practice of keeping systematic financial records. The course is designed to provide students with an understanding of how business finances are managed. The accounting cycles for sole-proprietorships and corporations will be the focus of the class. This course is recommended for college-bound students interested in business, as well as career and vocational students.

Accounting II**1 Credit****Grade 11, 12****Prerequisites: Successful completion of Accounting I.**

Accounting II provides students the opportunity to apply the basic principles in Accounting I to a variety of bookkeeping and accounting systems commonly found in business. The accounting activities for a corporation will be the focus of the class. Automated accounting will be utilized to complete various accounting processes. This course is recommended for college-bound students interested in business, as well as career and vocational students.

Exploring Careers**1/2 Credit****Grade 9-12****Prerequisites: Successful completion of 8th grade.**

Exploring Careers takes a unique approach to career planning by using a self-discovery process to match a career area to a student and by equipping students with the tools they need to develop and implement their own personal career plans. Students who successfully complete this course will be more self-confident about taking responsibility for the education and career decisions that affect their lives. This course will assist students in planning for the future as well as preparing for employment.

Business Law**1/2 Credit****Grade 10-12****Prerequisites: Successful completion of 9th grade.**

This course examines the American legal system and basic legal concepts. The purpose of the course is to understand the extent to which law relates to what one does. Emphasis is placed upon the application of law to the problems of the individual, business, and society. Students learn personal and practical applications of rules of law. This course is recommended to anyone considering a career in business, law, or political science.

General Business**1/2 Credit****Grade 9-12****Prerequisites: Successful completion of 8th grade.**

Introduction to Business will introduce students to the world of business and help prepare them for the economic roles of consumer, worker, and citizen. This course will assist students with the banking industry, consumer credit, prepare students for future employment, and help effectively perform their responsibilities as a citizen.

Introduction to Computers**1/2 Credit****Prerequisites: Successful completion of 8th grade.**

Basic keyboarding skills using the home-row method will be developed and used throughout the course. Word Processing is introduced in this course. Students will learn how to build and maintain an electronic folder system. An online system will be used for students to upload course work and retrieve electronic materials as needed. Students will develop skills in preparing letters, tables, graphics, reports and multi-column newsletters. Spreadsheet is introduced in this course. Students will develop skills in creating a workbook, using editing and formatting tools, working with cells, columns, rows and sheets and basic formulas. Power Point is introduced in this course. Students will develop skills in navigating in Power Point, keying text on a slide, using view buttons and basic Power Point skills. Students will be introduced to Photostory.

Advanced Word Processing**1/2 Credit****Grade 9-12****Prerequisites: Successful completion of Intro to Computers.**

This course will further the study of word processing to emphasize formatting and production skills. Upon completion of the course, the student will have developed skills in preparing outlines, tables, graphics, merges, and text enhancement techniques such as borders, shading, and 3-D text. (Word 2007 & Publisher)

Spreadsheets**1/2 Credit****Grade 9-12****Prerequisites: Successful completion of Intro to Computers.**

This course will introduce students to spreadsheet applications such as financial statements and payroll calculations as well as various charts and graphs. Students will be introduced to Personal Finance.

Multimedia I/Web Page Design**1/2 Credit****Grade 9-12****Prerequisites: Successful completion of Intro to Computers.**

This course will provide the student with an overview of multimedia. The students will learn to create multimedia presentations with PowerPoint and MovieMaker. The students will be required to use digital video camera and input audio to create these demonstrations. (Power Point 2007 and Moviemaker) The students will learn the fundamentals of designing web pages using Dream Weaver MX. Students will create web sites that include all aspects such as sound, video, graphics, and animation.

Multimedia I/Business Partnership course below is this same course as this but will also include a student project. Students can take this course or the course below.

Multimedia I/Business Partnership**1/2 Credit****Grade 9-12****Prerequisites: Successful completion of Intro to Computers.**

This course is the same as Multimedia/Web Page Design list above, but will also include a student-business project called Student Powered Solution (SPS). Students can take this course or the one above.

The Consortium for Public Education works with the SPS students and local businesses. SPS creates partnerships between schools and businesses to bring authentic assignments into the classroom. Students take on the role of business consultants, doing research, gathering data, engineering solutions and even designing, building and testing prototypes. In the classroom, students lead the learning. The teacher serves as a facilitator. At the conclusion, the students make formal presentations to their corporate client, just like a real consulting team would. These project-based learning experiences not only give kids a chance to apply their learning in subjects like science and math, even art, they also simulate the workplace environment and provide opportunities to practice the "soft skills" needed to be successful as part of a team. Participating companies benefit also. They get the fresh perspectives students can bring as well as a chance to help develop the region's workforce of tomorrow.

