

The background features a large, faint, grey watermark logo. It depicts a stylized figure, possibly a knight or a scholar, holding a large red rose in its right hand. The figure is wearing a helmet or a similar headpiece. The text is overlaid on this logo.

**WILLIAMSPORT  
AREA HIGH  
SCHOOL**

**2023-2024  
COURSE CATALOG**

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*WASD – Developing responsible citizens through excellence in education.*

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## Program of Studies

### Graduation Requirements

A student must accumulate twenty-three credits in grades 9 through 12 in order to qualify for a Williamsport Area High School diploma. Among these are required credits in the areas of English, Social Studies, Mathematics, Science, Health & Physical Education, and the Arts and Humanities. Graduation requirements apply to all students unless determined otherwise by an IEP team in compliance with the Individuals with Disabilities Education Act (IDEA).

### KEYSTONE EXAM Graduation Requirements:

Starting with the 2023 graduating Seniors, the Commonwealth of Pennsylvania has mandated graduation requirements as part of Act 158 of 2018, which are above and beyond the district's prescribed 23 credits for graduation from the high school. Students are required to take the Keystone Exams in the areas of Algebra, Biology and Literature for purposes of federal accountability. Completing the required Keystone Exams and fulfilling each additional condition that results from the student's performance rating on the Keystone Exams are detailed below.

Each student must participate in all components of the state assessment. Individual scores for these assessments are returned shortly after exam is completed. For each of these assessments, there are four possible performance ratings: Advanced, Proficient, Basic, and Below Basic. Each performance rating and level of achievement has an impact on the student and their pathway to meet graduation requirements. Students may meet the *Keystone Exam* Graduation Requirements by meeting either one of the two exam pathways:

1. **Keystone Exam Pathway:** A student who achieves an Advanced or Proficient rating on the required elements of the Keystone Exams shall be eligible to graduate with no additional conditions, provided the 23-credit requirement has also been met.
2. **Keystone Exam Composite Pathway:** A student who achieves a minimum composite score (4452) across the three Keystone Exams, which is a proficient score on a least one exam and no less than a basic score on the remaining two exams shall be eligible to graduate with no additional conditions, provided the 23-credit requirement has also been met.

***A student not meeting the Keystone Exam Composite Pathway will have to complete the Keystone retest in the content areas where scores of Basic or Below Basic were earned.***

- If a student does not achieve proficiency on all three Keystone Exams or meet the Keystone Composite Pathway and retest, then an alternative pathway may need to be applied such as: Alternate Assessment Pathway, Evidence Based Pathway, or CTE Pathway.

STANDARD GRADUATION REQUIREMENTS	
Subject Area	Required # of Courses
English	4.0 (1 course per year)
Mathematics	4.0* (1 course per year)
Science	3.0/4.0** (1 course per year)
Social Studies	3.0/4.0** (1 course per year)
Physical Education/Health	1.5
Arts and Humanities	2.0
Electives	4.5

\*Any student that completes Calculus I by their Junior year has officially completed their high school math requirements.

\*\*Students have a choice of a swing credit. They have the ability to choose a 4<sup>th</sup> course of science or social studies, their senior year, to fulfill graduation requirements.

CAREER & TECHNICAL EDUCATION PROGRAM COMPLETER GRADUATION REQUIREMENTS	
Subject Area	Required # of Courses
English	4.0 (1 course per year)
Mathematics	4.0* (1 course per year)
Science	3.0 (1 course per year)
Social Studies	3.0 (1 course per year)
Physical Education/Health	1.5
Arts and Humanities	2.0
Electives	4.5

\*Any student that completes Calculus I by their Junior year has officially completed their high school math requirements.

## Approved WASD Grade Scale (Grades 7-12)

(Effective 2018-19)

<b>A</b>	<b>90-100</b>
<b>B</b>	<b>80-89</b>
<b>C</b>	<b>70-79</b>
<b>D</b>	<b>65-69</b>
<b>E</b>	<b>&lt;64.99</b>

### 4.0 Scale Conversion

Colleges report GPA (grade point average) on a 4.0 scale. The top grade is an A, which equals 4.0. This is the standard scale at most colleges, and many high schools use it. To convert your GPA to a 4.0 scale:

Letter Grade	Percent Grade	4.0 Scale
A+	97-100	4.0
A	93-96	4.0
A-	90-92	3.7
B+	87-89	3.3

Letter Grade	Percent Grade	4.0 Scale
B	83-86	3.0
B-	80-82	2.7
C+	77-79	2.3
C	73-76	2.0
C-	70-72	1.7
D+	67-69	1.3
D	65-66	1.0
E/F	Below 65	0.0

**Honor Roll** - In order to recognize superior academic achievement – Grades of 95% in all subject areas will be Distinguished Honor Roll, grades of 90% in all subject areas will be High Honor Roll, and grades of 85% in all subject areas will be Honor Roll.

**Students at –risk of failure:** Presently, students failing a course within a marking period are assigned a “55” to allow them to recover the failing grade in subsequent marking periods.

# **STUDENTS OCCUPATIONALLY AND ACADEMICALLY READY (SOAR) – PATHWAY**

A SOAR program of study is a Pennsylvania Department of Education (PDE)-approved, Career and Technical Education (CTE) program. It provides credits for skills and tasks learned at the secondary school (high school) level. You can apply these credits to a post-secondary (college) degree, diploma or certificate program.

SOAR programs prepare today's student for High Priority Occupations which include career categories that are in high demand by employers, have higher skills needs, and are most likely to provide family sustaining wages.

## **Why should I enroll in a SOAR program?**

A SOAR program offers many benefits. You will:

- Get a head start and complete your college requirements sooner.
- Earn an industry-recognized certification.
- Be better prepared to start your career or post-secondary education.
- Save money on future tuition costs —you will be earning credits while in high school or CTC.
- Earn credits that can transfer statewide. There are 34 post-secondary institutions accepting SOAR program credits.

## **How can I earn free SOAR credits?**

- Earn a high school diploma.
- Maintain a 2.75 GPA in your Career and Technical Education program.
- Achieve competent or advanced on the End of Program Assessment (NOCTI, etc.)
- Complete a competency task list at the proficient level or above.
- Submit proof that you have met the requirements for the SOAR credit.

## **What documentation is required for college credits?**

You must provide the following documentation, if applicable:

- High school diploma
- Official student transcript
- Secondary competency task list. Make sure your secondary-school technical instructor signs it.
- PA Certificate of Competency or PA Skills Certificate from technical program area
- Earned industry certifications

## **For more information:**

Visit the Career and Technology Education page at [www.wasd.org](http://www.wasd.org).

# GENERAL EDUCATION REQUIREMENTS

## GENERAL EDUCATION REQUIREMENTS

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
<b>English (1 Credit)</b>	<b>English (1 Credit)</b>	<b>English (1 Credit)</b>	<b>English (1 Credit)</b>
English Requirement is 1 course each year of High School from options below. See recommended courses in your program of study			
Intro to Lit Comp I English 9H	Intro to Lit Comp II English 10H	American Lit/Comp I AP English 11 (Language)	British Lit/Comp I English 12 AP English 12 (Literature) PCT English H
<b>Mathematics (1 Credit)</b>	<b>Mathematics (1 Credit)</b>	<b>Mathematics (1 Credit*)</b>	<b>Mathematics (1 Credit)</b>
Math Requirement is 1 course each year of High School from options below. See recommended courses in your program of study			
Algebra I A Algebra I B Algebra I Algebra II H Geometry H	Algebra II Geometry H Pre-Calc Trig H	Geometry Trigonometry Geometry H PCT 124 (.5)/125 (.5) Pre-Calc Trig H Calc I (*if completed no more math required)	Career Mathematics Trigonometry Statistics PCT 124/125 Pre-Calc Trig H Calc I Calc II Alg III
<b>Social Studies (1 Credit)</b>	<b>Social Studies (1 Credit)</b>	<b>Social Studies (1 Credit)</b>	<b>Social Studies (0/1 Credit)</b>
Choose appropriate Social Studies courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
US History II US History H	Civics & Government Civics & Government H AP Government & Politics	Modern World PCT Modern World H AP European AP US History Psych/Soc	Global Studies Global Studies H PCT Psychology AP Psychology Psych/Soc
<b>Science (1 Credit)</b>	<b>Science (1 Credit)</b>	<b>Science (1 Credit)</b>	<b>Science (0/1 Credit)</b>
Choose appropriate Science courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
Biology I Biology I H	Integrated Science Chemistry I Chemistry I H	Chemistry I Physics I AP Physics I AP Environmental AP Chem (2cr) Meteorology(.5) Astronomy (.5) Geology (.5) Oceanography (.5) Anatomy/Physiology AP Biology	Genetics (.5) Meteorology(.5) Astronomy (.5) Geology (.5) Oceanography (.5) Anatomy/Physiology AP Biology Physics I AP Physics I AP Environmental Science AP Chem (2cr)
<b>Physical Education &amp; Health (1.5 Credits)</b>			
PE & Health Credits may be taken throughout your 4 years of high school.			
PE01 (.5) Health 01 (.5)	PE03 (.5) PE04 (.5) PE05 (.5) PE06 (.5) Health 01 (.5) Health 02 (.5)	PE03 (.5) PE04 (.5) PE05 (.5) PE06 (.5) Health 01 (.5) Health 02 (.5)	PE03 (.5) PE04 (.5) PE05 (.5) PE06 (.5) Health 01 (.5) Health 02 (.5)
<b>Electives (2 Credits Arts &amp; Humanities)</b>			
See electives for your program of study			
Career Pathways (.5) (9 <sup>th</sup> grade)			

**-Students in a CTE Program of study, as a completer, need only 3 social studies & 3 science credits.**

## College Entrance Requirements

Every student should be concerned not only with meeting graduation requirements, but with meeting college and other post-high school education requirements as well. There is a wide variation in the requirements for college admission. The usual college preparation course, however, will include sixteen units of subjects in the fields of English, World Languages, Social Studies, Science and Mathematics. A college preparatory program should include four college preparatory subjects each year. The highly competitive admissions offices are selecting students who elect the most challenging courses available. Students interested in the highly competitive colleges and universities are encouraged to take the Honors level courses whenever it is possible. The following distribution will satisfy even the most competitive colleges:

English	4
Mathematics (includes algebra, geometry, and trigonometry)	3 to 4
Languages	2 to 3
Science	3 to 4
Social Studies	3 to 4
Additional units in any of the fields above	2
<b>Total academic units</b>	<b>20</b>
Electives, preferably in fields other than those listed above	2
<b>Total units</b>	<b>23</b>

To be on the safe side, we strongly urge you to consult the college catalogs for admission information. Contact your counselor about course selection decisions or have some doubts about the decisions you have made. The above information reflects recommended minimum requirements for those who wish training beyond high school. This information was taken from a national publication and should not be confused with Williamsport Area High School graduation requirements. A separate WAHS publication, The College Planning Guide, is available in the counseling offices.

## PC Now Dual Enrollment Program

Pennsylvania College of Technology has provided WAHS the opportunity to be enrolled in numerous college level classes for college and high school credit. These courses are provided free of charge. Students must enroll at Penn College, and then pass the required entrance exams for the desired course. WAHS will have a process in place for enrollment and testing. These exams vary per course. Failure to pass the required exams may result in the student being placed into a non-PCT course.

## Advanced Placement Courses

Taking AP courses and exams can help students:

- **Stand out on college applications.** AP courses on a student's transcript shows that they've challenged themselves with the most rigorous courses available to them. And success on an AP Exam shows that they're ready for college-level coursework.
- **Earn college credit and/or skip introductory courses in college.** Most four-year colleges and universities in the United States—as well as many institutions in more than 100 other countries—grant students credit, placement, or both for qualifying AP Exam scores.
- Each AP course concludes with an AP Exam. These assessments are designed by the same expert committee that designed the course. **Students are expected to take the AP Exam for the course.**
- The exams are scored on a scale of 1 to 5 by college and university professors and experienced AP teachers. Many U.S. colleges offer credit for AP Exam scores of 3 or higher.
- All students who are willing and academically prepared to accept the challenge of a rigorous academic curriculum should be considered for admission to AP courses.



## Minimum Promotion Requirements

9 <sup>th</sup> to 10 <sup>th</sup> Grade	10 <sup>th</sup> to 11 <sup>th</sup> Grade	11 <sup>th</sup> to 12 <sup>th</sup> Grade	12 <sup>th</sup> to Graduate
Successfully Acquire at least 5 credits	Successfully Acquire at least 10 credits	Successfully Acquire at least 15 credits	Acquire at least 23 credits as outlined by WAHS graduation requirements

\* Please realize these are only minimum needed credits to move on to the next grade level. **This is not recommended.** Students should work to attain all credits each year.

## Commencement Participation

Each member of the senior class is eligible to process on the evening of Commencement only if the student has sufficient credits to qualify for a diploma by the end of the summer session immediately following the senior year. This means that students lacking more than one (1) credit will not be permitted to process on the evening of Commencement. Remember, twenty-three (23) credits (to include required credits in certain areas) must be accumulated in order to qualify for a Williamsport Area High School diploma. If there is any uncertainty regarding your credit status, please contact the appropriate school counselor at your earliest convenience. All students expecting a diploma must also have performed on the Keystone Exam's as described earlier in this handbook.

## Early Graduation Requirements for Graduation after the Junior Year:

1. A written request initiated by the student and signed by both student and parent must be made on or before the first day of March of the year prior to that of requested graduation (March of sophomore year).
2. The written request must be submitted to and be approved by the head principal.
3. A student must have earned a minimum of 23 credits and completed all required courses and have maintained an overall cumulative average of 85 percent or higher in the freshman, sophomore and junior years.

4. The student must show proficiency on their Keystone Exam's by the end of the junior year. Failure to do so will nullify early graduation opportunity.

## Delayed Graduation

A student who fails to meet the requirements for graduation from Williamsport Area High School when scheduled may later qualify for his/her diploma under the following conditions:

1. Complete the required make-up in summer school during the summer immediately following the senior year. A maximum of one credit may be completed in summer school.
2. Complete the required make-up in an approved credit recovery program.

## Honor Roll

The policy calls for a three-part honor roll structure, which recognizes student achievement on an equal footing at every level of course undertaken. Students would attain "Honor Roll" status during a marking period by earning grades of 85 or higher in every course undertaken; "High Honor Roll" status would come to students earning grades of 90 or better in every course undertaken; "Distinguished Honor Roll" status is earned by those students with a 95 or better in every course during the marking period. The thresholds cited here are for individual course grades each marking period and not cumulative course averages over more than one marking period. Any grade below 85 in these areas would disqualify a student from honor roll consideration, regardless of the rest of his or her grades.

## Career Pathways

In the following sections, you will see career pathway clusters. Once you identify an area of interest you should utilize the table to identify courses that will best prepare you for a job-ready or post-secondary future. Please make sure you closely look at the areas, focusing on an area of interest and concentrating on it will help to give you the best potential for future success in the field you desire.



## WAHS CAREER COURSE PLANNING GUIDES

Over the next few pages you will have the opportunity to see a number of different career pathways that are available within society for students. These pathways are in the areas of:

**Arts & Communication**

**Business & IT**

**Human Services**

**Industrial Technology**

**Science, Technology, Engineering & Math (STEM)**

Each one of these pathways has specific programs designed for students based on some of their possible career or post-secondary plans. Please make sure you look at these educational plans closely so you can help us to set up your child for the best chance at future success whether it be at a job or pursuing higher education.

# WAHS CAREER CLUSTERS

PATH	CLUSTER	DESCRIPTION	PATHWAYS
<b>ARTS &amp; COMMUNICATION PATHWAY</b>	<p><b>1 – Advertising and Commercial Art (CTE Program)</b></p> <p>2-Visual Arts</p> <p>3-Performing Arts/Drama</p> <p>4-Performing Arts/Music</p>	<p>Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and entertainment services.</p>	<p>Illustrator, Digital Design, Photographer, and Advertising Design</p> <p>Glass Artist, Court Artist, Art Restorer, Ceramic Artist, Art Educator, Gallery Manager, Artisan, Freelance Designer</p> <p>Video Manager, News Broadcaster, Actor/Actress</p> <p>Musician, Music Director, Sound Technician</p>
<b>BUSINESS</b>	<p><b>1-Accounting</b></p>	<p>Accounting careers encompass, planning, organizing, directing and evaluating business functions essential to efficient and productive business operations.</p>	<p>Banking, Auditor, Accountant, Financial Planning, Marketing, Management, Payroll, and Sales</p>

<b>HUMAN SERVICES PATHWAY</b>	<b>1-Culinary Arts</b>	Culinary Arts encompasses the management, marketing, and operations of restaurants and other food services	Executive Chef, Line cook, Sous Chef, Pastry Chef, and General Food Service
	<b>2- Health Professions</b>	Planning, managing, and providing therapeutic services, diagnostic services, health information and support services.	Home Care Aide, Nurse Assistant, CNA, RN, Physician Assistant, and other related careers
	<b>3-Early Childhood Education</b>	Preparing individuals for employment in career pathways that relate to families and human needs.	Day-Care Employee, Pre-School Employee, Teachers, Teacher’s Aide, School Counselor
	<b>4-Homeland Security</b>	Preparing individuals for employment in career pathways that relate to law enforcement, fire rescue, and emergency response.	Military, law enforcement, fire fighter, rescue, security, emergency response
<b>INDUSTRIAL TECHNOLOGY PATHWAY</b>	<b>1-Construction Trades</b>	Careers in designing, planning, managing, building and maintaining the built environment.	Plumber, Electrician, Carpenter, HVAC, Masonry, Construction Management, and Architecture
	<b>2-Automotive Technology</b>	Planning, management, and movement of people, materials, and goods by roads, and related professional technical support services.	Automotive and Diesel Technician. Automotive Engineer.
	<b>3-Precision Machining</b>	Planning, managing and performing the processing of materials into intermediate or final products and related technical support activities.	Machinist, Tool and Die maker, Machine Operator, Machine Mechanic, Set-up Technician, Manufacturing Engineer, CNC Machinist
	<b>4-Welding</b>	Planning, managing and performing the processing of materials into intermediate or final products and related technical support activities.	Welder, Welder Assistant, Manufacturing, Machinist, Process Engineering.

STEM	<b>1-Biotechnology</b>	Planning, management, and providing scientific research and professional and technical services (e.g. physical science, social science, and engineering) including laboratory and testing services, and research and development services	Laboratory Assistant, Radiologist, Pharmacy Technician, Pharmacist, Physician
	<b>2-Engineering/Robotics</b>		Robotics, Different Engineering Disciplines (electrical, mechanical, etc.)
	<b>3. Computer Information Technology (CIT)</b>	Building linkages in IT occupations. Framework: for entry level, technical and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.	Software/Computer Engineer, Programmer, Repair, Networking, and Systems Analyst

# Arts and Communications (AC) Pathway

This pathway is designed to cultivate students' awareness, interpretation, application and production of visual, verbal and written work.

## Pathways Focus Areas

Performing Arts (PA)	Visual Arts (VA)	Publishing Arts (PU)
<p><b>Are you interested in ...</b></p> <ul style="list-style-type: none"> <li>Making Visual Art</li> <li>News reporting and writing</li> <li>Interviewing and reviewing</li> <li>Multi-media</li> <li>Acting</li> <li>Radio, TV, Film, Video</li> <li>Performing in a band, chorus</li> <li>Attending concerts</li> <li>Fashion</li> <li>Decorating</li> <li>Photography</li> <li>Art shows</li> </ul>	<p><b>Can you...</b></p> <ul style="list-style-type: none"> <li>Sketch, Draw</li> <li>Paint, Sculpt, Print</li> <li>Sing</li> <li>Play an instrument</li> <li>Create and develop new ideas</li> <li>Express thoughts visually</li> <li>Act</li> <li>Articulate clearly</li> <li>Write and conduct interviews</li> <li>Meet deadlines</li> <li>Sell</li> <li>Write</li> </ul>	<p><b>Do you enjoy...</b></p> <ul style="list-style-type: none"> <li>Making videos</li> <li>Working with film props</li> <li>Seeking creative ideas</li> <li>Working with sound effects</li> <li>Performing in front of a live audience</li> <li>Working with computers</li> <li>Working with illustrations</li> <li>Developing creative solutions</li> </ul>

If you answered “yes” to most of these questions, you might consider a future in one of the same occupations listed below based on their level of post-secondary training.

## Sample Careers

Entry (OJT)	Technical/Skilled (1-3 yrs)	Professional (4 + yrs)
<ul style="list-style-type: none"> <li>Model (PA)</li> <li>Radio Operator (PA)</li> <li>Stage Hand (PA)</li> <li>Stunt Performer (PA)</li> <li>Floral Designer (VA)</li> <li>Florist (VA)</li> <li>Projectionist (VA)</li> <li>Sound Technician (VA)</li> <li>Desktop Publisher (PU)</li> <li>Circulation (PU)</li> <li>Copy Person (PU)</li> <li>Newsroom Worker (PU)</li> <li>Set Designer (PA)</li> <li>Gallery Assistant</li> <li>Studio Assistant</li> <li>Potter</li> <li>Jeweler (VA)</li> <li>Music Retail</li> </ul>	<ul style="list-style-type: none"> <li>Actor (PA)</li> <li>Book Illustrator (PA)</li> <li>Choreographer (PA)</li> <li>Dancer (PA)</li> <li>Disc jockey (PA)</li> <li>Musician (PA)</li> <li>Talent Agent (PA)</li> <li>Animator (VA)</li> <li>Artist (VA)</li> <li>Broadcast Technician (VA)</li> <li>Camera Technician (VA)</li> <li>Gallery Director</li> <li>Make-up Artist (VA)</li> <li>Photographer (VA)</li> <li>Recording Engineer (VA)</li> <li>Video Manager (VA)</li> <li>Computer Graphic Artist (VA,PA)</li> <li>Web Designer (PU)</li> <li>Textile Designer/Stylist (VA)</li> <li>Furniture Designer (VA)</li> <li>Billboard and Sign Artist (PU)</li> <li>Glass Artist</li> <li>Court Artist</li> </ul>	<ul style="list-style-type: none"> <li>Art or Music Teacher (PA VA)</li> <li>Cinematographer (PA)</li> <li>Composer (PA)</li> <li>Film Editor (PA)</li> <li>Music Critic (PA)</li> <li>Music Director (PA)</li> <li>News Broadcaster (PA)</li> <li>Curator (VA)</li> <li>Advertising Creator (VA)</li> <li>Art Director (VA)</li> <li>Industrial Designer (VA)</li> <li>Copy Writer (PU)</li> <li>Telecommunications (PU)</li> <li>Writer (PU)</li> <li>Art Historian (VA)</li> <li>Art Restorer (VA)</li> <li>Illustrator (VA)</li> <li>Fashion or Interior Designer (VA)</li> <li>College Art Professor</li> <li>Interior Designer</li> <li>Gallery Owner</li> <li>Museum Educator</li> <li>Ceramic Artist</li> </ul>

# Arts & Communication Pathway- Advertising & Commercial Art

Possible Careers: Illustrator, Digital Design, Photographer, and Advertising Design

Arts & Communication Pathway: Advertising & Commercial Art

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
<b>English (1 Credit)</b>			
Choose appropriate English courses for graduation requirement. 4 Courses needed 9-12 grade.			
Intro to Lit/Comp I English 9 H	Intro to Lit/Comp II English 10 H	American Lit/Comp I AP English 11 Journalism (elective)	Choose course based on requirement and interest.
<b>Mathematics (1 Credit)</b>			
Choose appropriate Math courses for graduation requirement. 4 Courses needed 9-12 grade.			
Algebra I A Algebra I B Algebra I Algebra II H Geometry H	Algebra I B Algebra II Geometry H Pre-Calc Trig H	Geometry Trigonometry Geometry H PCT 124 (.5)/125 (.5) Pre-Calc Trig H Calc I H(*if completed no more math required)	Choose course based on requirement and interest.
<b>Social Studies (1 Credit)</b>			
Choose appropriate Social Studies courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
US History II US History H	Civics & Government Civics & Government H AP Government	Modern World History Modern World History H (PCT) AP European History AP US History	Choose course based on requirement and interest.
<b>Science (1 Credit)</b>			
Choose appropriate Science courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
Biology I Biology I H	Integrated Science Chemistry I Chemistry I H	Chemistry I Physics I	Choose course based on requirement and interest.
<b>Physical Education &amp; Health (1.5 Credits)</b>			
Choose appropriate PE & Health courses for graduation requirement. 3 Courses needed 9-12 grade.			
<b>Visual &amp; Advertising/Commercial Art Electives</b>			
See electives for your program of study			
Career Pathways (.5) (9 <sup>th</sup> grade Only) Intro to Vis Arts (.5) Painting (.5) / Drawing (.5) Intro Commercial Art (.5) Mindful Art (.5) Intro Photo Digital	L1 Commercial Art (CTE) (2cr) 2D Art Photography and Digital Media	L2 Commercial Art (CTE) (2cr) 2D Art Advanced 2D Art Intro to Industrial Design	L3 Commercial Art (CTE) (2cr) 2D Advanced 2D Art CTE Leadership Intro to Industrial Design AP 2D Studio Art
<b>World Language Electives</b>			
Choose appropriate World Language requirement for career path. Minimum 2 years for post-secondary.			
<b>Performing Arts Electives</b>			
Choose appropriate performing art requirement for career path.			