World Language



Spanish I
Grade 9-12

1 Credit

Prerequisites: Successful completion of English 8 and Reading 8.

In Spanish I, students are introduced to one of the most widely spoken languages in the world. Students learn basic conversational phrases as well as vocabulary that allows them to communicate on a variety of topics, such as: weather, school subjects, family relationships, and more! They also discover the fascinating culture of the Spanish-speaking countries. This course begins the development of the four basic skills of listening, speaking, reading, and writing.

Spanish II
Grade 10-12

1 Credit

Prerequisites: Successful completion of Spanish I.

In Spanish II, students build upon the linguistic base of vocabulary and grammar that they learned in Spanish I. New vocabulary topics are also presented, such as: animals, clothing, and food. Grammar lessons focus on the conjugation of regular and irregular Spanish verbs in the present tense. Students study culture through the use of authentic media, such as film and music. This course continues the development of the four basic skills, with emphasis on listening and speaking. The majority of this class is taught in Spanish.

Spanish III
Grade 11, 12

1 Credit

Prerequisites: Successful completion of Spanish II.

In Spanish III, all vocabulary and grammar from previous classes are reviewed. New vocabulary topics are presented through varied thematic units. Grammar lessons focus on the conjugation of regular and irregular Spanish verbs in the preterite and imperfect tenses. Culture is presented through film, literature, and music, with a special focus on Mexico. Students work in groups to present on various cultural topics. They also continue to strengthen the four basic skills of language learning. The majority of this class is taught in Spanish.

Honors Spanish IV
Grade 12

1 Credit

Recommendation: A 70% average in Spanish III.

In Honors Spanish IV, all vocabulary and grammar from previous classes are reviewed. New vocabulary topics are presented through varied thematic units. Grammar lessons focus on the conjugation of regular and irregular Spanish verbs in the future, conditional, and subjunctive tenses. Culture is presented through film, literature, and music, with a special focus on Spain. Students work in groups to present on various cultural topics. This course continues the development of the four basic skills, with emphasis on reading and writing. The majority of this class is taught in Spanish.

French I
Grade 9-12

1 Credit

Prerequisites: Successful completion of English 8 and Reading 8.

It's fun to learn about France and the lives of French teenagers. In French I you will learn basic French vocabulary, a fundamental knowledge of the grammar structure and an opportunity to learn the cultural background of French speaking countries. Using the four basic skills of listening, speaking, reading, and writing students will develop these competencies.

French II
Grade 10-12

1 Credit

Prerequisite: Successful completion of French I.

French II is a continuation of basic skills already learned in French I. You will increase your vocabulary and knowledge of French structure. You will also learn some geography of France and its culture through the use of maps, videos, and posters. Emphasis will be placed on conversation through further development of the audio-lingual skills.

French III
Grade 11, 12

1 Credit

Prerequisite: Successful completion of French II.

In French III it is the goal for each student to attain an acceptable degree of proficiency by employing the four basic skills of language study. Students will also have the opportunity to gain knowledge about the history of France and of the French people and their customs.

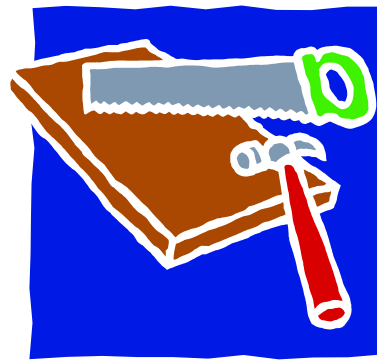
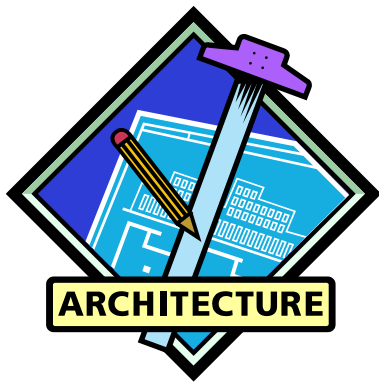
Honors French IV
Grade 12

1 Credit

Recommendation: A 70% average in French III.

French IV is a continuation of French III with a deeper exploration of French culture and history. There will be a continuation of the grammar and vocabulary with an emphasis on reading and appreciating French literature.

Technology Education



Intro to Engineering Drawing**1 Credit****Grade 9-12****Prerequisite: Successful completion of 8th grade.**

This is an introductory course to drafting skills and practices. The students will be exposed to multi-views, obloquies, isometrics, and sections. Dimensioning will be part of the drawing. At the completion of the course the student will be able to read and draw most types of mechanical drawings. He or she will also be introduced to Computer Aided Drafting (CAD). With the explosion of technology, computers are the main tools for draftsmen & engineers. The student actually designs and constructs drawings on the machine. This class is a foundation for Advanced Engineering Drawing, Architecture Design and Architecture Design and Modeling. This course is an excellent learning opportunity for students planning a career in architecture or any engineering technical field. Math is an integral component of this course. Students should be able to work with fractions, measuring, and decimals.

Advanced Engineering Drawing**1 Credit****Grade 10-12****Prerequisite: Successful completion of Introduction to Engineering Drawing.**

This is a detailed in depth course in machine drawings. The student will draw detailed machine parts and understand the process and theory behind the industry and its function. He or she will design working drawings such as exploded views, orthographic assemblies, and isometric assemblies. Computer aided drafting (CAD) will also be a part of this course. The student will do the designing and drawing on the computer itself. This class is built on the processes and theories of Intro to Engineering Drawing. This advanced course is an excellent learning opportunity for students planning a career in the engineering or technical fields.

Architecture Design**1 Credit****Grade 11, 12****Prerequisite: Successful completion of Advanced Engineering Drawing.**

This is an introductory course to the field of Architectural design. The student will design and draw 2 different types of houses. At the completion of this course the student will be able to draw all 4 types of houses and draw all types of architectural drawings. He will also be able to read professional architecture prints. The student will be able to read and/or draw: elevations, floor plans, wall sections, stair sections, electrical plans & plumbing plans. Computer aided drafting will also be used in this course. The student will be instructed in designing their plans on the computer. This advanced course is an excellent learning opportunity for students planning a career in an architecture or engineering field.

*** This course can be used to fulfill the second computer requirement.*

Architecture Design and Modeling**1 Credit****Grade 12****Prerequisite: Successful completion of Architecture Design.**

This is an advanced course in architecture. The student will design his or her own house and complete all the detailed drawings of it. After the drawings are completed the student will build to scale a framed model of the structure. We also try to put the students into a life-like situation with real clients. People who are wishing to build a house are brought in and we have the students design the house that their clients wish. This is an ideal learning situation. As in Intro to Engineering Drawing, Advanced Engineering Drawing and Architecture Design, the computer (CAD) will be used in designing the drawing. This course is an excellent learning opportunity for students planning a career in architecture or engineering.

Technology Education I**1 Credit****Grade 9-12****Prerequisite: Successful completion of 8th grade.**

Students enrolled in Technology Education will have the opportunity to study materials and processes used in manufacturing, cabinetmaking, and metal technologies. Students will produce useable products, one wood and one metal, as a vehicle to develop skills in areas which include band tools, power equipment, machining, welding/burning and finishing technology, designing, product planning, cost estimating, numerical control and tool maintenance are all concepts that will be introduced to the students through an activity based curriculum. This course will provide the student with the basic technological knowledge they will need to continue in technology. Material Process Technology is a pre-requisite for other Technology Education classes. Recommended for students pursuing a technical field.

Technology Education II**1 Credit****Grade 10-12****Prerequisite: Successful completion of Technology Education I.**

Technology Education II is an in-depth study of technologies used in manufacturing, cabinetmaking and metal technologies. Students will design and develop individual products utilizing the basic skills gained in Tech Ed I along with the advanced skills they will develop in Tech Ed III. Students will have an opportunity to advance their knowledge and skills of the woodworking and metal work through an individual product. This hands-on class will expose them to the different types of manufacturing. Recommended for students pursuing a technical field.