## Arts & Communication Pathway- Visual Arts

Possible Careers: Photographer, Painter, Artisan/Crafter, Ceramicist, Art Educator, Museum Curator

Arts & Communication Pathway: Visual Arts

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
<b>English (1 Credit)</b>			
Choose appropriate English courses for graduation requirement. 4 Courses needed 9-12 grade.			
Intro to Lit/Comp I English 9 H	Intro to Lit/Comp II English 10 H	American Lit/Comp I AP English 11	Choose course based on requirement and interest.
<b>Mathematics (1 Credit)</b>			
Choose appropriate Math courses for graduation requirement. 4 Courses needed 9-12 grade.			
Algebra I A Algebra I B Algebra I Algebra II H Geometry H	Algebra I B Algebra II Geometry H Pre-Calc Trig H	Geometry Trigonometry Geometry H PCT 124 (.5)/125 (.5) Pre-Calc Trig H Calc I H(*if completed no more math required)	Choose course based on requirement and interest.
<b>Social Studies (1 Credit)</b>			
Choose appropriate Social Studies courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
US History US History H	Civics & Government Civics & Government H AP Government	Modern World History Modern World History H (PCT) AP European History AP US History	Choose course based on requirement and interest.
<b>Science (1 Credit)</b>			
Choose appropriate Science courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
Biology I Biology I H	Integrated Science Chemistry I Chemistry I H	Chemistry I Physics I	Choose course based on requirement and interest.
<b>Physical Education &amp; Health (1.5 Credits)</b>			
Choose appropriate PE & Health courses for graduation requirement. 3 Courses needed 9-12 grade.			
<b>Visual &amp; Advertising/Commercial Art Electives</b>			
See electives for your program of study			
Career Pathways (.5) (9 <sup>th</sup> grade Only) .5 credit art electives Intro to Sculpture... Intro to Photo/Digital Media	2D Visual Arts II Advanced 2D Visual Art Advanced Ceramics Advanced 3D Courses Advanced Digital Media	2D Visual Arts II Advanced 2D Visual Art Advanced Ceramics Advanced 3D Courses Advanced Digital Media	AP Studio Art 2D/3D Photo Digital Media IV Intro to Industrial Design
<b>World Language Electives</b>			
Choose appropriate World Language requirement for career path. Minimum 2 years for post-secondary.			
<b>Performing Arts Electives</b>			
Choose appropriate performing art requirement for career path.			



## Arts & Communication Pathway- Performing Arts/Drama

Possible Careers: Video Manager, News Broadcaster, Actor/Actress, and Other Performance Media careers

Arts & Communication Pathway: Performing Arts/Drama

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
<b>English (1 Credit)</b>	<b>English (1 Credit)</b>	<b>English (1 Credit)</b>	<b>English (1 Credit)</b>
Choose appropriate English courses for graduation requirement. 4 Courses needed 9-12 grade.			
Intro to Lit/Comp I English 9 H	Intro to Lit/Comp II English 10 H	American Lit/Comp I AP English 11	Choose course based on requirement and interest.
<b>Mathematics (1 Credit)</b>	<b>Mathematics (1 Credit)</b>	<b>Mathematics (1 Credit*)</b>	<b>Mathematics (1 Credit)</b>
Choose appropriate Math courses for graduation requirement. 4 Courses needed 9-12 grade.			
Algebra I A Algebra I B Algebra I Algebra II H Geometry H	Algebra I B Algebra II Geometry H Pre-Calc Trig H	Geometry Trigonometry Geometry H PCT 124 (.5)/125 (.5) Pre-Calc Trig H Calc I H(*if completed no more math required)	Choose course based on requirement and interest.
<b>Social Studies (1 Credit)</b>	<b>Social Studies (1 Credit)</b>	<b>Social Studies (1 Credit)</b>	<b>Social Studies (0/1 Credit)</b>
Choose appropriate Social Studies courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
US History US History H	Civics & Government Civics & Government H AP Government	Modern World History Modern World History H (PCT) AP European History AP US History	Choose course based on requirement and interest.
<b>Science (1 Credit)</b>	<b>Science (1 Credit)</b>	<b>Science (1 Credit)</b>	<b>Science (0/1 Credit)</b>
Choose appropriate Science courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
Biology I Biology I H	Integrated Science Chemistry I Chemistry I H	Chemistry I Physics I	Choose course based on requirement and interest.
<b>Physical Education &amp; Health (1.5 Credits)</b>			
Choose appropriate PE & Health courses for graduation requirement. 3 Courses needed 9-12 grade.			
<b>Visual &amp; Advertising/Commercial Art Electives</b>			
See electives for your program of study			
Career Pathways (.5) (9 <sup>th</sup> grade Only) Drama 1 Drama 2	Drama 1 Drama 2 Drama 3 Drama 4	Drama 3 Drama 4	Drama Studio
<b>World Language Electives</b>			
Choose appropriate World Language requirement for career path. Minimum 2 years for post-secondary.			
<b>Performing Arts Electives</b>			
Choose appropriate performing art requirement for career path.			

## Arts & Communication Pathway- Performing Arts/Music

Possible Careers: Musician, Music Director, Sound Technician, and Other music related careers

Arts & Communication Pathway: Performing Arts/Music

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
<b>English (1 Credit)</b>			
Choose appropriate English courses for graduation requirement. 4 Courses needed 9-12 grade.			
Intro to Lit/Comp I English 9 H	Intro to Lit/Comp II English 10 H	American Lit/Comp I AP English 11	Choose course based on requirement and interest.
<b>Mathematics (1 Credit)</b>			
Choose appropriate Math courses for graduation requirement. 4 Courses needed 9-12 grade.			
Algebra I A Algebra I B Algebra I Algebra II H Geometry H	Algebra I B Algebra II Geometry H Pre-Calc Trig H	Geometry Trigonometry Geometry H PCT 124 (.5)/125 (.5) Pre-Calc Trig H Calc I H(*if completed no more math required)	Choose course based on requirement and interest.
<b>Social Studies (1 Credit)</b>			
Choose appropriate Social Studies courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
US History US History H	Civics & Government Civics & Government H AP Government	Modern World History Modern World History H (PCT) AP European History AP US History	Choose course based on requirement and interest.
<b>Science (1 Credit)</b>			
Choose appropriate Science courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
Biology I Biology I H	Integrated Science Chemistry I Chemistry I H	Chemistry I Physics I	Choose course based on requirement and interest.
<b>Physical Education &amp; Health (1.5 Credits)</b>			
Choose appropriate PE & Health courses for graduation requirement. 3 Courses needed 9-12 grade.			
<b>Performing Arts/Music Selections</b>			
See electives for your program of study			
Freshman Band (1cr) Freshman Chorale (1cr) Freshman Orchestra (1cr) Concert Chorale (9th) (1cr) Basic String Technique (.50cr) Wind, Brass & Percussion (.50cr) Symphonic Band (1cr) Symphony Orchestra (1cr) Wind Ensemble (1cr) PF MUS Band/Chorus (1cr) PF MUS Orchestra/Chorus (1cr) Jazz, Rock, Contemporary Music (.50cr) Guitar (.50cr) Music Mogul (.50cr) Piano (.50cr)	Concert Chorale (10th) (1cr) AP Music Theory (1cr) Symphony Orchestra (1cr) Concert Orchestra (1cr) Women's Choir (1cr) Men's Choir (1cr) Basic String Technique (.50cr) PF MUS Orchestra/Chorus (1cr) PF MUS Band/Chorus (1cr) Jazz, Rock, Contemporary Music (.50cr) Guitar (.50cr) Wind, Brass & Percussion (.50cr) Music Mogul (.50cr) Piano (.50cr)	Concert Chorale (11th) (1cr) AP Music Theory (1cr) Symphony Orchestra (1cr) Concert Orchestra (1cr) Women's Choir (1cr) Men's Choir (1cr) Basic String Technique (.50cr) PF MUS Orchestra/Chorus (1cr) PF MUS Band/Chorus (1cr) Jazz, Rock, Contemporary Music Guitar (.50cr) Wind, Brass & Percussion (.50cr) Music Mogul (.50cr) Piano (.50cr)	Concert Chorale (12th) (1cr) AP Music Theory (1cr) Symphony Orchestra (1cr) Concert Orchestra (1cr) Women's Choir (1cr) Men's Choir (1cr) Basic String Technique (.50cr) PF MUS Orchestra/Chorus (1cr) PF MUS Band/Chorus (1cr) Jazz, Rock, Contemporary Music Guitar (.50cr) Wind, Brass & Percussion (.50cr) Music Mogul (.50cr) Piano (.50cr)
<b>World Language Electives</b>			
Choose appropriate World Language requirement for career path. Minimum 2 years for post-secondary.			
<b>Career Exploration Requirement</b>			

# Business Pathway

This pathway is designed to prepare students in the world of business, finance and information services.

## Pathways Focus Areas

Marketing & Sales	Information Technology	Finance Business Management
<p><b>Are you interested in ...</b></p> <ul style="list-style-type: none"> <li>Owning your own business</li> <li>A business environment</li> <li>Office management</li> <li>Sales</li> <li>Computers and technology</li> <li>Presentations to groups</li> <li>Telecommunications</li> <li>Advertising</li> <li>Different work sites</li> <li>Insurance</li> <li>Record keeping</li> </ul>	<p><b>Can you...</b></p> <ul style="list-style-type: none"> <li>Work easily with others?</li> <li>Organize your time efficiently?</li> <li>Work with statistics?</li> <li>Use computers and other technology?</li> <li>Pay attention to details</li> <li>Solve problems?</li> <li>Work Independently?</li> <li>Show initiative?</li> <li>Work on a team?</li> </ul>	<p><b>Do you enjoy...</b></p> <ul style="list-style-type: none"> <li>Meeting with groups</li> <li>Making budgets</li> <li>Organizing a project</li> <li>Planning an event</li> <li>Working with technology</li> <li>Selling products and services</li> <li>Processing numbers and figures</li> <li>Following directions</li> <li>Learning new software programs</li> </ul>

If you answered “yes” to most of these questions, you might consider a future in one of the same occupations listed below based on their level of post-secondary training.

## Sample Careers

<p><b>Entry (OJT)</b></p> <ul style="list-style-type: none"> <li>Customer Service Representative</li> <li>Reservation/Travel Agent</li> <li>Telemarketer</li> <li>Book Keeper</li> <li>Cashier</li> <li>Payroll Clerk</li> <li>Title Searcher</li> <li>Computer Operator</li> <li>Accounts payable clerk</li> <li>Administrative Assistant</li> <li>Bank Teller</li> <li>File Clerk</li> <li>Retail Sales Clerk</li> <li>School Secretary</li> </ul>	<p><b>Technical/Skilled (1-3 yrs)</b></p> <ul style="list-style-type: none"> <li>Computer Salesperson</li> <li>Retail Buyer</li> <li>Bank Collection Officer</li> <li>Tax Preparer</li> <li>Claims Adjuster</li> <li>Software Engineer</li> <li>Computer Programmer</li> <li>Production Support Analyst</li> <li>Desktop Publisher</li> <li>Legal Secretary</li> <li>Medical Secretary</li> <li>Paralegal</li> <li>Real Estate Agent</li> <li>Restaurant Manager</li> <li>Sales Representative</li> </ul>	<p><b>Professional (4 + yrs)</b></p> <ul style="list-style-type: none"> <li>Marketing Manager</li> <li>Auditors</li> <li>Certified Public Accountant</li> <li>Economist</li> <li>Financial Planner</li> <li>Tax Examiner</li> <li>E-Commerce Analyst</li> <li>Operations Analyst</li> <li>Systems Analyst</li> <li>Hospital Administrator</li> <li>Human Resources Manager</li> <li>Chief Executive Officer</li> <li>Manufacturing Sales Representative</li> <li>Bank President</li> </ul>
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## Business Pathway- Business Administration

Possible Careers: Administrative Assistant, Banking, Marketing, Management, and Sales

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
<b>English (1 Credit)</b>	<b>English (1 Credit)</b>	<b>English (1 Credit)</b>	<b>English (1 Credit)</b>
Choose appropriate English courses for graduation requirement. 4 Courses needed 9-12 grade.			
Intro to Lit/Comp I English 9 H	Intro to Lit/Comp II English 10 H	American Lit/Comp I AP English 11	Choose course based on requirement and interest.
<b>Mathematics (1 Credit)</b>	<b>Mathematics (1 Credit)</b>	<b>Mathematics (1 Credit*)</b>	<b>Mathematics (1 Credit)</b>
Choose appropriate Math courses for graduation requirement. 4 Courses needed 9-12 grade.			
Algebra I A Algebra I B Algebra I Algebra II H Geometry H	Algebra I B Algebra II Geometry H Pre-Calc Trig H	Geometry Trigonometry Geometry H PCT 124 (.5)/125 (.5) Pre-Calc Trig H Calc I H (*if completed no more math required)	Choose course based on requirement and interest.
<b>Social Studies (1 Credit)</b>	<b>Social Studies (1 Credit)</b>	<b>Social Studies (1 Credit)</b>	<b>Social Studies (0/1 Credit)</b>
Choose appropriate Social Studies courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
US History US History H	Civics & Government Civics & Government H AP Government	Modern World History Modern World History H (PCT) AP European History AP US History	Choose course based on requirement and interest.
<b>Science (1 Credit)</b>	<b>Science (1 Credit)</b>	<b>Science (1 Credit)</b>	<b>Science (0/1 Credit)</b>
Choose appropriate Science courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
Biology I Biology I H	Integrated Science Chemistry I Chemistry I H	Chemistry I Physics I	Choose course based on requirement and interest.
<b>Physical Education &amp; Health (1.5 Credits)</b>			
Choose appropriate PE & Health courses for graduation requirement. 3 Courses needed 9-12 grade.			
<b>Business Administration Courses</b>			
See electives for your program of study			
Career Pathways (.5) (9 <sup>th</sup> grade Only)	Computer Apps I (.5) Computer Apps II (.5)	Business Management I Accounting I	Business Law (.5) Business Management II Personal Communication CTE Leadership
<b>Business Administration Electives</b>			
	Intro to Business (.5)	Personal Finance (.5)	Personal Finance (.5)
<b>World Language Electives</b>			
Choose appropriate World Language requirement for career path. Minimum 2 years for post-secondary.			
<b>Performing Arts Electives</b>			
Choose appropriate performing art requirement for career path.			

## Business Pathway- Accounting

Possible Careers: Banking, Auditor, Accountant, Financial Planning, and Payroll

Business Pathway: Accounting

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
<b>English (1 Credit)</b>			
Choose appropriate English courses for graduation requirement. 4 Courses needed 9-12 grade.			
Intro to Lit/Comp I English 9 H	Intro to Lit/Comp II English 10 H	American Lit/Comp I AP English 11	Choose course based on requirement and interest.
<b>Mathematics (1 Credit)</b>			
Choose appropriate Math courses for graduation requirement. 4 Courses needed 9-12 grade.			
Algebra I A Algebra I B Algebra I Algebra II H Geometry H	Algebra I B Algebra II Geometry H Pre-Calc Trig H	Geometry Trigonometry Geometry H PCT 124 (.5)/125 (.5) Pre-Calc Trig H Calc I H(*if completed no more math required)	Choose course based on requirement and interest.
<b>Social Studies (1 Credit)</b>			
Choose appropriate Social Studies courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
US History US History H	Civics & Government Civics & Government H AP Government	Modern World History Modern World History H (PCT) AP European History AP US History	Choose course based on requirement and interest.
<b>Science (1 Credit)</b>			
Choose appropriate Science courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
Biology I Biology I H	Integrated Science Chemistry I Chemistry I H	Chemistry I Physics I	Choose course based on requirement and interest.
<b>Physical Education &amp; Health (1.5 Credits)</b>			
Choose appropriate PE & Health courses for graduation requirement. 3 Courses needed 9-12 grade.			
<b>Business Accounting Courses</b>			
See electives for your program of study			
Career Pathways (.5) (9 <sup>th</sup> grade Only)	Accounting I	Advanced Accounting	Automated Accounting CTE Leadership
<b>Business Accounting Electives</b>			
	Intro to Business (.5) Computer Apps I (.5) Computer Apps II (.5) Accounting I	Personal Finance (.5) Advanced Accounting	Personal Finance (.5) Business Law (.5) Automated Accounting
<b>World Language Electives</b>			
Choose appropriate World Language requirement for career path. Minimum 2 years for post-secondary.			
<b>Performing Arts Electives</b>			

# Human Services (HS) Pathway

This pathway is designed to cultivate students' interests skills and experiences for employment in careers related to family and human needs.

## Pathways Focus Areas

**Counseling, Personal Care, Health**

**Education**

**Law, Public Safety and Government**

**Hospitality and Tourism**

### Are you interested in ...

Owning your own Business  
Family and social services  
Working with people  
Aging adults  
Child development  
Food preparation  
Teaching  
Counseling

### Can you...

Apply science and math to the real world  
Organize well  
Plan and direct programs  
Be creative  
Communicate well  
Assume leadership  
Work with a team  
Use interpersonal skills  
Be conscientious and dependable  
Plan budgets

### Do you enjoy...

Communicate services  
Helping and protecting others  
Working with people  
Counseling and advising people  
Serving others' needs  
Interviewing people  
Selling products or services  
Handling customer complaints  
Searching for answers to human Problems

If you answered "yes" to most of these questions, you might consider a future in one of the same occupations listed below based on their level of post-secondary training.

## Sample Careers

### Entry (OJT)

Patient Care Technician  
Dialysis Technician  
Home Health Aide  
Physical Therapy Aide  
Animal Caretaker  
Extension Services Worker  
Child Care  
Home Health Aide  
Library Assistant  
Armed Services Career  
Bailiff  
Postal Services Worker  
Security Guard  
Utility Worker  
Aerobics Instructor  
Travel Agent

### Technical/Skilled (1-3 yrs)

Certified Nursing Assistant  
Pharmacy Assistant  
Barber  
Cosmetologist  
Designer  
Manicurist  
Massage Therapist  
Mortician  
Truck Driver  
Teacher's Aid  
Armed Services Career  
Crime Laboratory Technician  
Medical Laboratory Technician  
Fire Fighter  
Flight Attendant  
Surgical Technologist  
Personal Trainer  
Licensed Practical Nurse (LPN)  
Dental Hygienist  
Occupational Therapy Assistant

### Professional (4 + yrs)

Registered Nurse  
Dietician  
Funeral Director  
Marriage and Family Therapist  
College Professor  
Teacher  
Guidance Counselor  
Medical & Public Health Social Workers  
Psychologist  
Physician Assistant  
Criminologist  
FBI Agent  
Lawyer  
Parole Officer  
Paralegal  
Park Ranger  
Workforce Director  
Physical Therapist  
Executive Chef  
Family Planner  
Food Services Manager  
Hotel/Motel Management

## Human Services Pathway- Culinary Arts

Possible Careers: Executive Chef, Line cook, Sous Chef, Pastry Chef, and General Food Service

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
<b>English (1 Credit)</b>			
Choose appropriate English courses for graduation requirement. 4 Courses needed 9-12 grade.			
Intro to Lit/Comp I English 9 H	Intro to Lit/Comp II English 10 H	American Lit/Comp I AP English 11	Choose course based on requirement and interest.
<b>Mathematics (1 Credit)</b>			
Choose appropriate Math courses for graduation requirement. 4 Courses needed 9-12 grade.			
Algebra I A Algebra I B Algebra I Algebra II H Geometry H	Algebra I B Algebra II Geometry H Pre-Calc Trig H	Geometry Trigonometry Geometry H PCT 124 (.5)/125 (.5) Pre-Calc Trig H Calc I H (*if completed no more math required)	PCT 124 (.5)/125 (.5)  Choose course based on requirement and interest.
<b>Social Studies (1 Credit)</b>			
Choose appropriate Social Studies courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
US History US History H	Civics & Government Civics & Government H AP Government	Modern World History Modern World History H (PCT) AP European History AP US History	Choose course based on requirement and interest.
<b>Science (1 Credit)</b>			
Choose appropriate Science courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
Biology I Biology I H	Integrated Science Chemistry I Chemistry I H	Chemistry I Physics I	Choose course based on requirement and interest.
<b>Physical Education &amp; Health (1.5 Credits)</b>			
Choose appropriate PE & Health courses for graduation requirement. 3 Courses needed 9-12 grade.			
<b>Culinary Arts Courses</b>			
See electives for your program of study			
Career Pathways (.5) (9 <sup>th</sup> grade Only)	L1 Culinary Arts (CTE) (2cr)	L2 Culinary Arts (CTE) (2cr) Business Management I	L3 Culinary Arts (CTE) (2cr) Business Management I CTE Leadership
<b>Culinary Arts Electives</b>			
	Intro to Business (.50) Accounting I	Personal Finance (.5) Intro to Business (.5)	Personal Finance (.5)
<b>World Language Electives</b>			
Choose appropriate World Language requirement for career path. Minimum 2 years for post-secondary.			
<b>Performing Arts Electives</b>			
Choose appropriate performing art requirement for career path.			

## Human Services Pathway- Health Professions

Possible Careers: Home Care Aide, Nurse Assistant, CNA, RN, Physician Assistant, and other related careers

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
<b>English (1 Credit)</b>			
Choose appropriate English courses for graduation requirement. 4 Courses needed 9-12 grade.			
Intro to Lit/Comp I English 9 H	Intro to Lit/Comp II English 10 H	American Lit/Comp I AP English 11	Choose course based on requirement and interest.
<b>Mathematics (1 Credit)</b>			
Choose appropriate Math courses for graduation requirement. 4 Courses needed 9-12 grade.			
Algebra I A Algebra I B Algebra I Algebra II H Geometry H	Algebra I B Algebra II Geometry H Pre-Calc Trig H	Geometry Trigonometry Geometry H PCT 124 (.5)/125 (.5) Pre-Calc Trig H Calc I H(*if completed no more math required)	PCT 124 (.5)/125 (.5)  Choose course based on requirement and interest.
<b>Social Studies (1 Credit)</b>			
Choose appropriate Social Studies courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
US History US History H	Civics & Government Civics & Government H AP Government	Modern World History Modern World History H (PCT) AP European History AP US History	Choose course based on requirement and interest.
<b>Science (1 Credit)</b>			
Choose appropriate Science courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
Biology I Biology I H	Integrated Science Chemistry I Chemistry H	Chemistry I Physics I Anatomy/Physiology Anatomy/Physiology H AP Biology AP Chemistry	AP Biology Anatomy/Physiology Anatomy & Physiology H AP Biology AP Chemistry
<b>Physical Education &amp; Health (1.5 Credits)</b>			
Choose appropriate PE & Health courses for graduation requirement. 3 Courses needed 9-12 grade.			
<b>Health Professions Courses</b>			
See electives for your program of study			
Career Pathways (.5) (9 <sup>th</sup> grade Only)	L1 Health Professions (CTE) (2cr)	L2 Health Professions (CTE) (2cr) Anatomy & Physiology	L3 Health Professions (CTE) (2cr) Anatomy & Physiology CTE Leadership
<b>Health Professions Electives</b>			
	Intro to Business (.50)	Personal Finance (.5)	Personal Finance (.5)
<b>World Language Electives</b>			
Choose appropriate World Language requirement for career path. Minimum 2 years for post-secondary.			
<b>Performing Arts Electives</b>			
Choose appropriate performing art requirement for career path.			



## Human Services Pathway- Early Childhood Education

Possible Careers: Day-Care Employee, Pre-School Employee, Teachers, Teacher’s Aide, School Counselor

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
<b>English (1 Credit)</b>			
Choose appropriate English courses for graduation requirement. 4 Courses needed 9-12 grade.			
Intro to Lit/Comp I English 9 H	Intro to Lit/Comp II English 10 H	American Lit/Comp I AP English 11	Choose course based on requirement and interest.
<b>Mathematics (1 Credit)</b>			
Choose appropriate Math courses for graduation requirement. 4 Courses needed 9-12 grade.			
Algebra I A Algebra I B Algebra I Algebra II H Geometry H	Algebra I B Algebra II Geometry H Pre-Calc Trig H	Geometry Trigonometry Geometry H PCT 124 (.5)/125 (.5) Pre-Calc Trig H Calc I H(*if completed no more math required)	PCT 124 (.5)/125 (.5)  Choose course based on requirement and interest.
<b>Social Studies (1 Credit)</b>			
Choose appropriate Social Studies courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
US History US History H	Civics & Government Civics & Government H AP Government	Modern World History Modern World History H (PCT) AP European History AP US History	Choose course based on requirement and interest.
<b>Science (1 Credit)</b>			
Choose appropriate Science courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
Biology I Biology I H	Integrated Science Chemistry I Chemistry I H	Chemistry I Physics I Anatomy/Physiology Anatomy/Physiology H AP Biology AP Chemistry	Physics I Anatomy/Physiology Anatomy/Physiology H AP Biology AP Chemistry
<b>Physical Education &amp; Health (1.5 Credits)</b>			
Choose appropriate PE & Health courses for graduation requirement. 3 Courses needed 9-12 grade.			
<b>Health Profession Courses</b>			
See electives for your program of study			
Career Pathways (.5) (9 <sup>th</sup> grade Only)	L1 ECE (CTE) (2cr)	L2 ECE (CTE) (2cr) Psychology/Sociology	L3 ECE (CTE) (2cr) Psychology/Sociology CTE Leadership
<b>Health Profession Electives</b>			
	Intro to Business (.50) Accounting I	Personal Finance (.5)	Personal Finance (.5) Business Management I
<b>World Language Electives</b>			
Choose appropriate World Language requirement for career path. Minimum 2 years for post-secondary.			
<b>Performing Arts Electives</b>			
Choose appropriate performing art requirement for career path.			

## Human Services Pathway- Homeland Security

Possible Careers: Emergency Services, Law Enforcement, Fire Fighting

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
<b>English (1 Credit)</b>			
Choose appropriate English courses for graduation requirement. 4 Courses needed 9-12 grade.			
Intro to Lit/Comp I English 9 H	Intro to Lit/Comp II English 10 H	American Lit/Comp I AP English 11	Choose course based on requirement and interest.
<b>Mathematics (1 Credit)</b>			
Choose appropriate Math courses for graduation requirement. 4 Courses needed 9-12 grade.			
Algebra I A Algebra I B Algebra I Algebra II H Geometry H	Algebra I B Algebra II Geometry H Pre-Calc Trig H	Geometry Trigonometry Geometry H PCT 124 (.5)/125 (.5) Pre-Calc Trig H Calc I H(*if completed no more math required)	PCT 124 (.5)/125 (.5)  Choose course based on requirement and interest.
<b>Social Studies (1 Credit)</b>			
Choose appropriate Social Studies courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
US History US History H	Civics & Government Civics & Government H AP Government	Modern World History Modern World History H (PCT) AP European History AP US History	Choose course based on requirement and interest.
<b>Science (1 Credit)</b>			
Choose appropriate Science courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
Biology I Biology I H	Integrated Science Chemistry I Chemistry I H	Chemistry I Physics I Anatomy/Physiology Anatomy/Physiology H	Choose course based on requirement and interest.
<b>Physical Education &amp; Health (1.5 Credits)</b>			
Choose appropriate PE & Health courses for graduation requirement. 3 Courses needed 9-12 grade.			
<b>Homeland Security Courses</b>			
See electives for your program of study			
Career Pathways (.5) (9 <sup>th</sup> grade Only)	L1 HLS (CTE) (2cr)	L2 HLS (CTE) (2cr) Psychology/Sociology	L3 HLS (CTE) (2cr) Psychology/Sociology CTE Leadership
<b>Homeland Security Electives</b>			
		Personal Finance (.5)	Personal Finance (.5)
<b>World Language Electives</b>			
Choose appropriate World Language requirement for career path. Minimum 2 years for post-secondary.			
<b>Performing Arts Electives</b>			
Choose appropriate performing art requirement for career path.			

# Industrial Technology (IT) Pathway

This pathway is designed to cultivate students' interests in the life, physical and behavioral sciences.

## Pathways Focus Areas

### Architecture & Construction

### Manufacturing & Engineering

### Transportation

#### Are you interested in ...

Tools, equipment and materials  
Buildings and construction  
Woodworking  
Nature and Plants  
Math & Science classes  
Precision work  
Design and architecture  
Engineering  
Computer technology  
Production management  
How things work

#### Can you...

Apply science and math to real world  
Read and understand directions  
Solve problems of a complex nature  
Understand directives and read maps  
Organize reports and people  
See a task through to completion  
Use a computer

#### Do you enjoy...

Travel  
Working with your hands  
Design/working with project, models, prototypes  
Working Outdoors  
Working with plants and nature  
Working in a lab setting  
Working on a team  
Building with your hands  
Operating tools and equipment  
Paying close attention to details

If you answered "yes" to most of these questions, you might consider a future in one of the same occupations listed below based on their level of post-secondary training.

## Sample Careers

#### Entry (OJT)

Drywall worker  
Roofer  
Machine Operator  
Freight Handler  
Laborer  
Warehouse Worker  
Florist  
Farming

#### Apprenticeships

Brick Mason  
Carpenter  
Welder  
Electrician  
HVAC  
Plumber  
Machinist  
Diesel Mechanic  
Surveyor  
Landscaping

#### Technical/Skilled (1-3 yrs)

Electric Technician  
Welder  
Metals Engineering Technician  
Auto Mechanic  
Carpenter  
Automation Technician  
Plant Materials Specialist  
Horticultural Therapist  
Environmental Resource Specialist  
Mason  
Diesel Mechanic  
Plumber  
Grader and Dozer Operator  
Motorcycle Mechanic  
CNC Machinist  
Draftsman  
Civil Engineering Technician  
Robotics Technician  
CAD/CAM Technician  
Electronic Technician

#### Professional (4 + yrs)

Industrial Engineer  
Mechanical Engineer  
Forestry  
Building Inspector  
Electromechanical Engineer  
Petroleum Engineer  
Navigator  
Electrical Engineer  
Aerospace Engineer  
Construction Management  
Civil Engineer  
Chemical Engineer  
Computer Network Engineer  
HVAC  
Transportation Engineer  
Landscape Architecture  
Landscape Engineering  
Urban Forestry  
Sports Grounds Specialist  
Manufacturing Engineer  
CNC Programmer

# Industrial Pathways- Construction Trades

Possible Careers: Construction Management. Electrician. Plumber. Carpenter. and HVAC

Industrial Pathways- Construction Trades

<b>FRESHMAN</b>	<b>SOPHOMORE</b>	<b>JUNIOR</b>	<b>SENIOR</b>
<b>English (1 Credit)</b>			
Choose appropriate English courses for graduation requirement. 4 Courses needed 9-12 grade.			
Intro to Lit/Comp I English 9 H	Intro to Lit/Comp II English 10 H	American Lit/Comp I AP English 11	Choose course based on requirement and interest.
<b>Mathematics (1 Credit)</b>			
Choose appropriate Math courses for graduation requirement. 4 Courses needed 9-12 grade.			
Algebra I A Algebra I B Algebra I Algebra II H Geometry H	Algebra I B Algebra II Geometry H Pre-Calc Trig H	Geometry Trigonometry Geometry H PCT 124 (.5)/125 (.5) Pre-Calc Trig H Calc I H(*if completed no more math required)	PCT 124 (.5)/125 (.5)  Choose course based on requirement and interest.
<b>Social Studies (1 Credit)</b>			
Choose appropriate Social Studies courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
US History US History H	Civics & Government Civics & Government H AP Government	Modern World History Modern World History H (PCT) AP European History AP US History	Choose course based on requirement and interest.
<b>Science (1 Credit)</b>			
Choose appropriate Science courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
Biology I Biology I H	Integrated Science Chemistry I Chemistry I H	Chemistry I Physics I	Choose course based on requirement and interest.
<b>Physical Education &amp; Health (1.5 Credits)</b>			
Choose appropriate PE & Health courses for graduation requirement. 3 Courses needed 9-12 grade.			
<b>Construction Trades Courses</b>			
See electives for your program of study			
Career Pathways (.5) (9 <sup>th</sup> grade Only)	PCT L1 Construction Trades (CTE) (2cr)	L2 Construction Trades (CTE) (2cr) PCT AutoCad	L3 Construction Trades (CTE) (2cr) PCT AutoCad CTE Leadership
<b>Construction Trades Electives</b>			
	Intro to Business (.50) Accounting I	Personal Finance (.5)	Personal Finance (.5)
<b>World Language Electives</b>			
Choose appropriate World Language requirement for career path. Minimum 2 years for post-secondary.			
<b>Performing Arts Electives</b>			
Choose appropriate performing art requirement for career path.			

# Industrial Pathway- Automotive Technology

Possible Careers: Auto mechanic, Diesel Mechanic, Motorcycle Mechanic, and other related auto careers

Industrial Pathway- Automotive Technology

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
<b>English (1 Credit)</b>			
Choose appropriate English courses for graduation requirement. 4 Courses needed 9-12 grade.			
Intro to Lit/Comp I English 9 H	Intro to Lit/Comp II English 10 H	American Lit/Comp I AP English 11	Choose course based on requirement and interest.
<b>Mathematics (1 Credit)</b>			
Choose appropriate Math courses for graduation requirement. 4 Courses needed 9-12 grade.			
Algebra I A Algebra I B Algebra I Algebra II H Geometry H	Algebra I B Algebra II Geometry H Pre-Calc Trig H	Geometry Trigonometry Geometry H PCT 124 (.5)/125 (.5) Pre-Calc Trig H Calc I H(*if completed no more math required)	PCT 124 (.5)/125 (.5)  Choose course based on requirement and interest.
<b>Social Studies (1 Credit)</b>			
Choose appropriate Social Studies courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
US History US History H	Civics & Government Civics & Government H AP Government	Modern World History Modern World History H (PCT) AP European History AP US History	Choose course based on requirement and interest.
<b>Science (1 Credit)</b>			
Choose appropriate Science courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
Biology I Biology I H	Integrated Science Chemistry I Chemistry I H	Chemistry I Physics I	Choose course based on requirement and interest.
<b>Physical Education &amp; Health (1.5 Credits)</b>			
Choose appropriate PE & Health courses for graduation requirement. 3 Courses needed 9-12 grade.			
<b>Automotive Courses</b>			
See electives for your program of study			
Career Pathways (.5) (9 <sup>th</sup> grade Only)	L1 Automotive (CTE) (2cr)	L2 Automotive (CTE) (2cr) Business Management	L3 Automotive (CTE) (2cr) Business Management CTE Leadership
<b>Automotive Electives</b>			
	Intro to Business (.50)	Personal Finance (.5)	Personal Finance (.5)
<b>World Language Electives</b>			
Choose appropriate World Language requirement for career path. Minimum 2 years for post-secondary.			

# Industrial Pathway- Precision Machining

Possible Careers: Machinist, Industrial Engineer, Tool and Die Maker, and Machinery Mechanic

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
<b>English (1 Credit)</b>	<b>English (1 Credit)</b>	<b>English (1 Credit)</b>	<b>English (1 Credit)</b>
Choose appropriate English courses for graduation requirement. 4 Courses needed 9-12 grade.			
Intro to Lit/Comp I English 9 H	Intro to Lit/Comp II English 10 H	American Lit/Comp I AP English 11	Choose course based on requirement and interest.
<b>Mathematics (1 Credit)</b>	<b>Mathematics (1 Credit)</b>	<b>Mathematics (1 Credit*)</b>	<b>Mathematics (1 Credit)</b>
Choose appropriate Math courses for graduation requirement. 4 Courses needed 9-12 grade.			
Algebra I A Algebra I B Algebra I Algebra II H Geometry H	Algebra I B Algebra II Geometry H Pre-Calc Trig H	Geometry Trigonometry Geometry H PCT 124 (.5)/125 (.5) Pre-Calc Trig H Calc I H(*if completed no more math required)	PCT 124 (.5)/125 (.5)  Choose course based on requirement and interest.
<b>Social Studies (1 Credit)</b>	<b>Social Studies (1 Credit)</b>	<b>Social Studies (1 Credit)</b>	<b>Social Studies (0/1 Credit)</b>
Choose appropriate Social Studies courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
US History US History H	Civics & Government Civics & Government H AP Government	Modern World History Modern World History H (PCT) AP European History AP US History	Choose course based on requirement and interest.
<b>Science (1 Credit)</b>	<b>Science (1 Credit)</b>	<b>Science (1 Credit)</b>	<b>Science (0/1 Credit)</b>
Choose appropriate Science courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
Biology I Biology I H	Integrated Science Chemistry I Chemistry I H	Chemistry I Physics I	Choose course based on requirement and interest.
<b>Physical Education &amp; Health (1.5 Credits)</b>			
Choose appropriate PE & Health courses for graduation requirement. 3 Courses needed 9-12 grade.			
<b>Precision Machining Courses</b>			
See electives for your program of study			
Career Pathways (.5) (9 <sup>th</sup> grade Only) Intro to Precision Machining (.5)	L1 Precision Machining (CTE) (2cr)	L2 Precision Machining (CTE) (2cr) PCT AutoCad	L3 Precision Machining (CTE) (2cr) PCT AutoCad CTE Leadership
<b>Precision Machining Electives</b>			
	Intro to Business (.50)	Personal Finance (.5)	Personal Finance (.5)
<b>World Language Electives</b>			
Choose appropriate World Language requirement for career path. Minimum 2 years for post-secondary.			
<b>Performing Arts Electives</b>			
Choose appropriate performing art requirement for career path.			

## Industrial Pathway- **Welding**

Possible Careers: Welder’s Assistant, Welder.

<b>FRESHMAN</b>	<b>SOPHOMORE</b>	<b>JUNIOR</b>	<b>SENIOR</b>
<b>English (1 Credit)</b>	<b>English (1 Credit)</b>	<b>English (1 Credit)</b>	<b>English (1 Credit)</b>
Choose appropriate English courses for graduation requirement. 4 Courses needed 9-12 grade.			
Intro to Lit/Comp I English 9 H	Intro to Lit/Comp II English 10 H	American Lit/Comp I AP English 11	Choose course based on requirement and interest.
<b>Mathematics (1 Credit)</b>	<b>Mathematics (1 Credit)</b>	<b>Mathematics (1 Credit*)</b>	<b>Mathematics (1 Credit)</b>
Choose appropriate Math courses for graduation requirement. 4 Courses needed 9-12 grade.			
Algebra I A Algebra I B Algebra I Algebra II H Geometry H	Algebra I A Algebra II Geometry H Pre-Calc Trig H	Geometry Trigonometry Geometry H PCT 124 (.5)/125 (.5) Pre-Calc Trig H Calc I H(*if completed no more math required)	PCT 124 (.5)/125 (.5)  Choose course based on requirement and interest.
<b>Social Studies (1 Credit)</b>	<b>Social Studies (1 Credit)</b>	<b>Social Studies (1 Credit)</b>	<b>Social Studies (0/1 Credit)</b>
Choose appropriate Social Studies courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
US History US History H	Civics & Government Civics & Government H AP Government	Modern World History Modern World History H (PCT) AP European History AP US History	Choose course based on requirement and interest.
<b>Science (1 Credit)</b>	<b>Science (1 Credit)</b>	<b>Science (1 Credit)</b>	<b>Science (0/1 Credit)</b>
Choose appropriate Science courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
Biology I Biology I H	Integrated Science Chemistry I Chemistry I H	Chemistry I Physics I	Choose course based on requirement and interest.
<b>Physical Education &amp; Health (1.5 Credits)</b>			
Choose appropriate PE & Health courses for graduation requirement. 3 Courses needed 9-12 grade.			
<b>Welding Courses</b>			
See electives for your program of study			
Career Pathways (.5) (9 <sup>th</sup> grade Only) Intro to Precision Machining(.25)	PCT L1 Welding (CTE) (2cr)	PCT L2 Welding (CTE) (2cr) PCT AutoCad	PCT L3 Welding (CTE) (2cr) PCT AutoCad CTE Leadership
<b>Welding Electives</b>			
		Personal Finance (.5)	Personal Finance (.5)
<b>World Language Electives</b>			
Choose appropriate World Language requirement for career path. Minimum 2 years for post-secondary.			
<b>Performing Arts Electives</b>			
Choose appropriate performing art requirement for career path.			

# Science, Technology, Engineering, Mathematics (STEM) Pathway

This pathway is designed to cultivate students' interests in the life, physical and behavioral sciences.

## Pathways Focus Areas

### Science, Technology and Math

### Agriculture, Food and Natural Resources

<b>Are you interested in ...</b>	<b>Can you...</b>	<b>Do you enjoy...</b>
Science and medicine Medical research Environment and conservation Pharmacy Engineering Physical therapy Sports/fitness Information systems Conservation Radiology	Pay attention to detail Use a computer and technology Work in a lab setting or medical facility Apply a scientific theory to real life problems Work outdoors around animals and plants Collect and analyze data from experiments Work with people in need Work with science and math theories	Diagnosing and caring for sick animals Working outdoors with wildlife Solving problems Working on cutting-edge scientific research Working on a team Medical lab research Making a contribution to society Working with numbers Developing conclusion from a database

If you answered “yes” to most of these questions, you might consider a future in one of the same occupations listed below based on their level of post-secondary training.

## Sample Careers

<b>Entry (OJT)</b>	<b>Technical/Skilled (1-3 yrs)</b>	<b>Professional (4 + yrs)</b>
Animal Caretaker Extension Services Worker Farm Manager Food Conservation Worker Zoo Caretaker Hazardous Waste Technician Optician Laboratory Assistant Engineering Assistant Data Entry Computer Operations	Radiological Technician Pharmacy Technicians Respiratory Therapist Dental Lab Technician Fish and Game Worker Forest Conservationist Information Technology Nano Technician Sound Engineer Personal Trainer Emergency Medical Technician Laser Technician Air Traffic Controller Natural Science Technicians Mapping Technicians Computer Programming	Pharmacists Physician Sustainable Engineering Agronomist Geologist Marine Biologist Soil Conservationist Veterinarian Chemical Engineer Geneticist Statistician Zoologist Civil Engineer Astronaut Nuclear Engineer Petroleum Engineer NASA Scientist Physical Scientist Life Scientist Systems Analyst



# STEM Pathway- Biotechnology

Possible Careers: Laboratory Assistant, radiologist, pharmacy technician, pharmacist

STEM Pathway- Biotechnology

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
<b>English (1 Credit)</b>	<b>English (1 Credit)</b>	<b>English (1 Credit)</b>	<b>English (1 Credit)</b>
Choose appropriate English courses for graduation requirement. 4 Courses needed 9-12 grade.			
Intro to Lit/Comp I English 9 H	Intro to Lit/Comp II English 10 H	American Lit/Comp I AP English 11	Choose course based on requirement and interest.
<b>Mathematics (1 Credit)</b>	<b>Mathematics (1 Credit)</b>	<b>Mathematics (1 Credit*)</b>	<b>Mathematics (1 Credit)</b>
Choose appropriate Math courses for graduation requirement. 4 Courses needed 9-12 grade.			
Algebra I A Algebra I B Algebra I Algebra II H Geometry H	Algebra I B Algebra II Geometry H Pre-Calc Trig H	Geometry Trigonometry Geometry H PCT 124 (.5)/125 (.5) Pre-Calc Trig H Calc I H(*if completed no more math required)	PCT 124 (.5)/125 (.5)  Choose course based on requirement and interest.
<b>Social Studies (1 Credit)</b>	<b>Social Studies (1 Credit)</b>	<b>Social Studies (1 Credit)</b>	<b>Social Studies (0/1 Credit)</b>
Choose appropriate Social Studies courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
US History US History H	Civics & Government Civics & Government H AP Government	Modern World History Modern World History H (PCT) AP European History AP US History	Choose course based on requirement and interest. **Only 3 courses required for CTE Completer.
<b>Science (1 Credit)</b>	<b>Science (1 Credit)</b>	<b>Science (1 Credit)</b>	<b>Science (0/1 Credit)</b>
Choose appropriate Science courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
Biology I Biology I H	Integrated Science Chemistry I Chemistry I H	Chemistry I Physics I Anatomy/Physiology Anatomy/Physiology H AP Biology AP Chemistry	Physics I Anatomy/Physiology Anatomy/Physiology H AP Biology AP Chemistry AP Environmental Science
<b>Physical Education &amp; Health (1.5 Credits)</b>			
Choose appropriate PE & Health courses for graduation requirement. 3 Courses needed 9-12 grade.			
<b>Biotechnology Courses</b>			
See electives for your program of study			
Career Pathways (.5) (9 <sup>th</sup> grade Only)	L1 Biotechnology (CTE) (2cr)	L2 Biotechnology (CTE) (2cr)	L3 Biotechnology(CTE) (2cr) CTE Leadership
<b>Biotechnology Electives</b>			
AP Chem	AP Bio		
<b>World Language Electives</b>			
Choose appropriate World Language requirement for career path. Minimum 2 years for post-secondary.			