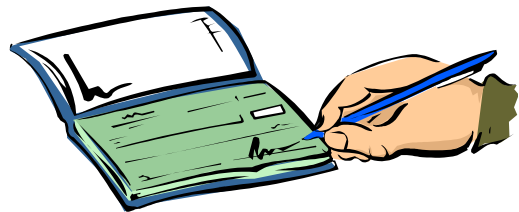
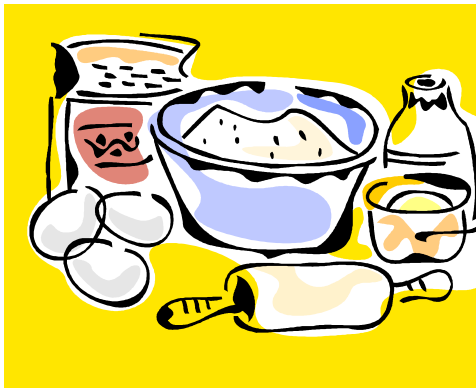
Technology Education III**1 Credit****Grade 11****Prerequisite: Successful completion of Technology Education II.**

This course is designed around a student organized enterprise activity. These students have an opportunity to develop a manufacturing company that will be set up to produce a product. Designing and engineering, developing production systems, manufacturing products, marketing products, and performing financial activities are some of the concepts that will be explored during this activity. Industrial tours are a possibility.

Technology Education IV**1 Credit****Grade 12****Prerequisite: Successful completion of Technology Education III.**

This course is designed around a student organized enterprise activity. These students have an opportunity to develop a manufacturing company that will be set up to produce a product. Designing and engineering, developing production systems, manufacturing products, marketing products, and performing financial activities are some of the concepts that will be explored during this activity. Industrial tours are a possibility.

Family Consumer Sciences



Nutritional Awareness I Grade 9-12	1/2 Credit
---	-------------------

Most of us take eating for granted. Rarely do we consider the overall effect food and nutrition have on our daily performance. From planning after school snacks to a complete family dinner, students will practice basic food preparation, sanitation, and kitchen safety skills, while analyzing the nutritional value of foods they prepare. Grades will be given on lab performance, notebooks, and paper and pencil tests. Group work required.

Nutritional Awareness II Grade 9-12	1/2 Credit
--	-------------------

Prerequisite: Successful completion of Nutrition I.

Nutrition II picks up where Nutrition I leaves off. Yeast breads and baking take up the first nine weeks of the semester. Family meal prep and everyday meals will conclude the semester.

Art



Digital Art
Grade 9-12**1/2 Credit****Prerequisite: Successful completion of 8th grade.**

In Digital Art students will learn the fundamentals of the computer software Adobe Photoshop. Using Photoshop students will create their own original 2D art using the art elements and principles of design. Students will have hands on experience with the screen-printing process and know how to print on paper, fabric and explore other mediums. A basic introduction of the graphic design industry, digital contemporary art and how they have evolved since the introduction of the computer will also be included.

Art I
Grade 9-12**1 Credit****Prerequisite: Successful completion of 8th grade.**

Art I is a basic introduction to the art elements, perspective, color theory and the principles of design using a variety of art mediums that make up the foundations of the fine arts. Students will be introduced to the two-dimensional mediums of drawing, painting, printmaking and digital art. Introductory experiences with 3-dimensional media will be sculpture and ceramics. Development of artistic and perceptual awareness in art, the critical and appreciative study of art history and its analysis, and the development of basic art skills in selective art media are the primary goals.

Art II
Grade 10-12**1 Credit****Prerequisite: Successful completion of Art I.**

Art II continues to build on the art skills and concepts introduced in Art I along with a refinement of drawing, painting, printmaking, digital art, sculpture and ceramics. The course, however, involves a more intuitive approach as opposed to a strictly analytical approach to art elements and design. The recognition of multiple intelligences in perception is used to further the development of one's ability to see and therefore to create. An understanding of the relationships among art forms of different times, places and cultures, between the student's own work and that of others, and of personal interests and possible art careers will also be undertaken.

Art III**1 Credit****Grade 11, 12****Prerequisite: Successful completion of Art II.**

The Art III course offers further explorations into two-dimensional media with increased opportunities to draw and paint from observation including figure study, still life and portraiture. Printmaking will be used to master the concepts of the principles of design found in both fine art and commercial settings. An increasing concentration on three-dimensional media and techniques will also be emphasized using STEAM curriculum concepts. Advanced ceramic techniques will be used in the creation functional objects with sculptural elements and design. Studies in perceptual awareness, art history and art cultures play a major role in the three-dimensional aspects of art form as they continue to do so in the two-dimensional.

AP Art Drawing**1 Credit****Grade 11, 12****Prerequisite: Successful completion of Art 1, 2, and 3**

Interested in things like figure drawing, or still life drawing? Do you want to focus on developing your abilities to draw world around you? In AP Art Drawing students explore drawing issues including line quality, light and shade, rendering of form, composition, surface manipulation, the illusion of depth and mark-making through a variety of means, such as painting, printmaking or mixed media. The final goal for students is to develop technical skills and familiarize themselves with the functions of visual elements as they create an individual portfolio of work for evaluation at the end of the course.

AP Art 2-D Design**1 Credit****Grade 11, 12****Prerequisite: Successful completion of Art 1, 2, and 3**

Interested in things like graphic design or photography? Do you have an eye for fashion and design? In AP Art 2-D Design, students will demonstrate mastery through any two-dimensional medium or process, such as graphic design, digital imaging, photography, collage, fabric design, weaving, fashion design, fashion illustration, painting and printmaking. Each student will develop technical skills and familiarize himself with the functions of visual elements as he creates an individual portfolio of work for evaluation at the end of the course.

AP Art 3-D Design**1 Credit****Grade 11, 12****Prerequisite: Successful completion of Art 1, 2, and 3**

Are you a hands-on artist? Are you not bothered by clay under your fingers or love to watch a project develop into "real-life" model? In AP Art 3-D Design students will demonstrate mastery through any three-dimensional approach, such as figurative or non-figurative sculpture, architectural models, metal work, ceramics, glass work, installation, assemblage and 3-D fabric/fiber arts. Each student will develop technical skills and familiarize himself with the functions of visual elements as he creates an individual portfolio of work for evaluation at the end of the course.

Music



Symphonic Band**1 Credit****Grade 9-12****Recommendation: Previous school band experience preferred.**

Students will explore a wide variety of musical styles and cultures. Music theory and music history will also be discussed. The elements of style, rhythm, harmony, balance, blend. Intonation, and phrasing are among those studied in this class. This class provides the student with the opportunity to develop solo and small group performance skills. This group will perform at least two concerts and a PMEA adjudication. Extra practices and performances are required.

Piano**1/2 Credit****Grade 9-12****Prerequisites: Successful completion of 8th grade.**

This course is for the high school student who loves music and has an interest in learning to play the piano. Students will learn basic music theory in addition to learning basic piano skills. This class is useful for the music beginner as well as for a band/choir student who is interested in enhancing his/her skills by learning how to play the piano.

Concert Choir**1 Credit****Grade 9-12****Recommendation: Previous choir experience preferred.**

This course is open to all students in grades 9-12 who are interested in being a part of a choral group. In this ensemble, students will learn and perform a variety of repertoire in differing styles and musical genres. Throughout the course, students will expand their knowledge of music vocabulary relating to terms, signs, and symbols of music literacy. A focus will be placed on learning proper singing techniques and healthy vocal habits. Students will perform at least two concerts outside of the school day in which participation is required.

Show Choir**1 Credit****Grade 9-12****Prerequisites: A student will be placed in this ensemble based on the student's musical ability. Acceptance is based on an audition. Previous choir experience is preferred.**

This auditioned group is open to all students in grades 9-12. Students will audition in the spring of each year for membership the following year. This ensemble will be comprised of 16-24 students who will perform a variety of challenging pieces within the vocal jazz, pop, and musical theater genres. These students will also perform with concert choir, though they need not be registered for both groups. Throughout the course, students will expand their knowledge of music vocabulary relating to terms, signs, and symbols of music literacy. A focus will be placed on learning proper singing techniques and healthy vocal habits. The show choir will perform in a variety of settings throughout the year in which participation is required.

Health and Physical Education



**Health
Grade 9****1/2 Credit****Prerequisite: Successful completion of 8th grade.**

This course is designed to teach students to understand their bodies, both mentally and physically. The curriculum includes strong emphasis on drug, alcohol, tobacco, and sex education as a means of providing information and enabling students to make the correct choices as they go through life. Components of wellness, nutrition and fitness also are stressed empowering students to develop strategies for incorporating healthy habits into their lives and reducing the risk factors for common diseases.