## STEM Pathway- Engineering/Robotics

Possible Careers: Robotics, Different Engineering Disciplines (electrical, mechanical, etc.)

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
<b>English (1 Credit)</b>	<b>English (1 Credit)</b>	<b>English (1 Credit)</b>	<b>English (1 Credit)</b>
Choose appropriate English courses for graduation requirement. 4 Courses needed 9-12 grade.			
Intro to Lit/Comp I English 9 H	Intro to Lit/Comp II English 10 H	American Lit/Comp I AP English 11	Choose course based on requirement and interest.
<b>Mathematics (1 Credit)</b>	<b>Mathematics (1 Credit)</b>	<b>Mathematics (1 Credit*)</b>	<b>Mathematics (1 Credit)</b>
Choose appropriate Math courses for graduation requirement. 4 Courses needed 9-12 grade.			
Algebra I A Algebra I B Algebra I Algebra II H Geometry H	Algebra I B Algebra II Geometry H Pre-Calc Trig H	Geometry Trigonometry Geometry H PCT 124 (.5)/125 (.5) Pre-Calc Trig H Calc I H(*if completed no more math required)	PCT 124 (.5)/125 (.5)  Choose course based on requirement and interest.
<b>Social Studies (1 Credit)</b>	<b>Social Studies (1 Credit)</b>	<b>Social Studies (1 Credit)</b>	<b>Social Studies (0/1 Credit)</b>
Choose appropriate Social Studies courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
US History US History H	Civics & Government Civics & Government H AP Government	Modern World History Modern World History H (PCT) AP European History AP US History	Choose course based on requirement and interest. **Only 3 courses required for CTE Completer.
<b>Science (1 Credit)</b>	<b>Science (1 Credit)</b>	<b>Science (1 Credit)</b>	<b>Science (0/1 Credit)</b>
Choose appropriate Science courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
Biology I Biology I H	Integrated Science Chemistry I Chemistry I H	Chemistry I Physics I AP Physics I	AP Chemistry AP Physics I AP Physics II
<b>Physical Education &amp; Health (1.5 Credits)</b>			
Choose appropriate PE & Health courses for graduation requirement. 3 Courses needed 9-12 grade.			
<b>Engineering/Robotics Courses</b>			
See electives for your program of study			
Career Pathways (.5) (9 <sup>th</sup> grade Only)	L1 Engineering (CTE) (2cr)	L2 Engineering (CTE) (2cr) PCT AutoCad	L3 Engineering (CTE) (2cr) PCT AutoCad CTE Leadership
<b>Engineering/Robotics Electives</b>			
<b>World Language Electives</b>			
Choose appropriate World Language requirement for career path. Minimum 2 years for post-secondary.			
<b>Performing Arts Electives</b>			

# STEM Pathway- Computer Information Technology

Possible Careers: Software/Computer Engineer, Programmer, Repair, Networking, and Systems Analyst

STEM Pathway: CIT

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
<b>English (1 Credit)</b>			
Choose appropriate English courses for graduation requirement. 4 Courses needed 9-12 grade.			
Intro to Lit/Comp I English 9 H	Intro to Lit/Comp II English 10 H	American Lit/Comp I AP English 11	Choose course based on requirement and interest.
<b>Mathematics (1 Credit)</b>			
Choose appropriate Math courses for graduation requirement. 4 Courses needed 9-12 grade.			
Algebra I A Algebra I B Algebra I Algebra II H Geometry H	Algebra I B Algebra II Geometry H Pre-Calc Trig H	Geometry Trigonometry Geometry H PCT 124 (.5)/125 (.5) Pre-Calc Trig H Calc I H(*if completed no more math required)	Choose course based on requirement and interest.
<b>Social Studies (1 Credit)</b>			
Choose appropriate Social Studies courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
US History US History H	Civics & Government Civics & Government H AP Government	Modern World History Modern World History H (PCT) AP European History AP US History	Choose course based on requirement and interest. **Only 3 courses required for CTE Completer.
<b>Science (1 Credit)</b>			
Choose appropriate Science courses for graduation requirement. 3 or 4 Courses needed 9-12 grade. **See below			
Biology I Biology I H	Integrated Science Chemistry I Chemistry I H	Chemistry I Physics I AP Physics I	AP Physics I AP Physics II
<b>Physical Education &amp; Health (1.5 Credits)</b>			
Choose appropriate PE & Health courses for graduation requirement. 3 Courses needed 9-12 grade.			
<b>CIT Courses</b>			
See electives for your program of study			
Career Pathways (.5) (9 <sup>th</sup> grade Only)	L1 CIT	L2 CIT	L3 CIT CTE Leadership
<b>CIT Electives</b>			
	Intro to Business (.5) Computer Apps I (.5) Computer Apps II (.5) Computer Programming	Personal Finance (.5) Business Management Computer Programming	Personal Finance (.5) Business Law (.5) Business Comm (.5) Business Management Computer Programming
<b>World Language Electives</b>			
Choose appropriate World Language requirement for career path. Minimum 2 years for post-secondary.			

## CLASS RANK

Class rank is a procedure by which the quality of a student's work is compared with that of his classmates. It is usually expressed as a fraction. For example, a class rank of 12/450 means that this student is twelfth from the top in a class of 450. At WAHS, class rank is calculated by using a formula which recognizes achievement, challenge and course load.

Achievement is determined by the final grade earned in each course. Challenge is determined by the "difficulty factor," a value assigned to each course to indicate its academic demands. The difficulty factor ranges from a high of 1.4 for Honors/1.45AP courses to 1.0 for those courses that are less demanding academically. Difficulty factors may be found in the listing of course titles, beginning on page 39. Course load is the total of all credits up to a maximum of 8 credits per year, including summer school courses, attempted by the student. Summer courses are counted as the following year credit.

A student may improve his class rank by improving his grades, by choosing courses with higher difficulty factors, or by taking more courses (up to 8 credits per year). Class rank is calculated at the end of each marking period, and is cumulative, that is, it includes all work done by the student since his entry into high school. Work completed in eighth grade does not count in the calculation of the WAHS class rank. Most colleges require class rank as a part of the admissions process.

### WAHS Credit-Bearing Opportunities and their Impact on Class Rank and GPA (November 15, 2005)

Type of Program or Opportunity	Fulfills Graduation Requirement	Used to Calculate GPA and Class Rank	Other Notes
Any Dual Enrollment Coursework Early or Middle College Coursework, whether taken for enrichment or to fulfill a Graduation Requirement	Yes	Yes (see Letter Grade Conversion Table)	
Approved College Course (or college-provided high school course) required for Graduation	Yes	Yes	Student attends the post-secondary experience on school time during the school year. Student/parent responsible for all costs incurred. The course undertaken is not part of our Dual Enrollment catalog.
Unapproved College Course (or college-provided high school course) taken for Enrichment, not to fulfill Graduation Requirement	No	No	Student/parent responsible for all costs incurred. Course is not part of the WAHS transcript, but will be a matter of record with the post-secondary institute, and would become part of their transcription process
Approved On-line Course to Satisfy Graduation Requirement.	Yes	Yes (see Letter Grade Conversion Table)	Student/parent responsible for all costs incurred. Potential remedy for schedule conflicts. WAHS must offer the course undertaken or its close equivalent in the course catalog. Course will appear as a WAHS transcript record.
Approved College-level Coursework taken either "live" at a college or on-line through an approved post-secondary provider because the student has "max-ed out" a WAHS curriculum through academic acceleration	Yes	Yes (see Letter Grade Conversion Table)	WASD is responsible for tuition only
Any high school level coursework undertaken at a middle school setting	Yes	No	
Any high school level coursework undertaken at the high school setting prior to 9 <sup>th</sup> grade	Yes	No	
Approved Blended Schools Recovery, Edgenuity learning, Coursework	Yes	Yes	Student/parent responsible for all costs incurred for credit-recovery coursework.
Approved Blended Schools, Edgenuity learning Grade-level Coursework	Yes	Yes	WASD is responsible for costs associated with this type of specialized, approved coursework.

# NCAA COURSE REGULATIONS

***Attention student athletes and parents:*** If participation in college athletics is a possible future consideration, it is important for you to read and understand the following information. If you have any questions about the academic standards, you should contact a high school counselor or call the NCAA eligibility hotline at (877) 262-1492.

In order to participate as a college freshman in Division I or II athletics, the NCAA Initial-Eligibility Clearinghouse must certify a student. Although a student does not begin the certification process before the end of the junior year in high school, he/she begins to meet the eligibility requirements in ninth grade with the courses selected and the grades achieved. Thus, course selection is extremely important.

To be certified by the Clearinghouse, you must:

1. **Graduate from high school.**
2. **Division I: The minimum grade-point average in the 16 core courses and required ACT or SAT score vary according to the Initial-Eligibility Index.** (See your high school counselor for more information) The minimum grade point average is based on a core curriculum from at least 16 academic courses, which were successfully completed during grades nine (9) through twelve (12). Only courses that satisfy the NCAA definition of a core course can be used to calculate the NCAA GPA. Williamsport Area High School courses meeting these requirements are listed on the next page. The following chart shows what core courses must be included at a minimum.
3. **Division II: Earn a grade-point average of at least a 2.0** from a core curriculum in at least 14 academic courses which were successfully completed during grades nine (9) through twelve (12). Only courses that satisfy the NCAA definition of a core course can be used to calculate the NCAA GPA. ***Williamsport Area High School courses meeting these requirements are listed throughout the catalog. The following chart shows what core courses must be included at a minimum.***

**NOTE: Must earn an ACT sum score of 68 or combined score, math & verbal of at least 820 on the SAT on a national test date.**

	Division I	Division II
English Core	4 years	3 years
Math Core (yr. of algebra <i>and</i> yr. of geometry)	3 years	2 years
Science Core (1 year with lab)	2 years	2 years
Social Studies Core	2 years	2 years
Additional Core courses from English, Math, or Science	1 year	2 years
Additional academic (Core) courses in any of the above (English, Math, Science, Social Studies) or world language, computer science, philosophy or non-doctrinal religion	4 years	3 years
<b>TOTAL CORE UNITS REQUIRED</b>	<b>16</b>	<b>14</b>

## Course Change Process

Circumstances under which a course change request might be granted once the school year begins are limited to:

- Lack of prerequisite or necessary academic requirement
- Scheduled for a course that has already been passed
- Scheduled for a repeated course with the same teacher (change must be made within the first week of school)
- Addendum to IEP
- Seniors meeting “Life Experiences” criteria within the one-week window to do so
- Students wishing to enrich their schedule, provided eligibility requirements are met
- Any accelerated student in 8th grade from one of the district’s middle schools undertaking a WHS course at the high school may drop the course and return to his/her middle school upon written parental request, and notification of the middle school principal involved.

Circumstances for a course to be considered for drop/add:

- teacher recommendation
- misplacement or prerequisite not met
- student seeks more challenging curricula

Process to complete a course change:

1. Student meets with the school counselor about the course and reviews the circumstances for a proposed course change.
  - Identify the root cause of the problem that triggers the change request
  - Counselor gathers input from teachers impacted by proposed change before making final recommendation to administration
2. When students are opting out of higher-level courses, check that scaffolds/supports are provided prior to making a schedule change.
3. Teacher/guidance contact parent for input on change – written note of a parent/guardian giving consent is required in order to initiate any change. Both Teachers (Dropped and Added) must sign and agree with change. If there is a disagreement the matter must be resolved or the request is denied.
4. Principal must approve or deny request. This will be based on teacher and counselor feedback. If necessary there may need to be further clarification concerning request.
5. Unless there is a unique circumstance that involves the wellbeing/safety of a student, course changes must be completed before interim progress reports of the first quarter of the course.
6. Waiting Period: After a student has met with their guidance counselor, there will be a two-day waiting period before a change will be made in order to contact all the necessary individuals. When possible the student will observe the course to which they are being added.

*Parental consent must be obtained in order to initiate the course change process. Provision of consent does not guarantee that the request will ultimately be granted*

## Course Descriptions

The information, on the following pages, serves to describe each of the courses offered at the high school and, where appropriate, additional pertinent facts have been listed on a subject-by-subject basis.

*The difficulty factor (D.F.) is a value assigned to each course to indicate its academic demands. Difficulty factors are used in calculating class rank. Class rank, in turn, compares the academic quality of a student's work to that of other classmates.*

### Course Requirements English Department

Four English courses are required, one at each grade level 9-12. Consult with present English teacher for guidance in selecting the proper course.

#### TYPICAL ENGLISH COURSE SEQUENCING



Year	Academic Sequence	Honors Sequence
9 <sup>th</sup> Grade	Intro to Lit/Comp I	English 9 H
10 <sup>th</sup> Grade	Intro to Lit/Comp II	English 10 H
11 <sup>th</sup> Grade	American Lit/Comp	AP Language & Composition
12 <sup>th</sup> Grade	English 12 PCT English	AP Literature & Composition







#### ELECTIVE ENGLISH CLASSES

<b>Personal Communication</b>	<b>Journalism I/II</b>
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\* Students will be required to take end-of-course literature Keystone Exam at the end of 10<sup>th</sup> grade year.

### English Course Descriptions

<b>Course Name and Number</b>	<b>Difficulty Level</b>	<b>Credit</b>	
<b>Intro to Lit/Composition I (00190)</b>	<b>1.2</b>	<b>1.0</b>	
<b>Course Description</b>			
Introduction to Literature & Composition I develops students' language arts skills in reading, writing, speaking, and listening. The study of literature includes: short story, literary nonfiction, speeches, informational texts, novels, drama and poetry studied within thematic units. The writing program stresses the use of the writing process as students develop their voice and style. In addition, students practice writing and responding to prompts similar to those used on the Keystone Literature exam.			
<b>Course Name and Number</b>	<b>Difficulty Level</b>	<b>Credit</b>	
<b>English 9 Honors (00090)</b>	<b>1.4</b>	<b>1.0</b>	
<b>Course Description</b>			
English 9 Honors focuses on creative and analytical writing, speaking, listening and critical thinking skills through the study of themes in literature and author's purpose in nonfiction texts. Writing in the course stresses the writing process and encourages students to develop a sense of voice and an awareness of audience. In addition, students learn to create thesis statements and provide support for these statements. Author's purpose and analysis of literary elements is explored through reading and discussing plays, poetry, novels, short stories and nonfiction in thematic units. The course focuses on careful reading of these literary and nonfiction works. The writing and reading programs also help students to achieve proficiency on the Keystone Literature exam.			

Course Name and Number	Difficulty Level	Credit	
<b>Intro to Lit/Composition II (00020)</b>	<b>1.2</b>	<b>1.0</b>	
<b>Course Description</b> Introduction to Literature & Composition II offers students further development in Language Arts and in reading, writing, speaking, and listening skills and intensive practice of the skills required to be proficient on the end of course exam, the Keystone Literature test. The study of literature includes: short story, literary nonfiction, speeches, informational texts, novels, drama and poetry studied within thematic units. The writing program stresses the use of the writing process as students analyze texts and continue to refine their own voice and style. In addition, students practice writing and responding to prompts similar to those used on the Keystone Literature exam.			
Course Name and Number	Difficulty Level	Credit	
<b>English 10 H (00010)</b>	<b>1.4</b>	<b>1.0</b>	
<b>Course Description</b> English 10 Honors provides the student with the opportunity to improve specific language, composition and reading skills. Compositional emphasis is placed on developing a thesis and offering support for it through citation, and on writing the tightly structured critical essay. Ideas behind literature, historical movements, art and music are offered as means of placing literature within both historical and a social context. The study of selections from world literature spans the time-line from Sophocles to modern authors and offers exposure to both famous writers and those who are less well known. Literary criticism of specific works is studied in order to enhance the students' understanding of others' thinking. Focus is given to text structures, text analysis and critical thinking skills, vocabulary study, supplementary reading and Keystone Literature exam preparation.			
Course Name and Number	Difficulty Level	Credit	
<b>American Lit/Comp (00120)</b>	<b>1.2</b>	<b>1.0</b>	
<b>Course Description</b> American Literature and Composition offers students further development in reading, writing, speaking, and listening skills. The study of literature in American Literature and Composition consists of a survey course of texts written by American authors. The course focuses on composition, including the completion of a character analysis essay and a research based argumentative essay. Mechanics and usage, critical reading, analysis of texts and observation, organization and support of ideas, historic perspective and literary appreciation are emphasized.			
Course Name and Number	Difficulty Level	Credit	
<b>AP English 11: English Lang and Comp (00340)</b>	<b>1.45</b>	<b>1.0</b>	
<b>Course Description</b> The third course in the honors English sequence, AP English Language and Composition, is designed to help students become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and to become skilled writers who can compose for a variety of purposes. Students learn to analyze and evaluate the audience, purpose, and rhetorical strategies used by a wide variety of authors. This course prepares students for the Advanced Placement English Language and Composition Examination given in May. This course also prepares students for senior level English course offerings at the WAHS in AP Literature or Penn College's dual enrollment composition course as it offers exposure to classics in American Literature and many components of an introductory college composition course.  <b>Students enrolled in this course are expected to take the Advanced Placement Examination.</b>			
Course Name and Number	Difficulty Level	Credit	 
<b>PCT* English Composition (00100)</b>	<b>1.4</b>	<b>1.0</b>	
<b>Course Description</b> Fundamental writing and research skills with an emphasis on expository writing. Emphasis on analysis, discussion, and practice of writing that explores, explains, and argues. Course work includes a significant research component. 3 Credits <i>This course is taught in accordance with Pennsylvania College of Technology's ENL111: English Composition I</i> <i>Prerequisite(s): Placement by Examination &amp; Completed a WAHS Course in American Literature</i> <i>Recommended Grade: 12 &amp; Students Planning to Attend Penn College</i> <b>*As a dual enrollment course, students must adhere to all Penn College NOW course expectations</b>			



Course Name and Number	Difficulty Level	Credit	
<b>AP English 12: English Lit and Comp (00350)</b>	<b>1.45</b>	<b>1.0</b>	
<p><b>Course Description</b>  AP English 12 prepares the exceptional student of English for the English Literature and Composition Advanced Placement Examination offered in May. Mostly within context of British Literature, students will be required to write interpretations of literature based on a careful observation of textual details, considering the work's structure, style, theme; social and historical values; and such elements as the use of figurative language, imagery, symbolism and tone. This course will require students to write and rewrite formal, extended analyses and timed, in-class responses. The course requires writing to understand, to explain and to evaluate.</p> <p><b>Students enrolled in this course are expected to take the Advanced Placement Examination.</b></p>			
Course Name and Number	Difficulty Level	Credit	
<b>English 12 (00012)</b>	<b>1.2</b>	<b>1.0</b>	
<p><b>Course Description</b>  This academic English course offers students the reading and writing skills and strategies needed to successfully begin a college major and career path. Students will focus on the reading, writing and communication experiences helpful in transitioning to a postsecondary setting. Reading selections will include fiction and nonfiction that students can expect to encounter in a college classroom, place of business or technical field. Writing assignments offer students practical experiences in reporting research findings using MLA and APA documentation styles and communicating information to a variety of audiences through clear, concise, and purposeful writing in multiple forms. Four units are organized around contemporary themes allowing students to read a wide range of fiction and nonfiction relating to the world around them.</p>			
Course Name and Number	Difficulty Level	Credit	
<b>Journalism I (00450) Journalism II (00460)</b>	<b>1.3</b>	<b>1.0</b>	
<p><b>Course Description</b>  The full-year elective course in yearbook journalism helps students to understand the world of journalistic research, interviewing, writing, photography, theme development, cover design, layout, design of spreads within sections of the yearbook and publishing through hands-on experiences in creating the school's yearbook.</p> <p><i>Prerequisite: Membership on the yearbook staff or written permission of the instructor.</i></p>			
Course Name and Number	Difficulty Level	Credit	
<b>Personal Communication (0051X)</b>	<b>1.2</b>	<b>0.50</b>	
<p><b>Course Description</b>  The formal study of public speaking allows students to understand theory and to practice the techniques of effective oral communication. A strong emphasis is placed on students understanding and adapting speech based on the rhetorical relationships between a speaker, audience, and subject. Students write and present a variety of speeches, craft creative, analytical, persuasive, and expository writings.</p> <p><i>Recommended Grades: 11<sup>th</sup>- 12<sup>th</sup>.</i></p>			

# Course Requirements

## Social Studies Department

Three to four Social Studies courses are required within grade levels 9-12. It is recommended students consult with Social Studies faculty for guidance in selecting Social Studies courses.

### TYPICAL SOCIAL STUDIES COURSE SEQUENCING


Year	Academic Sequence	Honors Sequence
9 <sup>th</sup> Grade	US History II	US History II H
10 <sup>th</sup> Grade	Civics and Government	Civics and Government H / AP US Government & Politics
11 <sup>th</sup> Grade	Modern World History Psychology/Sociology	AP European / AP Psychology PCT World History PCT Psychology/ AP US History
12 <sup>th</sup> Grade	Global Studies Psychology/Sociology	AP European / AP Psychology Global Studies H/ PCT World History PCT Psychology/ AP US History


### ELECTIVE SOCIAL STUDIES




*Introduction to Psychology	*Introduction to Sociology
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\* Introduction to Psychology and Sociology count for a social studies credit, either .50 individually or together for 1 credit.





### Course Descriptions: Social Studies

Course Name and Number	Difficulty Level	Credit	
<b>United States History II (10200)</b>	<b>1.2</b>	<b>1.0</b>	
<p><b>Course Description</b>            This course provides a survey of major topics in US History from the 1880s to present. An emphasis will be placed on the social, political, and economic development of the United States. Other themes will include America and the World, Cultural Development, and Geography. Students will use primary documents, biographies, and literature related to the topics covered. An emphasis is placed on reading and writing in the content and historical skill development. This course provides a detailed coverage of United States History designed to meet Common Core Standards and help students develop an understanding of how modern America formed.</p> <p><i>Grade 9 Social Studies</i></p>			



Course Name and Number	Difficulty Level	Credit	
<b>United States History II H (10210)</b>	<b>1.4</b>	<b>1.0</b>	
<p><b>Course Description</b>            This course provides a survey of major topics in US History from the 1880s to present. An emphasis will be placed on the social, political, and economic development of the United States. Other themes addressed will include America and the World, Cultural Development, and Geography. Students will use primary documents, biographies, and literature related to the topics covered. An emphasis is placed on reading, writing, and historical skill development in preparation for future honors level courses or advanced placement course work.</p> <p>This course provides a detailed coverage of United States History designed to meet Common Core Standards and help students develop an understanding of how modern America formed.</p> <p><i>Grade 9 Social Studies</i></p>			

Course Name and Number	Difficulty Level	Credit	
<b>Civics and Government (10060)</b>	<b>1.2</b>	<b>1.0</b>	
<b>Course Description</b>			
<p>This 10<sup>th</sup> grade course will examine America's society, its values, and, what it means to be an American citizen. It will cover the roots of American democracy, the American Revolution, the creation of the Constitution and the birth of our nation. This will then lead into an understanding of our government and the importance of participating in the political process on all levels including local, state, and federal. Policy-making, creation of laws and their enforcement will be discussed which will provide for an understanding of our domestic policies. There will also analysis of foreign policy, how it is developed and the impact it has on domestic as well as global affairs.</p> <p><i>Recommended Grades: 10</i></p>			
Course Name and Number	Difficulty Level	Credit	
<b>Civics and Government H (10080)</b>	<b>1.4</b>	<b>1.0</b>	
<b>Course Description</b>			
<p>This 10<sup>th</sup> grade course will examine America's society, its values, and, what it means to be an American citizen. It will cover the roots of American democracy, the American Revolution, the creation of the Constitution and the birth of our nation. This will then lead into an understanding of our government and the importance of participating in the political process on all levels including local, state, and federal. Policy-making, creation of laws and their enforcement will be discussed which will provide for an understanding of our domestic policies. There will also analysis of foreign policy, how it is developed and the impact it has on domestic as well as global affairs.</p> <p><i>Recommended Grades: 10</i></p>			
Course Name and Number	Difficulty Level	Credit	
<b>AP US Government and Politics (10220)</b>	<b>1.45</b>	<b>1.0</b>	
<b>Course Description</b>			
<p>AP United States Government and Politics prepares the exceptional student of U.S. government for the Advanced Placement examination. The course meets the Pennsylvania Civics and Government Standards by providing students an analytical perspective on government and politics in the United States. Students will examine the development and Constitutional basis of our government with particular attention focused on federalism and the separation of powers. Political beliefs and behaviors, political parties, interest groups, public policy, Congress, the presidency, bureaucracy, the federal courts, and the mass media will be examined in detail. The development of individual rights and liberties and their impact on citizens will be studied through an analysis of the workings of the Supreme Court and its most significant decisions. Students will be expected to use primary documents, biographies, political literature, and original research. They will complete document based as well as content focused assessments. Students enrolled in this course are strongly encouraged to take the Advanced Placement Examination in United States Government and Politics.</p> <p>Successful students are 1) willing and able devote considerable time to read texts and master course materials, 2) self-motivated learners who commit to reading and studying on a daily basis, and 3) highly organized students who monitor their progress throughout the course. Students who lack study time due to other commitments or students with poor organization skills will have difficulty succeeding in this course. It is recommended that students have achieved a high average in either AP United States Government and Politics or Civics and Government (Honors). Students enrolled in AP United States History are expected to take the Advanced Placement Examination in May.</p> <p><b>Students enrolled in this course are expected to take the Advanced Placement Examination</b></p>			

Course Name and Number	Difficulty Level	Credit	
<b>AP United States History (10110)</b>	<b>1.45</b>	<b>1.0</b>	
<p><b>Course Description</b>  AP United States History prepares the exceptional student of United States History for the Advanced Placement examination administered near the end of the school year in May. The course begins with pre-Columbian America (pre-1492) and ends with the present. Students are expected to read a college-level textbook, along with supplemental articles written by professional historians. Students will also analyze primary sources from all periods of U.S. history. The course will involve students in research, analysis, writing, class presentations, and periodic assessments. Students will learn to construct document-based essays using analysis, evaluation, and integration with other material.</p> <p>Successful students are 1) willing and able devote considerable time to read texts and master course materials, 2) self-motivated learners who commit to reading and studying on a daily basis, and 3) highly organized students who monitor their progress throughout the course. Students who lack study time due to other commitments or students with poor organization skills will have difficulty succeeding in this course. It is recommended that students have achieved a high average in either AP United States Government and Politics or Civics and Government (Honors). Students enrolled in AP United States History are expected to take the Advanced Placement Examination in May.</p> <p><b>Students enrolled in this course are expected to take the Advanced Placement Examination.</b></p>			
Course Name and Number	Difficulty Level	Credit	
<b>Modern World History A (10320)</b>	<b>1.2</b>	<b>1.0</b>	
<p><b>Course Description</b>  This course provides a thorough coverage of world history from 1500 through the present. Students will use skills of chronological thinking, historical comprehension, historical research, critical thinking, connections across time, and fundamentals of historical interpretation as they examine the history of mankind. Units of study in this course include the Renaissance and Reformation, the Age of Exploration, Ideas and Revolutions, Developing Nationalism, Wars and Revolutions, as well as the histories of Russia, the Middle East, and the Far East. Students will continually examine global interdependence and the unresolved problems of the modern world.</p> <p><i>Grade 11</i></p>			
Course Name and Number	Difficulty Level	Credit	 
<b>PCT World History II (10350)</b>	<b>1.40</b>	<b>1.0</b>	
<p><b>Course Description</b>  Study of the history of humankind from A.D. 1500 to the present. Equal emphasis is placed on the political, economic, and social development of Western and non-Western civilizations. Students will use skills of chronological thinking, historical comprehension, historical research, and fundamentals of historical interpretation as they examine the history of mankind. Units of study in this course include the Globe Encompassed, Renaissance and Reformation, the Age of Exploration, Ideas and Revolutions, as well as growth and development of land empires, Imperialism, and developments of the 20<sup>th</sup> century. Students will be expected to use primary documents, internet technology, and research and presentation skills as they address historical problems. 3 Credits</p> <p><b>Prerequisite:</b> <i>Grades: 11 or 12 (honors or higher level students willing to complete college level course work)</i>  <i>* As a dual enrollment course, students must adhere to all Penn College NOW course expectations and demonstrate proficiency in reading.</i>  <i>* This course meets PCT requirements and is taught in accordance with Pennsylvania College of Technology's HIS126: World History II</i>  <i>* As a dual enrollment course, this course is offered in lieu of and will also be given credit for a WAHS honors course.</i></p>			
Course Name and Number	Difficulty Level	Credit	
<b>Global Studies (10360)</b>	<b>1.2</b>	<b>1.0</b>	
<p>Global Studies is a current &amp; topical look at the forces driving globalization. From democratization, human rights, social issues, politics, global economics and geography to terrorism, pandemics, conflicts, culture, religion and environmental concerns; this course explores global issues that transcend boundaries and are challenging the international system. This course places complex issues into comprehensive context and explains the growing political, economic, and cultural interdependence visible in the headlines and in peoples' lives. The areas of study will include the Americas, Europe, the Middle East, Africa and Asia.</p> <p><i>This is a 12th grade course selection.</i></p>			

Course Name and Number	Difficulty Level	Credit	
<b>Global Studies H (10370)</b>	<b>1.4</b>	<b>1.0</b>	
<p>Global Studies is a current &amp; topical look at the forces driving globalization. From democratization, human rights, social issues, politics, global economics and geography to terrorism, pandemics, conflicts, culture, religion and environmental concerns; this course explores global issues that transcend boundaries and are challenging the international system. This course places complex issues into comprehensive context and explains the growing political, economic, and cultural interdependence visible in the headlines and in peoples' lives. The areas of study will include the Americas, Europe, the Middle East, Africa and Asia.</p> <p>As this course surveys a wide range of global issues, it encourages understanding our global environment as a foundation for students' social, political, and economic engagement beyond the classroom.</p> <p>Students will read, write, discuss, analyze and take positions on multiple topics in order to frame and defend arguments. Students will use a variety of print and non-print sources to analyze and suggest solutions to real-world problems and to analyze environmental and societal issues. Students will develop critical thinking skills and perspectives to better understand the world around them. Students should expect to experience the use of technology, research and critical/analytical thinking.</p> <p><i>This is a 12th grade course selection.</i></p>			
Course Name and Number	Difficulty Level	Credit	
<b>AP European History (10710)</b>	<b>1.45</b>	<b>1.0</b>	
<p><b>Course Description</b></p> <p>AP European History prepares the exceptional student of European History for the Advanced Placement examination. The scope of this course will include major events and trends from the Renaissance (c.1450) through the present. Broad consideration will be given to global concepts to show European impact on the world. Students will be expected to use primary documents, biographies, literature of each historical period, and original research in their study. Research projects and papers are basic to this course. Students will be expected to complete document based as well as content focused assessments. This course is designed to provide a detailed coverage of European History. Skills required: critical thinking, analysis of specific textual content, integrate and evaluate multiple sources, decipher between tone and mood, evaluate point of view, and draw connections across time. An emphasis on reading and writing is paramount in this AP course as all level of work reflects AP curriculum.</p> <p>Successful students are 1) willing and able devote considerable time to read texts and master course materials, 2) self-motivated learners who commit to reading and studying on a daily basis, and 3) highly organized students who monitor their progress throughout the course. Students who lack study time due to other commitments or students with poor organization skills will have difficulty succeeding in this course. It is recommended that students have previously achieved successful completion of an AP level Social Studies course. Students enrolled in AP European History are expected to take the Advanced Placement Examination in May.</p> <p><b>Students enrolled in this course are expected to take the Advanced Placement Examination.</b></p>			
Course Name and Number	Difficulty Level	Credit	
<b>Introductory Sociology (1051X)</b>	<b>1.2</b>	<b>.50</b>	
<p><b>Course Description</b></p> <p>Sociology is an interdisciplinary approach to the study of human behavior and relationships. The course will incorporate concepts from the behavioral sciences of sociology, psychology, and anthropology, and apply them to the individual and to his life as a member of various groups.</p> <p><i>Grades: 11 and 12</i></p>			
Course Name and Number	Difficulty Level	Credit	
<b>Introductory Psychology (1061X)</b>	<b>1.2</b>	<b>.50</b>	
<p><b>Course Description</b></p> <p>Introductory Psychology is a highly interactive course designed to introduce students to psychology as preparation for more in-depth study in college. This course is also for students who have an interest in human behavior and who enjoy hands-on activities and vigorous discussion. After studying the history of and differing approaches to psychology, students will examine the critical role of the brain, sensation, perception, learning, memory, personality and consciousness. These units will provide a framework for the study of life span development and psychological disorders and their treatment.</p>			

Grades: 11 and 12

Course Name and Number	Difficulty Level	Credit		
<b>PCT Psychology (10630)</b>	<b>1.4</b>	<b>1.0</b>		

### Course Description

#### PCT Psychology

A college level introduction to the science of human behavior and mental processes. Students examine the relation between the nervous system and behavior, learning, perception, language, personality, intelligence, and psychopathology. **Introductory Psychology is not a pre-requisite, although it is highly recommended.**

Successful students are 1) willing and able devote considerable time to read texts and master course materials, 2) self-motivated learners who commit to reading and studying on a daily basis, and 3) highly organized students who monitor their progress throughout the course. Students who lack study time due to other commitments or students with poor organization skills will have difficulty succeeding in this course. It is recommended that students have previously achieved successful completion of rigorous courses. 3 Credits

*\*This course meets PCT requirements and is taught in accordance with Pennsylvania College of Technology's PSY 111: General Psychology course work, course requirements and expectations. Successful completion of this course does count for social studies credit.*

*\* Grades: 11 or 12 (honors or higher level students willing to complete college level course work)*

*\* As a dual enrollment course, students must adhere to all Penn College NOW course expectations and demonstrate proficiency in reading.*

*\* As a dual enrollment course, this course is offered in lieu of and will also be given credit for a WAHS honors course.*

Course Name and Number	Difficulty Level	Credit	
<b>AP Psychology (10620)</b>	<b>1.45</b>	<b>1.0</b>	

### Course Description

AP Psychology prepares the exceptional student of Psychology for the Advanced Placement examination. The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. Students enrolled in this course are expected to take the Advanced Placement Examination in May. Introductory Psychology is not a pre-requisite, although it is recommended.

Successful students are 1) willing and able devote considerable time to read texts and master course materials, 2) self-motivated learners who commit to reading and studying on a daily basis, and 3) highly organized students who monitor their progress throughout the course. Students who lack study time due to other commitments or students with poor organization skills will have difficulty succeeding in this course. It is recommended that students have previously achieved successful completion of an AP level course.

**Students enrolled in this course are expected to take the Advanced Placement Examination.**

## Course Requirements

### Mathematics Department

Four (4) math courses are required for graduation. Our most successful students graduate with four math courses, making their transcripts much more competitive as they seek admission to post-graduate school or as they enter the workplace.




#### TYPICAL MATH COURSE SEQUENCING







Year	Academic Sequence		Honors Sequence
9 <sup>th</sup> Grade	Algebra 1A	Algebra 1 *	Algebra 2H
10 <sup>th</sup> Grade	Algebra 1B*	Algebra 2	Geometry H/AP Computer Science A
11 <sup>th</sup> Grade	Geometry	Geometry	PreCalc/Trigonometry H/PCT Math 123/125, AP Computer Science A
12 <sup>th</sup> Grade	Algebra 2/Career Mathematics	Trigonometry/PCT Math/Statistics/ Career Mathematics/Algebra III	AP Calculus 1 / AP Calculus 2 / AP Statistics/AP Computer Science A

\* Students will be required to take end-of-course Algebra 1 Keystone Exam.



Elective: Introduction to Computer Science (Semester 0.5 credit)

#### Course Descriptions: Mathematics


Course Name and Number	Difficulty Level	Credit	 ½ credit
<b>Algebra IA (20050)</b>	<b>1.0</b>	<b>1.0</b>	
<b>Course Description</b> This course is the first in a two-course sequence. Algebra 1A will focus on developing foundational algebraic skills assessed on the Keystone Algebra 1 Exam, including: data analysis, operations with real numbers, linear equations and inequalities, coordinate geometry and functions. Students will develop the skills necessary to be successful on the Keystone Exam, following Algebra 1B. Students who were not proficient on the PSSA should be considered for this course.			
Course Name and Number	Difficulty Level	Credit	 ½ credit
<b>Algebra IB (20060)</b>	<b>1.0</b>	<b>1.0</b>	
<b>Course Description</b> This course is the second in a two-course sequence. Algebra 1B will explore a deeper understanding of concepts on the Keystone Algebra 1 Exam, including: data analysis, operations with real numbers, linear equations and inequalities, coordinate geometry and functions. Students will develop the skills necessary to be successful on the Keystone Exam at the end of this course.			
Course Name and Number	Difficulty Level	Credit	
<b>Algebra I (20110)</b>	<b>1.2</b>	<b>2.0</b>	
<b>Course Description</b> Algebra I is taught in a double-block. It is the study of the basic structure of algebra from real numbers through functions and relations. The major topics of this first year course are operations with real numbers and variables, the structure of our number system, the solution and graphing of equations and inequalities, systems of linear equations, operations with polynomials, and the concepts of functions and relations, and data analysis. <i>It is recommended that students are successful in Math 7, Math 8 and are proficient on PSSA 8<sup>th</sup> Grade Math.</i>			



Course Name and Number	Difficulty Level	Credit	
<b>Modern Algebra II (H) (20140)</b>	<b>1.4</b>	<b>1.0</b>	
<b>Course Description</b> Essentially including many of the topics in Algebra II, this honors course moves at a faster pace and treats individual topics in greater depth. There is a greater emphasis on factoring and applications of algebraic properties. <i>It is recommended that students successfully complete Algebra I in middle school.</i>			
Course Name and Number	Difficulty Level	Credit	
<b>Algebra II (20120)</b>	<b>1.2</b>	<b>1.0</b>	
<b>Course Description</b> This continues to develop understanding of Algebraic concepts. Students can expect to solve various non-linear equations. We extend the study of numbers to include irrational and non-real numbers. There will be extensive study on families of functions including linear, polynomial, exponential and logarithmic functions. In addition, there will be a unit of study on data analysis that includes combinations, permutations, odds and the fundamental counting principle. <i>Prerequisite: Algebra I</i>			
Course Name and Number	Difficulty Level	Credit	
<b>Plane Geometry (20220)</b>	<b>1.2</b>	<b>1.0</b>	
<b>Course Description</b> Plane Geometry is a study of logical reasoning, lines, angles, polygons, circles and constructions. It is designed for the average to above average student and includes a balance of theory and application. Algebraic skills are reviewed and strengthened through applications to solving problems in geometry. <i>Prerequisite: Algebra I</i>			
Course Name and Number	Difficulty Level	Credit	
<b>Modern Geometry (H) (20230)</b>	<b>1.4</b>	<b>1.0</b>	
<b>Course Description</b> This course follows the freshman course, Modern Algebra II Honors, and places much emphasis on deductive reasoning within a mathematical system. Theoretical and conceptual descriptions and applications of plane, coordinate, and solid geometry are central to the course. The development of constructions and proofs throughout the course can be expected. <i>It is recommended that students successfully complete Algebra II Honors.</i>			
Course Name and Number	Difficulty Level	Credit	
<b>Trigonometry (20310)</b>	<b>1.2</b>	<b>1.0</b>	
<b>Course Description</b> Trigonometry is a study of circular and trigonometric functions including work with identities, graphs, inverses functions and the study of triangles. After basic concepts have been mastered, trigonometric applications and related topics will be studied. Additional topics include vectors, polar coordinates, and complex numbers. <i>Prerequisite(s): Algebra II and Geometry</i>			
Course Name and Number	Difficulty Level	Credit	
<b>Pre-Calculus with Trigonometry (H) (20320)</b>	<b>1.4</b>	<b>1.0</b>	
<b>Course Description</b> Modern Trigonometry is a pre-calculus course with a major emphasis on analysis of functions. Other topics include trigonometric and other transcendental functions. Additional topics may include conic sections, vectors, polar coordinates, complex numbers, and sequences and series. Hand-held calculators are used on a regular basis and the course includes much work on applications. <i>It is recommended that students successfully complete Algebra II Honors and Modern Geometry Honors.</i>			





Course Name and Number	Difficulty Level	Credit	
<b>Statistics (20450)</b>	<b>1.2</b>	<b>1.0</b>	
<p><b>Course Description</b>  This one-year course for seniors is designed to provide students with a strong foundation for an introductory college statistics course. This course will introduce students to real world applications of displaying and describing data, the normal curve, probability, statistical inference, confidence intervals, and hypothesis tests.  <i>Recommended Grade: 12<sup>th</sup></i>  <i>Prerequisite(s): Algebra II and Geometry</i></p>			
Course Name and Number	Difficulty Level	Credit	
<b>AP Statistics (20440)</b>	<b>1.45</b>	<b>1.0</b>	
<p><b>Course Description</b>  This one-year course for sophomores, junior, or seniors who have completed Algebra II H, or the academic Statistics, is designed to prepare students for the advance placement statistics exam. The course will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to the broad conceptual themes of exploring data, sampling and experimentation, anticipating patterns, and statistical inference.  <i>Recommended Grade: 10<sup>th</sup>, 11<sup>th</sup> and 12<sup>th</sup></i>  <i>Prerequisite(s): Algebra II or Statistics</i>  <b>Students enrolled in this course are expected to take the Advanced Placement Examination.</b></p>			

Course Name and Number	Difficulty Level	Credit
<b>Career Mathematics (20070)</b>	<b>1.0</b>	<b>1.0</b>
<p><b>Course Description</b>  This math course is designed specifically for non-college bound seniors preparing for successful futures beyond high school. Many employers and post-secondary career training programs require applicants to demonstrate core algebra skills as part of the selection process. This course is for seniors only.  <i>Prerequisite: Algebra I</i></p>		

Course Name and Number	Difficulty Level	Credit	
<b>Algebra III (20130)</b>	<b>1.2</b>	<b>1.0</b>	
<p><b>This course is designed for students who plan to attend college.</b> Topics focus on foundational skills that include intermediate algebra and trigonometry, algebraic expressions, linear equations, systems of equations, right triangle trigonometry, functions, graphs, geometry in application, and variation. Topics also include more advanced topics such as factoring, algebraic fractions and equations, quadratic equations, trigonometric functions and graphs, radicals, complex numbers, exponential and logarithmic functions and graphs, nonlinear systems, and inequalities. There is an emphasis on foundational skills and problem solving.  <i>Prerequisite(s): Algebra 1, Algebra 2, Geometry</i></p>			

Course Name and Number	Difficulty Level	Credit		
<b>PCT* Math 123 (20541)</b>	<b>1.4</b>	<b>0.50</b>		
<p><b>Course Description</b>  Study of intermediate algebra and trigonometry, designed to prepare students for course work in their technical majors. Topics include algebraic expressions, linear equations, systems of equations, right triangle trigonometry, functions, graphs, geometry, ratio and proportion, and variation. Emphasis on problem solving and technical application as well as the use of technology. Not designed to prepare students for calculus.  3 Credits (3 Lecture - 0 Lab) Prerequisite(s): MTH005 or Placement by Examination.  <i>*This course meets PCT requirements and is taught in accordance with Pennsylvania College of Technology's MTH 124: Technical Algebra and Trigonometry I course work, course requirements and expectations.</i></p>				


Course Name and Number	Difficulty Level	Credit	 
<b>PCT* Math 125 (20552)</b>	<b>1.4</b>	<b>0.50</b>	

**Course Description**

Study of intermediate algebra and trigonometry, designed to prepare students for course work in their technical majors. Topics include factoring, algebraic fractions and equations, quadratic equations, trigonometric functions and graphs, radicals, complex numbers, exponential and logarithmic functions and graphs, nonlinear systems, and inequalities. Emphasis on problem solving and technical application as well as the use of technology. Not designed to prepare students for calculus. 3 Credits (3 Lecture - 0 Lab)

*Prerequisite(s): PCT MATH 123*


*\*This course meets PCT requirements and is taught in accordance with Pennsylvania College of Technology's MTH 125: Technical Algebra and Trigonometry II course work, course requirements and expectations.*

Course Name and Number	Difficulty Level	Credit	
<b>Calculus I (H)(20350)</b>	<b>1.4</b>	<b>1.0</b>	

**Course Description**

Calculus I Honors is the study of change. This course is designed for students who wish to take calculus but without the Advanced Placement focus. The foundation for this study is limits and function behavior. This course will provide students with an understanding of the basic components of calculus: limits and functions, derivatives, integrals, and applications of all subjects.