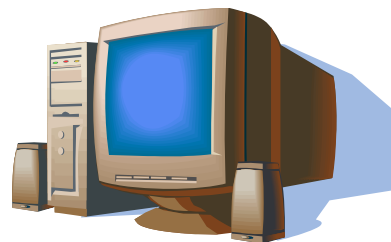
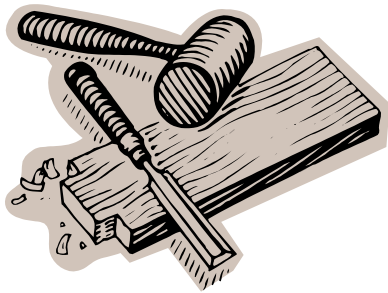
**Physical Education
Grade 9-12****1/2 Credit**

This course builds upon the skills and strategies for team sports, dual sports, lifetime sports, fitness and health that students learned in previous grades. Skill refinement, offensive and defensive strategies, coordination, technique, flexibility and fitness are some of the concepts that will be taught. Organized games are played with an emphasis on rules and the improvement of skills.

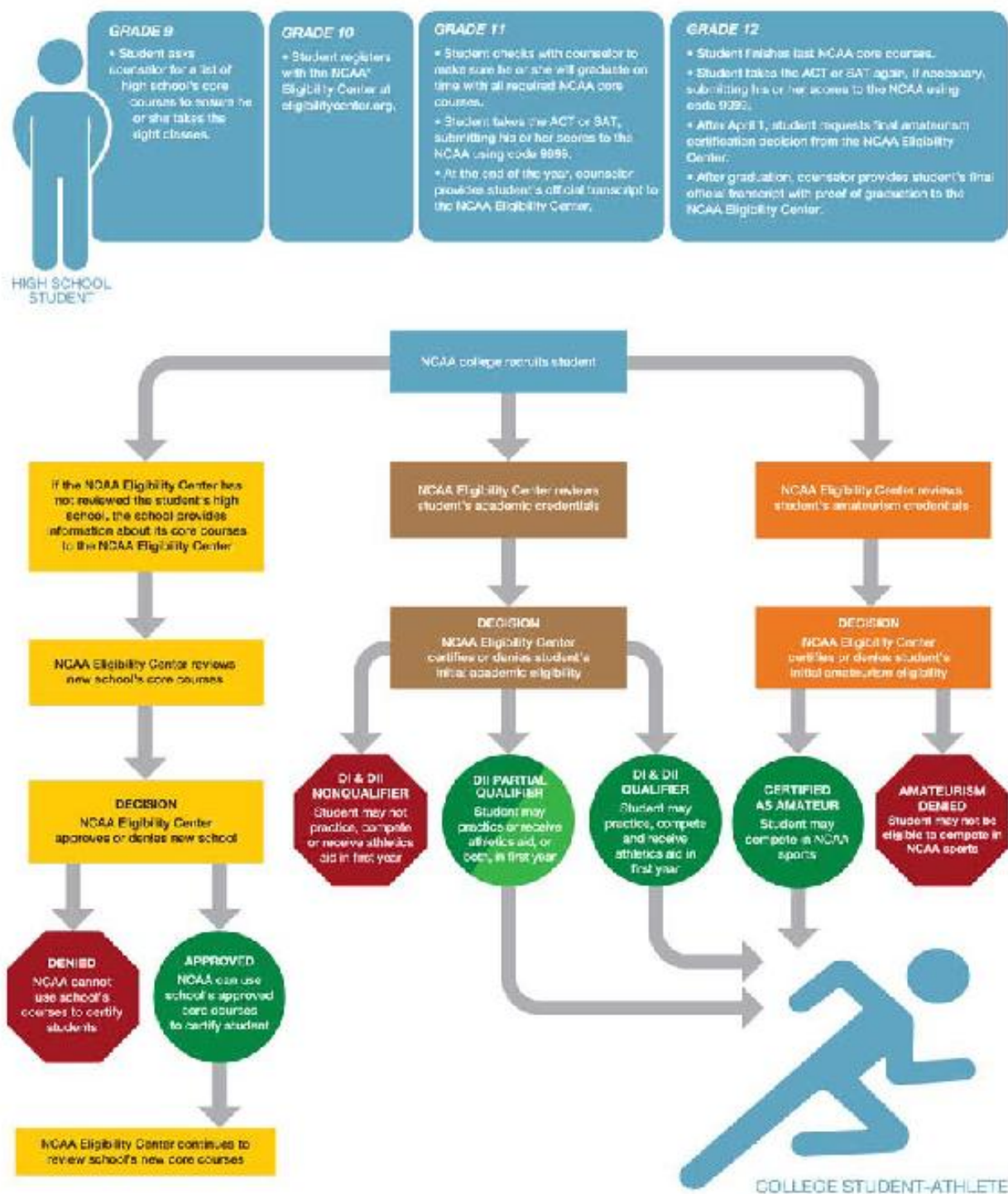
Mon Valley Career & Technology Center

MON VALLEY CAREER & TECHNOLOGY CENTER
Career and Technical Education
Program of Studies