*It is recommended that students successfully complete Pre-Calculus with Trigonometry H or Trigonometry with teacher recommendation.*


Course Name and Number	Difficulty Level	Credit	
<b>AP Calculus I (AB) (20510)</b>	<b>1.45</b>	<b>1.0</b>	

**Course Description**

Calculus I AP consists of the study of functions, limits, derivatives, and single variable integrals. Through this course, the students will develop an understanding of the concepts of calculus and provides experience with its methods and applications. This course will cover all material needed for the student to take the Calculus AB Advanced Placement Exam, given in the beginning of May each year. All students taking this course are expected to take the AP Calculus Exam.

*It is recommended that students successfully complete Pre-Calculus with Trigonometry H or Trigonometry with teacher recommendation.*

**Students enrolled in this course are expected to take the Advanced Placement Examination.**


Course Name and Number	Difficulty Level	Credit	
<b>AP Calculus II (BC) (20520)</b>	<b>1.45</b>	<b>1.0</b>	

**Course Description**

Calculus II AP (BC) is a standard second year course in single variable calculus and analytic geometry, involving integration by parts, improper integrals, trigonometric substitution, infinite series, power series and polar coordinates, This course will include the material needed for the student to take the Advanced Placement Test in Calculus BC, given in May of each year. Students are expected to take the AP exam.

*Prerequisite: AP Calculus I*

**Students enrolled in this course are expected to take the Advanced Placement Examination.**


Course Name and Number	Difficulty Level	Credit	
<b>AP Computer Science A (20001)</b>	<b>1.45</b>	<b>1.0</b>	

**Course Description**

AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures.

*Prerequisite: Successful Completion of Algebra II*

**Students enrolled in this course are expected to take the Advanced Placement Examination.**

Course Name and Number	Difficulty Level	Credit	
Intro to Computer Science (20002X)	1.2	0.5	
<b>Course Description</b>			
An interactive introductory course for students brand new to programming that teaches the foundations of computer science using the Python language. Not only will this year-long course prepare students for AP Computer Science A, but it will teach students to think computationally and solve complex problems, skills that are important for every student. This course is a math elective.			
<i>Prerequisite: None</i>			



## Course Requirements Science Department

Three or four science courses are required for graduation with at least one course being completed per year. It is strongly recommended that students planning to major or work in a science, technology, engineering, or math (STEM) related field schedule at least one science course during each year of high school. A well-rounded science education includes taking courses in a wide range of science disciplines including the life sciences, the physical sciences, and the Earth & space sciences.

### RECOMMENDED ACADEMIC AND HONORS SCIENCE COURSE SEQUENCES

Year	Academic Sequence	Honors Sequence
9 <sup>th</sup> Grade	Biology I	Biology I Honors
10 <sup>th</sup> Grade	Chemistry I or Integrated Science	Chemistry I Honors
11 <sup>th</sup> Grade	Physics I or Chemistry I	Elective Science
12 <sup>th</sup> Grade	Elective Science If Desired	Elective Science

### FULL-CREDIT SCIENCE ELECTIVES


Anatomy & Physiology	AP Chemistry (2 Periods)	AP Physics II
Anatomy & Physiology Honors	AP Environmental Science	Physics I
AP Biology	AP Physics I	Topics of Science


## HALF-CREDIT SCIENCE ELECTIVES


Astronomy	Geology	Oceanography
Genetics	Meteorology	

\*Half-credit science electives count for a science credit, either 0.5 individually or together for 1 credit.

## Course Descriptions: SCIENCE


Course Name and Number	Difficulty Level	Credit	
<b>Biology I (30200)</b>	<b>1.2</b>	<b>1.0</b>	
<p><b>Course Description</b>                      This course focuses on mastery of the PA Keystone Biology Assessment Anchors. Students will investigate living things at the molecular, cellular, and organism level. An emphasis will be placed on the structures and processes necessary for all organisms to maintain life. Additional topics to be covered in this course include genetics, ecology, and evolution.</p> <p><b>*Students taking this course will be required to complete the end-of-course Pennsylvania Biology Keystone Exam.</b></p>			


Course Name and Number	Difficulty Level	Credit	
<b>Biology I Honors (30210)</b>	<b>1.4</b>	<b>1.0</b>	
<p><b>Course Description</b>                      This course focuses on mastery of the PA Keystone Biology Assessment Anchors. Students will investigate living things at the molecular, cellular, and organism level. An emphasis will be placed on the structures and processes necessary for all organisms to maintain life. Additional topics to be covered in this course include genetics, ecology and evolution. Essentially covering the same topics as Biology I, this honors course moves at a faster pace, addresses individual topics in greater depth, and fosters critical thinking skills.</p> <p><b>*Students taking this course will be required to complete the end-of-course Pennsylvania Biology Keystone Exam.</b></p>			


Course Name and Number	Difficulty Level	Credit	
<b>Integrated Science (30080)</b>	<b>1.0</b>	<b>1.0</b>	
<p><b>Course Description</b>                      This general science course includes a wide range of topics from several different science disciplines. After reviewing the nature of science and the biological principles that will prepare them for retaking the Biology Keystone Exam, students will begin to explore topics related to the fields of chemistry, physics, environmental science and engineering. Teacher demonstrations, laboratory activities and hands-on projects will complement and reinforce lecture materials.</p>			


This course serve as an introduction to other science courses students may elect to take during their 11<sup>th</sup> and 12<sup>th</sup> grade years.

**\*Students who do not pass Biology I or Biology I Honors will be scheduled for this course during their 10<sup>th</sup> grade year and will retest on the Pennsylvania Biology Keystone exam during the January testing window.**

Course Name and Number	Difficulty Level	Credit	
<b>Chemistry I (30300)</b>	<b>1.2</b>	<b>1.0</b>	
<p><b>Course Description</b>            This course will investigate the composition, structure, and properties of matter and how substances interact and transform. Examples of topics covered include measurements, matter, atomic theory, bonding, nomenclature, moles, reactions, stoichiometry, solutions, gas laws, and acids/bases. Students will learn about the chemical makeup of the world around them and applications of chemistry. Classroom demonstrations and laboratory activities will complement and reinforce lecture materials.</p>			


Course Name and Number	Difficulty Level	Credit	
<b>Chemistry I Honors (30310)</b>	<b>1.4</b>	<b>1.0</b>	
<p><b>Course Description</b>            Essentially covering the same topics as Chemistry I, this honors course moves at a faster pace and addresses individual topics in greater depth. Students can expect a greater emphasis to be placed on significant mathematical applications as well. Classroom demonstrations and laboratory activities will still complement and reinforce lecture materials.</p> <p><i>Co-requisite: Algebra II or Modern Algebra II Honors</i></p>			


Course Name and Number	Difficulty Level	Credit	
<b>Anatomy and Physiology (30250)</b>	<b>1.2</b>	<b>1.0</b>	
<p><b>Course Description</b>            This course will involve an introduction to the structure and function of the human body. Emphasis will be placed on the identification and description of body parts within the major body systems. Students will also spend a considerable amount of time learning about how these body parts function. When possible, laboratory activities, including dissections, will complement and reinforce lecture materials. This course will provide a basic understanding of the human body for anyone interest in learning more about the human body and how it functions.</p> <p><i>This course is designed for 11<sup>th</sup> and 12<sup>th</sup> grade students.</i></p>			


Course Name and Number	Difficulty Level	Credit	
<b>Anatomy and Physiology Honors (30258)</b>	<b>1.4</b>	<b>1.0</b>	
<p><b>Course Description</b>            This course will involve an in-depth study of the structure and function of the human body. Special attention will be given to the integumentary, skeletal, muscular, nervous, endocrine, digestive, circulatory, immune, respiratory, urinary and reproductive systems. Pathology of the human body will be a common area of focus throughout the course as well. Frequent laboratory activities, including dissections, will complement and reinforce lecture materials. This course will</p>			


provide a firm foundation for further study at the post-secondary level and is highly recommended for those students considering a career in the health professions.

*This course is designed for 11<sup>th</sup> and 12<sup>th</sup> grade students. Prerequisites: Biology I Honors and Chemistry I Honors*

Course Name and Number	Difficulty Level	Credit	
<b>Physics I (30400)</b>	<b>1.3</b>	<b>1.0</b>	
<p><b>Course Description</b>            This course studies the physical laws that govern the universe and are the basis for all science courses. Areas of concentration include, forces, energy, uniform circular motion, planetary motion, heat, wave motion, light, electricity and magnetism. This course will be beneficial to all college bound students, as it will enhance their problem-solving skills in science courses. It is also recommended for students intending to pursue careers in science, engineering, or the medical technologies.</p> <p><i>Co-requisite: Trigonometry or Pre-Calculus with Trigonometry Honors</i></p>			


Course Name and Number	Difficulty Level	Credit	
<b>Topics of Science (30060)</b>	<b>1.0</b>	<b>1.0</b>	
<p><b>Course Description</b>            This course focuses on mastery of the PA Academic Standards for Science and Technology. Students will investigate the Nature of Science by building eight projects throughout the year. These projects will focus on the engineering process, following directions/procedures and properly using the required tools for each build. An introduction to each project provides the connection between the project at hand and the physical sciences (astronomy, chemistry, geology, meteorology, physics, etc.) involved. This course includes a considerable number of hands-on inquiries and will include the explorations and applications of science in our world.</p>			

Course Name and Number	Difficulty Level	Credit	 ½ Credit
<b>Astronomy (3051X)</b>	<b>1.2</b>	<b>0.5</b>	
<p><b>Course Description</b>            This course is an emphasis on Earth and Space Science, with predominate focus on Astronomy. Content will be delivered, not only on the physical nature of the exosphere, space, and the universe beyond, but also on Man's past, present, and future in space. Students in this class will also use the planetarium to learn the star field of our Northern Hemisphere circumpolar and seasonal skies. This course will have special value for students considering a career in astronomy or those who have an interest in these topics. It would also be a great introductory course for anyone looking to take AP Environmental Science.</p> <p><b>This course will only be offered during the spring semester. This course is designed for 11<sup>th</sup> and 12<sup>th</sup> grade students.</b></p>			

Course Name and Number	Difficulty Level	Credit	 ½ Credit
<b>Genetics (3072X)</b>	<b>1.2</b>	<b>0.5</b>	
<p><b>Course Description</b>            This course continues the study of biology by diving deeper into the subtopic of genetics (the study of genes, genetic variation, and heredity in organisms). Topics to be covered in this course include inheritance patterns, Mendelian genetics, gene structure &amp; function, genetic abnormalities, the Human Genome Project, DNA technology, and the</p>			

future of genetics in medicine, agriculture and one's life. Coursework will draw on learning from prior biology and chemistry courses and will emphasize problem solving, critical thinking and mathematical analysis (statistics & probability). This course should be of particular interest to students looking toward biological, medical or health-related careers or anyone planning on taking AP Biology.


*Prerequisites: Biology I and Chemistry I*

Course Name and Number	Difficulty Level	Credit	 ½ Credit
<b>Geology (3071X)</b>	<b>1.2</b>	<b>0.5</b>	

**Course Description**

This course is designed for those students with an interest in the nature and history of the solid Earth (rocks and minerals, geologic time, and fossils). Students will investigate the forces that build up the Earth (volcanoes, earthquakes, and continental drift) and the forces that tear down the Earth (water, wind, and glaciers). Important aspects of this course also include the implications of the human impact on the Geosphere. This would be a great introductory course for anyone looking to improve their Earth Science skills or take AP Environmental Science.


**This course will only be offered during the fall semester.** *This course is designed for 11<sup>th</sup> and 12<sup>th</sup> grade students.*

Course Name and Number	Difficulty Level	Credit	 ½ Credit
<b>Meteorology (3052X)</b>	<b>1.2</b>	<b>0.5</b>	

**Course Description**

This course is an emphasis on Earth's Atmospheric Sciences, including weather and climate. Content will be delivered, not only on the physical nature of the atmosphere and oceans, but also on Man's impact on the air and water environment. This course will have special value for students considering a career in meteorology or those who simply have an interest in these topics. It would also be a great introductory course for anyone looking to take AP Environmental Science.


**This course will only be offered during the fall semester.** *This course is designed for 11<sup>th</sup> and 12<sup>th</sup> grade students.*


Course Name and Number	Difficulty Level	Credit	 ½ Credit
<b>Oceanography (3011X)</b>	<b>1.2</b>	<b>0.5</b>	


**Course Description**

Oceanography is a multidisciplinary science that studies the physical, chemical, and biological systems of our world's ocean. Course topics include ocean floor geology, tides and currents, coastlines, water chemistry, marine ecology, and the ocean as a resource. Students will study natural and man-made influences that affect our world's ocean resources. Special emphasis will be placed on marine biology as we replicate and maintain natural systems in our school's aquariums. Students will participate in fish breeding, fish rearing, and coral propagation studies.


*Prerequisites: Biology I and Chemistry I*


Course Name and Number	Difficulty Level	Credit	
<b>AP Biology (30180)</b>	<b>1.45</b>	<b>1.0</b>	
<p><b>Course Description</b>  AP Biology is an advanced course designed to offer students a solid foundation in introductory college-level biology. The course is structured around four big ideas and seven science practices that will give students the essential knowledge and skills to be successful in college-level life science courses. The process of inquiry and developing critical thinking skills will be an important focus, as well as the use of statistics in analyzing laboratory data. Many topics will build on previous knowledge (Biochemistry, Cellular Energy, Cell Reproduction, Genetics, and Ecology) while other topics will be introduced (Cellular Communication, Cell Cycle Regulation, Regulation of Gene Expression, Population Genetics, Gene Linkage, and Phylogeny). Successful students should be able to devote significant time outside of class for reading and practice.</p> <p><b>Students enrolled in this course are expected to take the Advanced Placement Examination.</b></p> <p><i>Prerequisites: Biology I and Chemistry I</i></p>			

Course Name and Number	Difficulty Level	Credit	
<b>AP Chemistry (30370)</b>	<b>1.45</b>	<b>2.0</b>	
<p><b>Course Description</b>  AP Chemistry is a second-year course designed to meet the needs of our advanced students, especially those considering the fields of science or medicine. The course is designed to be the equivalent of a full-year college general chemistry sequence. Challenging theoretical concepts regarding atomic theory, chemical reactions and energy transformation will be explored in both the classroom and laboratory settings. Extensive analytic lab work and calculations will be expected during the completion of required AP Chemistry lab investigations. Students are required to write multiple formal lab reports each marking period, making this a writing intensive course.</p> <p><b>Students enrolled in this course are expected to take the Advanced Placement Examination.</b></p> <p><i>Prerequisites: Algebra 2 and either Chemistry I Honors or Chemistry I with teacher recommendation</i></p>			

Course Name and Number	Difficulty Level	Credit	
<b>AP Environmental Science (30560)</b>	<b>1.45</b>	<b>1.0</b>	
<p><b>Course Description</b>  This advanced earth science course provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems, both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Common themes of this course include (1) science is a process, (2) energy conversions underline all ecological processes, (3) the Earth itself is one interconnected system, (4) humans alter natural systems, (5) environmental problems have a cultural and social context, and (6) human survival depends on developing practices that will achieve sustainable systems.</p> <p><b>Students enrolled in this course are expected to take the Advanced Placement Examination.</b></p> <p><i>Prerequisites: Biology I, Chemistry I, and Algebra 2.</i></p>			



Course Name and Number	Difficulty Level	Credit	
<b>AP Physics I (30490)</b>	<b>1.45</b>	<b>1.0</b>	
<p><b>Course Description</b>  This advanced physics course studies the main principles of physics with a strong emphasis on problem solving. Geometry, advanced algebra and trigonometry will be used daily to help students gain a deeper understanding of our physical universe. Topics include kinematics, dynamics, energy, momentum, circular motion &amp; gravitation, torque and rotational dynamics, and simple harmonic motion. The critical thinking skills and laboratory experiences in this course will prepare students for the AP Physics I test offered in May of each year. Students planning careers in mathematics, science, engineering or medicine will benefit from taking this course.</p> <p><i>*Successful students devote a large amount of time independently working on problem sets outside of class.</i></p> <p><b>Students enrolled in this course are expected to take the Advanced Placement Examination.</b></p> <p><i>Co-requisite: Trigonometry or Pre-Calculus with Trigonometry Honors</i></p>			

Course Name and Number	Difficulty Level	Credit	
<b>AP Physics II (30550)</b>	<b>1.45</b>	<b>1.0</b>	
<p><b>Course Description</b>  Students will continue their study of physics as they explore fluids, thermodynamics, electricity &amp; magnetism, optics, quantum physics, and atomic &amp; nuclear physics. The critical thinking skills and laboratory experiences in this course will prepare students for the AP Physics II test offered in May of each year. Students planning careers in mathematics, science, engineering or medicine will benefit from taking this course.</p> <p><i>*Successful students devote a large amount of time independently working on problem sets outside of class.</i></p> <p><b>Students enrolled in this course are expected to take the Advanced Placement Examination.</b></p> <p><i>Prerequisite: AP Physics I</i></p>			


## Course Requirements





### World Languages Department



#### World Language Department






All World Language courses are sequential and elective in nature. The student enters the program with a Level I course. Upon completion of Level I, the student should consult with the instructor in order to determine proper placement for the second level course. The student who wishes to take courses at Levels III or IV must successfully complete Level II Academic and obtain the approval of the Level II instructor.

#### Course Descriptions: WORLD LANGUAGES

Course Name and Number	Difficulty Level	Credit	
<b>German I (50100)</b>	<b>1.2</b>	<b>1.0</b>	
<p><b>Course Description</b>  German I is a course in which students are introduced to the target language through a whole language approach. All four-language skills - listening, speaking, reading, and writing - are presented to ensure balanced development. The student will learn the language through authentic cultural and sociological contexts. Grammatical items are presented in meaningful context so that grammar is not an end to itself, but rather a vehicle through which students can discuss freely a given topic in the language.</p>			

Course Name and Number	Difficulty Level	Credit	
<b>German II (50110)</b>	<b>1.2</b>	<b>1.0</b>	
<b>Course Description</b> German II is a continuation of the whole language method. The four language proficiencies of listening, speaking, reading and writing are reinforced through contexts relating to the students' actual experience and those of students in German speaking countries. Students are encouraged to be risk takers and use the target language in a variety of individual paired and group activities.			
Course Name and Number	Difficulty Level	Credit	
<b>German III H (50130)</b>	<b>1.4</b>	<b>1.0</b>	
<b>Course Description</b> German III H is a course in which the students are encouraged to strive for greater proficiency and accuracy in the four skill areas. An emphasis is placed on fine tuning listening, reading, writing, pronunciation and grammar skills. Text and literature readings will be followed by content discussions and evaluations in the target language. A greater emphasis in this level is placed on the ability to recognize and apply grammar rules and patterns with reinforcement through written and oral practice. Students are encouraged to use the target language as much as possible.			
Course Name and Number	Difficulty Level	Credit	
<b>German IV H (50140)</b>	<b>1.4</b>	<b>1.0</b>	
<b>Course Description</b> German IV H is a course in which students continue to develop proficiency in the four language skill areas. Students reinforce their knowledge of the target language through contexts relating to contemporary issues affecting their lives and those of the peoples of German speaking countries. Students are encouraged to use the target language almost exclusively. Representative works of German literature are presented with discussion and evaluation in the target language.			
Course Name and Number	Difficulty Level	Credit	
<b>Spanish I (50200)</b>	<b>1.2</b>	<b>1.0</b>	
<b>Course Description</b> Spanish I is an introduction to the language in which speaking and listening language skills are emphasized. Grammar basics, lists of common vocabulary and useful expressions are learned, and Hispanic cultural characteristics will be a focus of the course as well. Oral and written practice and evaluations will be used, including student oral presentations to the class.			

Course Name and Number	Difficulty Level	Credit	
<b>Spanish II (50210)</b>	<b>1.2</b>	<b>1.0</b>	
<b>Course Description</b> Spanish II continues the study of the language with an emphasis on the development of the four language skills. Students will undertake an in-depth study of the grammatical structures and idiomatic expressions found in the language. Students will learn a variety of verbs in the present and past as well as commands.			
Course Name and Number	Difficulty Level	Credit	
<b>Spanish III H (50230)</b>	<b>1.4</b>	<b>1.0</b>	
<b>Course Description</b> At the third level, past grammatical concepts will be reviewed. By the completion of level 3, students will have studied all major verb forms and tenses. Students will read and react to Spanish literature and create short skits and dialogues as well. The student is expected to complete assignments in a self-disciplined, self-motivated manner.			

Course Name and Number	Difficulty Level	Credit	
<b>Spanish IV H (50240)</b>	<b>1.4</b>	<b>1.0</b>	
<b>Course Description</b> This is a course wherein the student will refine and review, where necessary, the previously learned grammatical and idiomatic concepts. Contemporary and historical aspects of Spanish culture will be examined. Students will read short stories and novels by major Spanish authors. Spanish artists and major works will be studied as well. Cultural units include Spanish foods and housing.			
Course Name and Number	Difficulty Level	Credit	
<b>Latin I (50410)</b>	<b>1.2</b>	<b>1.0</b>	
<b>Course Description</b> Latin I introduces the basic grammatical structure of the Latin language through a reading-based approach using Ecce Romani I. The course emphasizes the acquisition of fundamental vocabulary and its English derivatives, the cultural and mythological heritage of Rome, and the early history of the Roman Republic.			
Course Name and Number	Difficulty Level	Credit	
<b>Latin II (50420)</b>	<b>1.2</b>	<b>1.0</b>	
<b>Course Description</b> Latin II completes the grammatical instruction necessary to provide students with a thorough understanding of the principal tenets of the language. This will include, most importantly, indirect statement and the subjunctive mood. Students will use Ecce Romani II, which will continue the reading-based approach to learning Latin, and will continue the cultural and historical studies started in Ecce Romani I.			
Course Name and Number	Difficulty Level	Credit	
<b>Latin III H (50430)</b>	<b>1.4</b>	<b>1.0</b>	
<b>Course Description</b> Latin III is a thorough study of the events surrounding the downfall of the Roman Republic through the writings of the historians and political figures of the period. Authors include Cicero, Caesar and Augustus. The course also introduces students to the rudiments of Roman Poetry through Catullus, Martial and Ovid.			
Course Name and Number	Difficulty Level	Credit	
<b>AP Latin IV (50450)</b>	<b>1.45</b>	<b>1.0</b>	
<b>Course Description</b> The foundation of AP Latin 4 is the reading two of the Roman world's most important authors: Julius Caesar and the poet Vergil. We will follow the course requirements for the AP Latin syllabus, which prescribes a challenging but intellectually stimulating study of these two authors in preparation for the AP Latin exam in May. This will likely be the only opportunity in your academic career for you to study these giants of western culture, whose works and actions have had a lasting impact on literature through the modern age. <b>Students enrolled in this course are expected to take the Advanced Placement Examination.</b>			
Course Name and Number	Difficulty Level	Credit	NCAA
<b>English Language Learners (01300)</b>	<b>1.2</b>	<b>1.0</b>	
<b>Course Description</b> The English as a second language program (ELL) provides English language learners instruction and support in reading, writing, speaking and listening. The amount of services students receive is contingent upon their skill levels in the above-mentioned areas. Services not only include classroom instruction but also may include assessment, interpreter and tutoring services where appropriate.			

# Course Requirements

## Career & Technical Education Department

As students' progress through high school, it is important to do so with a goal of planning for a successful career. Most careers today require technical training. Williamsport Area High School students can prepare for college or career with Career & Technical Education (CTE) programs. CTE programs are approved by the Pennsylvania Department of Education.

*NOTE:* In cases where enrollments are limited in CTE courses, preference will be given to students who have selected a related occupation on their career objective.

<b>FINANCIAL LITERACY &amp; CAREER PATHWAYS</b>		
COURSE NAME	D.F.	CREDIT
<b>Career Pathways/ Financial Literacy (9110X)</b>	<b>1.0</b>	<b>0.50</b>
<p>This course is designed to provide 9th grade students with tools to maximize their success in high school. Half of the course will focus on Career Pathways, and the second half will focus on developing a student's understanding of financial literacy.</p> <p><b>Career Pathways</b> Students will explore career concepts and perform personal inventory assessments, detailed career explorations, investigate WAHS Pathways opportunities, CTE programs of study, and course selections. A second unit will provide students with best practice strategies for high school success and lifelong learning. The curriculum will be presented with a focus on information technology. Students will utilize and learn a variety of software applications, Internet tools, and Internet resources, increasing their skillset for future success.</p> <p><b>Financial Literacy</b> This course takes the essential principles of personal finance and makes them accessible and applicable to today's students. All students will develop skills and strategies that promote personal and financial responsibility. Units will focus on areas such as money management, spending and credit, protecting your credit, debt management, and saving. The course makes use of a number of resources aligned with National and Pennsylvania standards. The course will culminate in an activity that synthesizes the student's financial awareness, and personal career planning.</p>		
COURSE NAME	D.F.	CREDIT
<b>CTE Program Leadership (cr- .50 9282X, cr 1- 92830, cr 2- 92840)</b>	<b>1.2</b>	<b>0.50, 1.0, 2.0</b>
<p>This course will allow a Level 3 Student, who is recommended by the teacher and is in good academic, behavior, and attendance standing, to assist the CTE instructor with curriculum. This student would assist students with projects, and hone their competencies. These students would be graded by an employability rubric that assesses them on showing up to work, following expectations, and completing tasks in a timely, safe, and proper manner. This course would bring their CTE coursework to life in many different ways by continuing to learn and assist others in the learning process as well. These students are not to be utilized like aides. They are to be embedded in the instructional process and work on industry leadership skills.</p> <p><b>Prerequisite: Recommendation only by program instructor</b></p>		
COURSE NAME	D.F.	CREDIT
<b>Peer Leadership Experience (92860)</b>	<b>1.2</b>	<b>1.0</b>
<p>Students considering careers in the Human Services Pathway, especially in counseling, health, education, and personal care, may apply for enrollment as a peer mentor within the WASD integrated unified arts classes. In these classes, students with disabilities will be offered physical education, music, art, and/or drama experiences while being able to integrate and enjoy age appropriate and developmentally appropriate skill-related unit activities alongside of their typically developing peers. Peer mentors will be asked to assist a peer with a disability throughout the duration of their elective class. Regular education students enrolled in this course will gain direct instruction on best practices in leadership and in working with students with disabilities, as well as engage in activities from a wide variety of psychomotor, social, and cognitive experiences. Peer Mentors will be assessed and graded on their achievement of the Career Education and Work Standards.</p>		

## AUTOCAD

COURSE NAME	D.F.	CREDIT	<b>Penn College</b> <b>NOW</b> <small>DUAL ENROLLMENT</small>
<b>PCT* AutoCAD (91300)</b>	<b>1.4</b>	<b>1.0</b>	
<p>This course is taught in accordance with Pennsylvania College of Technology's <i>CAD 120: AutoCAD-Comprehensive</i>. Dual enrolled students can receive three (3) credit hours upon completion of this class and subsequent enrollment at Pennsylvania College of Technology. This covers comprehensive application of 2D and 3D techniques using AutoCAD® software. Topics include the generation, editing, and analysis of geometry in alignment with industry standards with an emphasis on productivity.</p> <p><i>*As a dual enrollment course, students must adhere to all Penn College NOW course expectations and demonstrate proficiency in reading.</i></p> <p><i>** Course only available if there is an instructor available to teach</i></p>			

## ACCOUNTING PROGRAM COMPLETION

<b>10<sup>th</sup> Grade</b>	<b>Accounting I</b>
<b>11<sup>th</sup> Grade</b>	<b>Advanced Accounting</b>
<b>12<sup>th</sup> Grade</b>	<b>Automated Accounting</b>

COURSE NAME	D.F.	CREDIT
<b>Accounting I (40300)</b>	<b>1.2</b>	<b>1.0</b>
<p>Accounting is designed to give students a basic introduction to the business world so they can understand the daily financial activities completed by businesses. By following the steps of the accounting cycle, students will learn to analyze business transactions, record them on business forms, and prepare financial statements. Students will also complete an Accounting simulation. Accounting is a beneficial course for all students, but particularly so for students interested in opening their own business or majoring in any area of business --management, computer programming, business administration, marketing, law or accounting.</p> <p><i>Recommended grades: 10th - 12th.</i></p>		
<b>Advanced Accounting (40360)</b>	<b>1.3</b>	<b>1.0</b>
<p>Students will broaden their accounting knowledge by focusing on accounting processes for a merchandising business organized as a corporation. This course will concentrate on accounting for purchases, sales, cash payments and receipts, payroll, and uncollectible accounts receivable. In addition, students will prepare adjusting and closing entries, trial balance, and financial statements for a corporation. An accounting simulation, as well as completing coursework using online accounting forms, will bring real world application to the course.</p> <p><i>Recommended grades: 11th and 12th. Prerequisite: Successful completion of Accounting I</i></p>		
<b>Automated Accounting (40001)</b>	<b>1.4</b>	<b>1.0</b>
<p>This third year accounting course prepares students to apply the knowledge gained from Accounting I and Advanced Accounting in an automated system using QuickBooks Online. Students will be guided through QuickBooks Online to learn how to set up a business's accounting system, resolve accounting issues, and generate valuable accounting reports. In addition to learning one of the most widely-used accounting programs in the business world, students may also have the opportunity to become a QuickBooks Certified User (QBCU) by taking an official Certiport exam. Passing this exam earns students a certification that validates skills necessary for an entry-level accounting position.</p> <p><i>Recommended Grade: 12th</i></p> <p><i>Prerequisite: successful completion of Accounting I, Advanced Accounting, and Instructor recommendation.</i></p>		

## AUTOMOTIVE PROGRAM COMPLETION

<b>10<sup>th</sup> Grade</b>	<b>Level 1 Automotive Technology</b>
<b>11<sup>th</sup> Grade</b>	<b>Level 2 Automotive Technology</b>
<b>12<sup>th</sup> Grade</b>	<b>Level 3 Automotive Technology</b>

COURSE NAME	D.F.	CREDIT
<b>L1 Automotive Technology (91550)</b>	<b>1.2</b>	<b>2.0</b>
<p>This course is designed for students planning to pursue a career in the automotive service industry. Students will first learn about shop safety and how to maintain a safe work environment. Emphasis will be placed on the understanding of a vehicle's brake system, and will include disassembly, cleaning, inspection, measurement, reassembly, and diagnosis. Students will learn the correct use of service information, basic tools, equipment and other industry standards. Along with this, students will also learn how to service and maintain their own automobile including routine maintenance such as oil changes, fluid inspection and top off, tire inspection, tire rotation, and chassis lubrication. Completion of this course will provide students with the prerequisite knowledge and skills for the next level of more in-depth coverage in Level 2 Automotive Technology (91590).</p> <p><i>Recommended grades: 10th</i></p>		

COURSE NAME	D.F.	CREDIT
<b>L2 Automotive Technology (91560)</b>	<b>1.3</b>	<b>2.0</b>
<p>This course is designed for students interested in a career in automotive technology. Instruction will provide students with the knowledge and skills needed to repair and maintain internal combustion engines on vehicles and mobile equipment. Instruction also includes the use of technical manuals, state inspection code, and aspects of hydraulics, electricity, and fluid power.</p> <p><i>Prerequisite(s): Level 1 Automotive Technology</i></p>		

COURSE NAME	D.F.	CREDIT
<b>L3 Automotive Technology (91570)</b>	<b>1.4</b>	<b>2.0</b>
<p>This is an advanced level course. Students in this class will develop solid mechanical, technical, and systems diagnostics skills. Topics covered will be live hands on activities dealing with Electronics, Advanced Electronics, and Engine Performance. Vehicle computer systems and how they relate / interact with the mechanical parts of the engine will be covered in the course as well. Accessing vehicle repair, diagnostics information as well as Technical Service Bulletins (TSB) from an Internet based site will be applied in the lab setting. Electricity/Electronics, Engine Performance as well as more advanced Brakes, Steering and Suspension will be taught over the course of the year. Students will have the opportunity to take the student Electricity/Electronics and Engine Performance student ASE test at the end of the course.</p> <p>Students will have the opportunity to acquire their Pennsylvania State Safety Inspection License as well as their Pennsylvania Emissions License.</p> <p>Emphasis of this course will be using skills in a practical, real world setting. Students will be put into a variety of roles that will prepare them for the work world. Leadership, working in small groups, taking charge and following the job until completed will be stressed.</p> <p>Specialized skill will be honed to accommodate student specific interest in the transportation field. It will aid students in the decision making process of either going into the field or continuing their career objective in a postsecondary technical school.</p> <p><i>Prerequisite(s): Level 2 Automotive Technology</i></p>		

## BIOTECHNOLOGY PROGRAM COMPLETION

<b>10<sup>th</sup> Grade</b>	<b>L1 Biotechnology</b>
<b>11<sup>th</sup> Grade</b>	<b>L2 Biotechnology</b>
<b>12<sup>th</sup> Grade</b>	<b>L3 Biotechnology</b>

COURSE NAME	D.F.	CREDIT
<b>L1 Biotechnology (91610)</b>	<b>1.2</b>	<b>2.0</b>

### Course Description

This course is the first of three in the Biotechnology Career and Technology Education program. The course focuses on the application of the biological sciences such as cell biology, microbiology, biochemistry, and genetics in preparation of new and enhanced medical, agricultural, environmental, and industrial products including the commercial exploitation of microbes, plants and animals. Students in this course will experience the procedures, methods, and equipment common to most biotechnology laboratories. Students will use state of the art equipment to learn the principles of scientific investigation as applied to medicine, forensics, agriculture, genetic engineering and environmental health.

This program prepares students for a wide range of science-based occupations including biochemist, biomedical engineering, epidemiologist, food scientist, forensic scientist, geneticist, medical laboratory scientist, microbiologist, pharmacist, and veterinarian along with numerous healthcare related careers.

**Topics covered at this introductory level include an overview of the biotechnology industry, laboratory safety, basic biology & chemistry laboratory skills, microbiology & cell cultures, and epidemiology.**

*Recommended Grades: 10<sup>th</sup>*

COURSE NAME	D.F.	CREDIT
<b>L2 Biotechnology (91620)</b>	<b>1.3</b>	<b>2.0</b>

### Course Description

This course is the second of three in the Biotechnology Career and Technology Education program. Students in this course will continue to refine their biotechnology laboratory skills and utilize the protocols learned in the previous course to complete more advanced experimental studies.

**Topics covered in this course include a study of DNA structure & analysis via gel electrophoresis and plasmid mapping, bacterial transformation & plasmid purification, polymerase chain reaction (PCR) and forensic science. Additionally, students will begin to explore and debate the ethical implications of biotechnology in the 21<sup>st</sup> century.**

*Prerequisite(s): L1 Biotechnology*

COURSE NAME	D.F.	CREDIT
<b>L3 Biotechnology (91630)</b>	<b>1.4</b>	<b>2.0</b>

### Course Description

This course is the third of three in the Biotechnology Career and Technology Education program. Students in this course will apply their biotechnology laboratory skills and utilize the protocols learned in the previous courses to complete more advanced experiments in preparation for their NOCTI exam.

**Topics covered in this course include a study of protein structure & analysis, OSHA certification, immunology, plant biotechnology and a senior project involving hydroponics and aquaponics.**

*Prerequisite(s): L2 Biotechnology*

## BUSINESS ADMINISTRATION PROGRAM COMPLETION

<b>10<sup>th</sup> Grade</b>	<b>Computer Applications I &amp; II</b> <b>Accounting I</b> <b>Intro to Business (S)</b>
<b>11<sup>th</sup> Grade</b>	<b>Intro to Business (S)</b> <b>Computer Applications I (S1), II (S2)</b> <b>Business Law (S)/Business Communications (S)/Personal Finance (S)</b> <b>Accounting I or Advanced Accounting, Business Management I</b>
<b>12<sup>th</sup> Grade</b>	<b>Computer Applications I (S1), II (S2)</b> <b>Business Law (S)/Business Communications (S)/ Personal Finance (S)</b> <b>Advanced Accounting or Automated Accounting, Business Management I or II</b>

\*ACCOUNTING COURSES ARE DESCRIBED ABOVE

COURSE NAME	D.F.	CREDIT
<b>Computer Applications I (40071)</b>	<b>1.1</b>	<b>.50</b>
<p>Computer Applications I is a hands-on course that teaches students the power (and tricks) to Microsoft Word, Excel and PowerPoint. This is a “learn by doing” experience. Students will work on exercises and projects to master the tools of the applications in the lab. These experiences are designed to teach students competencies needed to achieve MOS (Microsoft Office Specialist) Certification. These tools will help you in many other classes and in life!  <i>Recommended Grades: 9<sup>th</sup>- 12<sup>th</sup></i></p>		
COURSE NAME	D.F.	CREDIT
<b>Computer Applications II (40072)</b>	<b>1.1</b>	<b>.50</b>
<p><i>Computer Applications II</i> is a half-year course that will compliment <i>Computer Applications I</i>. The course will continue with more advanced Microsoft Office exploration. Students may also learn other programs including Access and Publisher to become skilled at using a database and completing desktop publishing activities. These experiences are designed to teach students competencies needed to achieve MOS (Microsoft Office Specialist) Certification. Additionally, students may create their own movies using the program Movie Maker.  <i>Recommended Grades: 9<sup>th</sup>-12<sup>th</sup></i>  <i>Prerequisite(s): Successful completion of Computer Applications</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Intro to Business (4009X)</b>	<b>1.0</b>	<b>.50</b>
<p>Students taking this course will receive a comprehensive survey of business. This is a great introductory course that will prepare students for the workplace and is the foundation to additional business based curriculum. Students study the economic environment, business structures, goods and services, marketing, social media and e-business. Contemporary topics highlighted within these areas include ethics, small business concerns and entrepreneurship, global issues, green and socially responsible business, and sustainability.  <i>Grades: 10-12<sup>th</sup> Only</i></p>		



COURSE NAME	D.F.	CREDIT
<b>Business Law (4061X)</b>	<b>1.0</b>	<b>.50</b>
<p>This half-year course will explore the concepts of contractual agreement in the law. Topics will include offer and acceptance of contracts, genuine agreement in a contract, contractual capacity, sales contracts, consumer protection, employment laws, banking laws (commercial paper) and bankruptcy laws. Hands on projects and case studies are conducted throughout the semester. Students can also participate in a field trip to the courthouse to see a real live court case in action. Any student who wishes to learn about contractual obligations in business should schedule this course. In addition, this course is also invaluable for those wishing to major in law enforcement, legal studies or business at the post-secondary level.  <i>Grades: 10-12<sup>th</sup> Only</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Personal Finance (4010X)</b>	<b>1.1</b>	<b>.50</b>
<p><i>Personal Finance</i> explores personal money management. As we recover from the worst recession since the Great Depression, it is important to understand the fundamental concepts of finances and how we can protect our money if another crisis were to occur. Every student would benefit from the knowledge learned in this class. Topics explored during this half-year course are: (1) making money, (2) living on your own, (3) saving money, (4) banking, (5) credit &amp; debit cards, (6) budgeting, (7) creditworthiness, (8) saving for college, (9) buying a car, (10) renting/buying a home, (11) employment benefits, (12) marriage finances, (13) retirement income.  <i>Grades: 11-12<sup>th</sup> Only</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Entrepreneurship (40002X)</b>	<b>1.3</b>	<b>.50</b>
<p>Entrepreneurship is available to juniors and seniors with an interest in starting/owning their own business. Essential elements in the course will include developing a unique business idea and drafting a complete business plan, to include a product/service/plan, management and organization plan, marketing plan, and a financial plan.  <i>Prerequisite(s): Introduction to Business, Accounting I</i>  <i>Grades: 11-12<sup>th</sup> Only</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Computer Programming I (41610)</b>	<b>1.2</b>	<b>1.0</b>
<p>Computer Programming I is an introduction to computer programming for the beginner. The course includes how computers function, how they are controlled, their applications, and how they are used in problem solving. Topics include hardware, software, pseudo-code, and structured programming using a microcomputer.  <b>NOTE: This course should not be elected in place of a mathematics course.</b>  <i>Prerequisite(s): Algebra II</i>  <i>Grades: 10-12<sup>th</sup> Only</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Business Management I (40430)</b>	<b>1.2</b>	<b>1.0</b>
<p>This course introduces students to business management responsibilities. The course begins with a review of business structures and the business environment. Concepts related to management such as philosophies, leadership, effectiveness, decision-making, planning, organizing, implementing, controlling, social and ethical issues, and the international environment are studied. Students will also demonstrate and utilize business communications skills such as technical writing, formal presentations, business correspondence, and meeting management.  <i>Grades: 11-12<sup>th</sup> Only</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Business Management II (40440)</b>	<b>1.3</b>	<b>1.0</b>
<p>This course continues the study of business management. Using the concepts learned from Business Management I as a foundation students explore specific management areas such as financial management, production and marketing management, and human resources management. Real world case studies of business management mistakes and successes are also explored. Students will also demonstrate and utilize business skills such as technical writing, formal presentations, inventory control, research &amp; analysis, and data &amp; spreadsheet preparation.  <i>Prerequisites(s): successful completion of Business Management I</i> <i>Grades: 12<sup>th</sup> Only</i></p>		

## COMMERCIAL ART PROGRAM COMPLETION

<b>10<sup>th</sup> Grade</b>	<b>Intro to Graphic &amp; Digital Design (S) L1 Commercial Art</b>
<b>11<sup>th</sup> Grade</b>	<b>Intro to Graphic &amp; Digital Design (S) L2 Commercial Art/Business Management I</b>
<b>12<sup>th</sup> Grade</b>	<b>Intro to Graphic &amp; Digital Design (S) L3 Commercial Art/Business Management I</b>

COURSE NAME	D.F.	CREDIT
<b>Intro to Graphic &amp; Digital Design (9194X)</b>	<b>1.0</b>	<b>.50</b>
<p>Emphasis will be placed on learning the elements and principles of design, basic drawing skills, color, typography and creativity. Students will be introduced to the basic components of Adobe's graphic design software <i>Recommended grades: 9<sup>th</sup></i></p>		
COURSE NAME	D.F.	CREDIT
<b>L1 Commercial Art (91950)</b>	<b>1.2</b>	<b>2.0</b>
<p>Emphasis will be placed on learning the elements and principles of design, lettering, basic drawing skills, color, perspective, typography and creativity. Students will be introduced to the basic components of Adobe's graphic design software. <i>Recommended grades: 10<sup>th</sup></i></p>		
COURSE NAME	D.F.	CREDIT
<b>L2 Commercial Art (91960)</b>	<b>1.3</b>	<b>2.0</b>
<p>Design skills are used in the areas of advertising and design, illustration, page layout, computer graphics and digital photography. Students will continue to enhance drawing skills and be introduced to various drawing mediums. <i>Prerequisite(s): Level 1 Commercial Art. 3 Credits</i></p>		
COURSE NAME	D.F.	CREDIT
<b>L3 Commercial Art/PCT Now Art 145 (91980)</b>	<b>1.4</b>	<b>2.0</b>
<p>In addition to continuing the study of design and enhancing learned skills, students will study digital photography, color separation, digital file preparation and output, and portfolio preparation. Students will learn intermediate and advanced components of Adobe's graphic design software. Students will take the PA NOCTI Exam, 6932, at the end of their senior year where they may earn state certification that qualifies for college credit at participating Pennsylvania colleges. Students may further have opportunities to participate in job shadowing experiences and the school co-op program. <i>Prerequisite(s): Level 2 Commercial Art. 3 Credits</i></p> <p><b>*Qualifying students may also earn college credit for the Pennsylvania College of Technology's ART 145: History of Graphic Design course. This course studies the history of graphic design and of the ways in which the past will help students better understand current and future design applications. Emphasis on research of different design movements, such as the Victorian and Art Nouveau Graphics, Postmodern Design, the Arts and Craft Movement, and the computer graphics revolution.</b></p> <p><b>*As a dual enrollment course, students must adhere to all Penn College NOW course expectations and demonstrate proficiency in reading.</b></p>		



## COMPUTER INFORMATION TECHNOLOGY PROGRAM

10 <sup>th</sup> Grade	<b>L1 CIT- Computer Repair (Computer Information Technology)</b>
11 <sup>th</sup> Grade	<b>L2 CIT- Networking- Intro to Networking</b>
12 <sup>th</sup> Grade	<b>L3 CIT- Networking II</b>

COURSE NAME	D.F.	CREDIT
<b>L1 CIT- Computer Repair (92950)</b>	<b>1.2</b>	<b>2.0</b>
<p>This course is designed to give students the skills needed to troubleshoot, repair, upgrade, and maintain computer systems. Students who take this course will develop a solid base foundation for a career within the Information Technology industry. Students learn about all aspects computer components such as installation, configuration, maintenance, and troubleshooting. Networking fundamentals, laptop hardware, printer configuration and maintenance, operating system installation and configuration, security methods, mobile devices, and troubleshooting methods are also covered in this level 1 course. Students taking this course will have the opportunity to prepare for and possibly take the CompTIA A+ certification exam.</p> <p><i>Recommended Grades: 10<sup>th</sup>-12<sup>th</sup></i></p>		
COURSE NAME	D.F.	CREDIT
<b>L2- CIT- Networking (92920)</b>	<b>1.3</b>	<b>2.0</b>
<p>This course is designed to give students the skills needed to troubleshoot, repair, upgrade, and maintain network systems. <i>This course focuses on the fundamental concepts of operation, installation, and configuration of the hardware and operating system software for computer networks.</i> Network topologies, protocols, cabling systems, and server operating system software installation and service configuration are covered, with an emphasis on entry-level skills for network professionals. Students taking this course will have the opportunity to prepare for and possibly take the CompTIA Network+ certification exam. (4 Credits)</p> <p><i>Prerequisite(s): Successful completion of L1 CIT – Computer Repair</i></p> <p><i>Recommended Grades: 11<sup>th</sup>-12<sup>th</sup></i></p>		
COURSE NAME	D.F.	CREDIT
<b>L3 CIT – Networking II (92970)</b>	<b>1.4</b>	<b>2.0</b>
<p>This course is designed to develop, strengthen and extend the computer repair and networking skills students acquired in the L1 and L2 Computer Information Technology courses. The first two semesters of this course will focus on more in depth networking skills and concepts, which include, but are not limited to, server management, network security, and WAN technologies. The last two semesters of this course focus on industry certification preparation and project based learning opportunities such as job shadowing, internship, employment or community service.</p> <p><i>Prerequisite(s): Successful completion of L2 CIT – Networking</i></p> <p><i>Recommended Grades: 12<sup>th</sup></i></p>		

## CONSTRUCTION TRADES PROGRAM COMPLETION (CIP 52.0701)

<b>10<sup>th</sup> Grade</b>	<b>PCT L1 Construction Trades</b>
<b>11<sup>th</sup> Grade</b>	<b>L2 Construction Trades/PCT AutoCad</b>
<b>12<sup>th</sup> Grade</b>	<b>L3 Construction Trades/PCT AutoCad</b>


COURSE NAME	D.F.	CREDIT	
<b>PCT L1 Construction Trades (91010)</b>	<b>1.4</b>	<b>2.0</b>	

This course is the first in a series of three in the Construction Trades Career and Technical Education program. The course will give students the opportunity to learn and master skills relevant to the standards of the construction industry. Areas covered in level 1 are hand and power tool safety, construction math, blueprint reading, site layout, block laying, concrete finishing and framing with an emphasis on rafter layout and stairs.