1. Students may elect for one, two, or three years of Career and Technical Studies.
2. Career or program specific mathematics is offered to interested students or students with a schedule conflict. Credits apply toward graduation requirements.
3. A student doing satisfactory work at the CTC and home school may be eligible for a paid work experience during school time in their field of study.
4. First year students will attend in the AM session. Second and third year students in a program attend in the PM session.



NCAA INITIAL-ELIGIBILITY PROCESS



NCAA is a trademark of the National Collegiate Athletic Association.

Division I Worksheet

This worksheet is provided to assist you in monitoring your progress in meeting NCAA initial-eligibility standards. The NCAA Eligibility Center will determine your academic status after you graduate. Remember to check your high school's list of NCAA-approved courses for the classes you have taken.

Use the following scale: A = 4 quality points; B = 3 quality points; C = 2 quality points; D = 1 quality point.

English (4 years required)

10/7	Course Title	Credit	X	Grade	=	Quality Points (multiply credit by grade)
✓	Example: English 9	.5		A		(.5 x 4) = 2
	Total English Units					Total Quality Points

Mathematics (3 years required)

10/7	Course Title	Credit	X	Grade	=	Quality Points (multiply credit by grade)
	Example: Algebra 1	1.0		B		(1.0 x 3) = 3
	Total Mathematics Units					Total Quality Points

Natural/physical science (2 years required)

10/7	Course Title	Credit	X	Grade	=	Quality Points (multiply credit by grade)
	Total Natural/Physical Science Units					Total Quality Points

Additional year in English, mathematics or natural/physical science (1 year required)

10/7	Course Title	Credit	X	Grade	=	Quality Points (multiply credit by grade)
	Total Additional Units					Total Quality Points

Social science (2 years required)

10/7	Course Title	Credit	X	Grade	=	Quality Points (multiply credit by grade)
	Total Social Science Units					Total Quality Points

Additional academic courses (4 years required)

10/7	Course Title	Credit	X	Grade	=	Quality Points (multiply credit by grade)
Total	Total Additional Academic Units					Total Quality Points
	Total Quality Points from each subject area / Total Credits = Core-Course GPA		/		=	
		Quality Points	/	Credits	=	Core-Course GPA

Core-Course GPA (16 required) Beginning August 1, 2016, 10 core courses must be completed before the seventh semester and seven of the 10 must be a combination of English, math or natural or physical science for competition purposes. Grades and credits may be earned at any time for academic redshirt purposes.

Division II Worksheet

This worksheet is provided to assist you in monitoring your progress in meeting NCAA initial-eligibility standards. The NCAA Eligibility Center will determine your academic status after you graduate. Remember to check your high school's list of NCAA-approved courses for the classes you have taken.

Use the following scale: A = 4 quality points; B = 3 quality points; C = 2 quality points; D = 1 quality point.

English (3 years required)

Course Title	Credit	X	Grade	=	Quality Points (multiply credit by grade)
Example: English 9	.5		A		$(.5 \times 4) = 2$
Total English Units					Total Quality Points

Mathematics (2 years required)

Course Title	Credit	X	Grade	=	Quality Points (multiply credit by grade)
Example: Algebra 1	1.0		B		$(1.0 \times 3) = 3$
Total Mathematics Units					Total Quality Points

Natural/physical science (2 years required)

Course Title	Credit	X	Grade	=	Quality Points (multiply credit by grade)
Total Natural/Physical Science Units					Total Quality Points

Additional years in English, math or natural/physical science (3 years required)

Course Title	Credit	X	Grade	=	Quality Points (multiply credit by grade)
Total Additional Units					Total Quality Points

Social science (2 years required)

Course Title	Credit	X	Grade	=	Quality Points (multiply credit by grade)
Total Social Science Units					Total Quality Points

Additional academic courses (4 years required)

Course Title	Credit	X	Grade	=	Quality Points (multiply credit by grade)
Total Additional Academic Units					Total Quality Points
Total Quality Points from each subject area / Total Credits = Core-Course GPA		/		=	
	Quality Points	/	Credits	=	Core-Course GPA