This course is taught in accordance with Pennsylvania College of Technology's *BCT103: Construction Hand and Power Tools*. This course is a survey of hand and power tools typically used to perform construction work. Emphasis on the development of the skills needed to effectively perform layout, measurement, cutting, fastening, and finishing operations. Study also includes maintenance of tools and equipment, safe use of hand tools, and emerging tool technology. (1 Credit)

*Recommended grades: 10<sup>th</sup>*

*\*As a dual enrollment course, students must adhere to all Penn College NOW course expectations and demonstrate proficiency in reading.*

COURSE NAME	D.F.	CREDIT	
<b>L2 Construction Trades (91040)</b>	<b>1.4</b>	<b>2.0</b>	

This course is for students enrolled in the Construction Trades CTE program and is divided into two main components: Residential Structures and Utilities and Structural Finishing. In Residential Structures, the students will learn and practice the skills and techniques used in the construction of residential homes. Floor, Wall, Ceiling, and Advanced Roof Framing along with Interior and Exterior finishing will be covered. In Utilities and Structural Finishing, the students will learn and practice the skills and techniques used for installation of utilities and finish work in residential structures. Practical hands-on experience will be gained in electrical and plumbing aspects of residential construction

*Prerequisite(s): Level 1 Construction Trades and passing of OSHA 10 Certification in L1*

**\* This course is taught in accordance with Pennsylvania College of Technology's *BCT109: Framing Principles*.** Theory and application of framing techniques in residential and light commercial construction. Emphasis on basic principles and skills used in hand and machine woodworking operations. (4 Credits)

*\*As a dual enrollment course, students must adhere to all Penn College NOW course expectations and demonstrate proficiency in reading.*

COURSE NAME	D.F.	CREDIT	
<b>L3 Construction Trades (91050)</b>	<b>1.4</b>	<b>2.0</b>	

This is an advanced level course for career and technical students enrolled in the Construction Trades program. Students will learn and practice skills in masonry, carpentry, electrical wiring and plumbing to prepare for the state competency evaluation.

*Prerequisite(s): Level 2 Construction Trades and passing of OSHA 10 Certification in L2 if not complete in L1 for some reason*

## CULINARY ARTS PROGRAM COMPLETION

<b>9<sup>th</sup> Grade</b>	<b>Intro to Culinary Arts</b>
<b>10<sup>th</sup> Grade</b>	<b>L1 Culinary Arts</b>
<b>11<sup>th</sup> Grade</b>	<b>L2 Culinary Arts</b>
<b>12<sup>th</sup> Grade</b>	<b>L3 Culinary Arts</b>

COURSE NAME	D.F.	CREDIT
<b>Intro to Culinary Arts (80100)</b>	<b>1.0</b>	<b>0.5</b>
<p>Intro to Culinary Arts is a course designed for freshman students considering participation in the CTE Culinary course of study. Students will gain basic hands-on experience in food and kitchen safety, recipes, nutrition, scaling ingredients, knife skills, pastry arts, cooking methods and service techniques.  <i>Recommended grades: 9<sup>th</sup></i></p>		
COURSE NAME	D.F.	CREDIT
<b>L1 Culinary Arts (80110)</b>	<b>1.2</b>	<b>2.0</b>
<p>Level 1 Culinary Arts is an introductory course designed for students interested in the food and hospitality industry. Students will gain hands on experience learning the skills and knowledge needed to be successful in the food and hospitality industry. Students will learn and practice basic safety and sanitation, cooking methods, service techniques, and possible employment opportunities.  <i>Recommended grades: 10<sup>th</sup></i></p>		
COURSE NAME	D.F.	CREDIT
<b>L2 Culinary Arts (80120)</b>	<b>1.3</b>	<b>2.0</b>
<p>Instruction in Level 2 Culinary Arts is designed to advance students practice in the food and hospitality industry. Based on Level 1 Culinary Arts students will continue to prepare for culinary school and or post-secondary school employment in the food and hospitality industry. Students will experience different phases of the kitchen brigade while operating the Millionaire Café and catering other events in the school. Students will prepare a career portfolio for use after graduation as well as complete an extensive management project covering all aspects of the food and hospitality industry.  <i>Prerequisite(s): Successful completion of Level 1 Culinary Arts.</i></p>		
COURSE NAME	D.F.	CREDIT
<b>L3 Culinary Arts (80130)</b>	<b>1.4</b>	<b>2.0</b>
<p>Level 3 Culinary Arts practices mastery of running a successful kitchen and dining room. Upon completion of this course students will be able to solely plan and manage their own Millionaire Café. Requirements include planning, purchasing, managing, production, service, costing, safety and sanitation. Students will also focus on a wide variety of baking techniques and methods used in the food and hospitality industry.  <i>Prerequisite(s): Successful completion of Level 2 Culinary Arts.</i></p>		

## EARLY CHILDHOOD EDUCATION PROGRAM COMPLETION

<b>10<sup>th</sup> Grade</b>	<b>L1 Early Childhood</b>
<b>11<sup>th</sup> Grade</b>	<b>L2 Early Childhood</b>
<b>12<sup>th</sup> Grade</b>	<b>L3 Early Childhood</b>

COURSE NAME	D.F.	CREDIT
<b>L1 Early Childhood Ed (804101)</b>	<b>1.2</b>	<b>1.0</b>

This is the first in a series of three-year courses for the Early Childhood Career and Technical Education program. The topics covered in this course are health and safety in the childcare setting and principles of child development and learning.

*Recommended grades: 10<sup>th</sup>*

COURSE NAME	D.F.	CREDIT
<b>L2 Early Childhood Ed (80420)</b>	<b>1.3</b>	<b>2.0</b>

This is the second in a series of three-year courses for the Early Childhood Career and Technical Education program. The topics covered in this course are advancing children's physical and intellectual development, supporting children's social and emotional development, managing a childcare program, and observing and recording children's behavior. This course also includes hands-on experiences with young children in a laboratory pre-school setting.

*Prerequisite(s): Level 1 Early Childhood Education*

COURSE NAME	D.F.	CREDIT
<b>L3 Early Childhood Ed (80430)</b>	<b>1.4</b>	<b>2.0</b>

This is the third in a series of three-year courses for the Early Childhood Career and Technical Education program. The topics covered in this course are strategies to establish productive relationships with families and maintaining a commitment to professionalism.

This course is an overview of typical growth and development of young children from birth to age eight. Cognitive, language, physical growth, gross and fine motor, emotional and social developmental milestones are the focus of this course, with a special emphasis on the implications they have for the care and education of young children. Other topics include an introduction to the basic concepts of major developmental theories; principles of learning and development; and developmentally appropriate practice. A strong focus on a family-centered approach is integrated throughout the course.

*Prerequisite(s): Level 2 Early Childhood Education*


## ENGINEERING/ROBOTICS PROGRAM COMPLETION

10 <sup>th</sup> Grade	<b>L1 Engineering &amp; Robotics</b>
11 <sup>th</sup> Grade	<b>L2 Engineering &amp; Robotics</b>
12 <sup>th</sup> Grade	<b>L3 Engineering &amp; Robotics</b>

COURSE NAME	D.F.	CREDIT
<b>L1 Engineering &amp; Robotics (91160)</b>	<b>1.2</b>	<b>0.50</b>

This course is the first of three double-period courses required for the completion of the CTE Engineering and Robotics program. This course will introduce students to a broad range of engineering technology topics such as magnetism, AC and DC circuit analysis, hydraulics, pneumatics, mechanical drive systems, ladder logic, soldering, and robotics. The fundamental skills and knowledge required in many types of careers in the electronics/electrical engineering technology fields will be discussed, including the technologies utilized in industry. Emphasis on the importance of ethical behavior and responsible attitude in the workplace is also a component of the course. **A strong background in math, science, and technical writing will increase the student's success.**

*Prerequisite(s): Successful completion of Algebra I*

COURSE NAME	D.F.	CREDIT	
<b>L2 Engineering &amp; Robotics (91170)</b>	<b>1.3</b>	<b>2.0</b>	

This course is the second of three-double period courses required for the completion of the CTE Engineering and Robotics program. This course begins where Level 1 ended. Students will delve deeper into AC and DC circuit analysis, computer circuit simulation, robotics, capacitance, inductance, DC and AC motors, pneumatics, hydraulics, motor control, PLC programming, mechanical drives, and digital electronics.

*Prerequisite(s): Successful completion of L1 Engineering and Robotics*

COURSE NAME	D.F.	CREDIT
<b>L3 Engineering &amp; Robotics (91180)</b>	<b>1.4</b>	<b>2.0</b>

This is the final double-period course required for the completion of the CTE Engineering and Robotics program. In this course, students will learn more process control, the integration of different systems, drafting skills, and project organization. Students will also work together to design and create projects that incorporate many of the skills learned throughout the 3 levels of Engineering and Robotics.

*Prerequisite(s): Successful completion of L2 Engineering and Robotics*

## HEALTH CAREERS PROGRAM COMPLETION

<b>10<sup>th</sup> Grade</b>	<b>L1 Health Professions</b>
<b>11<sup>th</sup> Grade</b>	<b>L2 Health Professions/Anatomy &amp; Physiology</b>
<b>12<sup>th</sup> Grade</b>	<b>L3 Health Professions/Anatomy &amp; Physiology</b>

COURSE NAME	D.F.	CREDIT
<b>L1 Health Professions (92060)</b>	<b>1.2</b>	<b>2.0</b>
<p>This is the first in a series of three- year courses for the Health Professions Career and Technical Education program. The topics covered in this course include: Promotion of Safety, History and Trends of Health Care, Health Care Systems, Careers in Healthcare, Personal and Professional Qualities of a Health Care Worker, Legal and Ethical Responsibilities in Health Care, Computers and Technology in Health Care, Human Growth and Development, Cultural Diversity, Nutrition and Diets, and Introduction to Infection Control. Medical Terminology will be embedded within this course as it relates to the topics covered.</p>		
COURSE NAME	D.F.	CREDIT
<b>L2 Health Professions (92070)</b>	<b>1.3</b>	<b>2.0</b>
<p>This is the second in a series of three-year courses for the Health Professions Career and Technical Education program. The topics covered in this course include: Anatomy and Physiology of the Human Body, Geriatric Care, Medical Math, Vital Signs, and First Aid and Infection Control. Medical Terminology will be embedded within this course as it relates to the topics covered. *Recognizing &amp; Reporting Child Abuse Certification and PA DHS Personal Home Care Direct Training/Adult Residential Care Licensing will be available during the course.</p> <p><i>Prerequisite: Successful completion of Level I (Intro) Health Professions</i></p>		
COURSE NAME	D.F.	CREDIT
<b>L3 Health Professions (92080)</b>	<b>1.4</b>	<b>2.0</b>
<p>This is the third in a series of three-year courses for the Health Professions Career and Technical Education program. The topics covered in this course are directly related to specific career pathways including: Dental Assistant Skills, Laboratory Assistant Skills, Medical Assistant Skills, Nurse Assistant Skills, Physical Therapy Skills, and Business and Accounting Skills. Preparing for the World of Work is also presented which includes cover letters, developing a resume, completing job application forms, job interviewing skills, determining net income and calculating/balancing a budget. *OSHA 10-Hour General Industry (Health Care) Certification and AHA Health Care Provider CPR Certification will be available during this course.</p> <p><i>Prerequisite: Anatomy and Physiology and Successful completion of Levels I and II Health Professions</i></p>		



## HOMELAND SECURITY PROGRAM COMPLETION

9 <sup>th</sup> Grade	Introduction to Homeland Security
10 <sup>th</sup> Grade	L1 Homeland Security
11 <sup>th</sup> Grade	L2 Homeland Security
12 <sup>th</sup> Grade	L3 Homeland Security

COURSE NAME	D.F.	CREDIT
<b>Introduction to Homeland Security (9700X)</b>	<b>1.0</b>	<b>0.50</b>

This course offers instruction in the basic components of the homeland security industry. This includes: emergency services, fire protection, and criminal justice specific to emergency and disaster situations.  
*Recommended Grade: 9<sup>th</sup>*

COURSE NAME	D.F.	CREDIT
<b>L1 Homeland Security (97110)</b>	<b>1.2</b>	<b>2.0</b>

This is the first in a series of three-year courses for the Homeland Security Career and Technology Education program. L1 Homeland Security will teach Law Enforcement techniques that are used when responding to emergency calls, conducting traffic stops, and performing crime scene investigations. Physical development and self-confidence skills are emphasized due to the nature of the specific occupation(s). In addition to the application of mathematics, communication, science and physics, students receive training in social and psychological skills, map reading, vehicle and equipment operations, the judicial system, pre-hospital emergency medical care and communications. This program prepares students to apply technical knowledge and skills required to perform entry-level duties in law enforcement and private security.

*Recommended Grade: Grade 10*

COURSE NAME	D.F.	CREDIT
<b>L2 Homeland Security (97130)</b>	<b>1.3</b>	<b>2.0</b>

This is the second in a series of three-year courses for the Homeland Security Career and Technology Education program. This program stresses the techniques, methods, and procedures specific to the area of Emergency Services. Physical development and self-confidence skills are emphasized due to the nature of the specific occupation(s). In addition to the application of mathematics, communication, science and physics, students receive training in social and psychological skills, map reading, vehicle and equipment operations, pre-hospital emergency medical care and appropriate emergency assessment, treatment and communication. This program prepares students to apply technical knowledge and skills required to perform entry-level duties in emergency medical services and obtaining an emergency medical technician certificate and other safety services.

*Prerequisite: Successful completion of Level I Homeland Security*

COURSE NAME	D.F.	CREDIT
<b>L3 Homeland Security (97140)</b>	<b>1.4</b>	<b>2.0</b>

This is the third in a series of three-year courses for the Homeland Security Career and Technology Education program. This program stressed the techniques, methods, and procedures specific to the area of Firefighting. Physical development and self-confidence skills are emphasized due to the nature of the specific occupation(s). In addition to the application of mathematics, communication, science and physics, students receive training in social and psychological skills, map reading, vehicle, and equipment operations, communication, and the fundamentals of firefighting. This program prepares students to apply technical knowledge and skills required to perform entry-level duties in the fundamentals of essentials of firefighting.

*Prerequisite: Successful completion of Level II Homeland Security*

## JOB SEEKING PROGRAM

12 <sup>th</sup> Grade	Capstone Co-op Workplace Readiness Diversified Occupations Co-op
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COURSE NAME	D.F.	CREDIT
<b>Workplace Readiness (93500)</b>	<b>1.0</b>	<b>1.0</b>
<p>Workplace readiness is a one-credit course for those students that have a part-time job during the school day. Emphasis will be placed on two areas; getting a job (acquisition) and maintaining your job (retention).</p> <p>Job acquisition documents will include, but will not be limited to; job applications, letters of appreciation following an interview, letters of introduction, postsecondary education applications, request for letters of recommendations, and resume writing.</p> <p>Learning how to maintain your job (retention) will focus on personal attitudes and work habits that support career retention and advancement along with conflict resolution skills The outcome of the class will incorporate a career portfolio of all assigned classroom projects.</p> <p>Students participating in a Capstone Cooperative Education are not eligible to take this class. <i>Prerequisite(s):</i>(Must be enrolled in the class entitled Diversified Occupations)</p>		
COURSE NAME	D.F.	CREDIT
<b>Diversified Occupations Co-op (93211)</b>	<b>1.0</b>	<b>.50</b>
<p>Diversified Occupations is an education program that combines classroom instruction with on-the-job training in a career area of the student’s choice. This unique program of education is designed to integrate classroom study in employability and life skills with planned, supervised, practical work experience. Students enrolled in Diversified Occupations must also be enrolled in the class entitled Workplace Readiness.</p> <p>The Diversified Occupations Program is a partnership between local businesses and the high school. Career competencies are developed at the job-training site. Related classroom theory is taught in the class entitled Workplace Readiness. Diversified Occupations serves groups of students whose career objectives cannot be met by attending any of the CTE programs offered at the local comprehensive high school or cannot find a spot in one of the CTE courses due to over enrollment. <i>Prerequisite(s):</i>(Must be enrolled in the class entitled Workplace Readiness)</p>		
COURSE NAME	D.F.	CREDIT
<b>Capstone Co-op (93321)</b>	<b>1.0</b>	<b>.50</b>
<p>Cooperative education is a structured method of combining classroom-based education with practical work experience. Research indicates that employer’s value job experience in their newly hired workers. A cooperative education experience, commonly known as a "co-op", provides academic credit for structured job experience. Cooperative education is taking on new importance in helping young people to make the school-to-work transition.</p> <p>CTE students are eligible for “Capstone Co-op” experiences if they have met the following criteria:</p> <ul style="list-style-type: none"> <li>• Be in one of WAHS’s approved CTE programs.</li> <li>• In line to be a CTE completer by the end of their senior year.</li> <li>• A senior in good academic standing.</li> <li>• Have good attendance.</li> <li>• Have transportation to and from their work site.</li> </ul> <p>Capstone Co-op students spend part of the school day in school taking classes required for graduation. The remainder of the day is spent at a worksite doing a paid job experience related to their CTE area of study.</p>		

## PRECISION MACHINING PROGRAM COMPLETION

9 <sup>th</sup> Grade	Intro to Precision Machining
10 <sup>th</sup> Grade	L1 Precision Machining/PCT AutoCad
11 <sup>th</sup> Grade	L2 Precision Machining/PCT AutoCad
12 <sup>th</sup> Grade	L3 Precision Machining/PCT AutoCad

COURSE NAME	D.F.	CREDIT
<b>Intro to Precision Machining (9270X)</b>	<b>1.0</b>	<b>0.50</b>
<p>This introduction class is a short-term opportunity for students to gain the advantage of having a year of experience in the shop prior to entering L1 Precision Machining. Students will learn the basics of how to use grinders, operate lathes and milling machines, cut metal with a torch, hammer iron as blacksmiths do, etc. Each year we make a different set of projects- but generally students are encouraged to be creative and apply what they've learned toward making projects that are personally rewarding and interesting.</p> <p><i>Recommended Grades: 9<sup>th</sup></i></p>		

COURSE NAME	D.F.	CREDIT
<b>L1 Precision Machining (92730)</b>	<b>1.2</b>	<b>2.0</b>
<p>Level 1 Precision Machining is the first of three levels designed to prepare students for a variety of careers in manufacturing or engineering by learning how to operate and program metalworking machines to produce complex, highly detailed parts. The following are examples of fields students might choose to pursue following program completion: manufacturing/production, machinery maintenance &amp; repair, production/manufacturing/process engineering, machinist/tool &amp; die maker, prototype development, machine design, CNC programmer, etc. Many of the skills students learn in this program can be applied in a wide variety of career areas, an added bonus in tough economic times. Students will learn to operate various lathes, mills, drills, saws and grinders to produce accurate parts according to blueprint dimensions. Students will also gain exposure to CNC machining and other metalworking processes (on a limited basis) such as welding, forging and foundry operations. Students will constantly utilize reference materials and formulas to solve practical problems in the shop. Students will apply a variety of complex, precise tools to measure parts down to one ten-thousandth of an inch! Program completion will require students to make certain parts to specifications developed by the National Institute of Metalworking Skills (NIMS), as well as to take proctored online exams through NIMS. These are nationally recognized, industrial credentials, earned while in high school.</p> <p><i>Recommended Grades: Grade 10<sup>th</sup></i></p>		

COURSE NAME	D.F.	CREDIT
<b>L2 Precision Machining (92740)</b>	<b>1.3</b>	<b>2.0</b>
<p>Level 2 will focus on more advanced operation of machine tools toward the completion of NIMS credentials. Students will use CAD-CAM software (Solidworks, AutoCAD, &amp; Fusion 360) and gain more experience with CNC machine tools. At this level students will be comfortable with most of the machines in the shop and are encouraged to create complex projects, mechanisms, jigs and fixtures, etc.</p> <p><i>Prerequisite(s): Successful Completion of L1 Precision Machining</i></p>		

COURSE NAME	D.F.	CREDIT
<b>L3 Precision Machining (92750)</b>	<b>1.4</b>	<b>2.0</b>
<p>Level 3 will focus on completing more NIMS credentials and when possible, preparing students for a particular field of interest, since the curriculum can be applied to so many different industries. Students showing a particular interest in a field of study will be encouraged to apply the curricular goals of the program toward applications common to that industry in preparation for employment. Our Advisory Committee has expressed a great deal of interest in recruiting qualified students for positions of local employment within the manufacturing industry. Opportunities for job-shadowing, apprenticeships and earning college credit in exchange for NIMS credentials can be a reality for those who strive to achieve the most from this program.</p> <p><i>Prerequisite(s): Successful Completion of L2 Precision Machining</i></p>		

## WELDING PROGRAM COMPLETION

10 <sup>th</sup> Grade	L1 PCT Welding
11 <sup>th</sup> Grade	L2 PCT Welding/PCT AutoCAD
12 <sup>th</sup> Grade	L3 PCT Welding/PCT AutoCAD

COURSE NAME	D.F.	CREDIT	Penn College <b>NOW</b> DUAL ENROLLMENT
<b>L1 PCT Welding Technology (92510)</b>	<b>1.4</b>	<b>2.0</b>	

This course is designed to offer students basic skills of welding. Covered in this introductory course will be oxygen/acetylene welding, cutting, plasma arc cutting and grinding. Safe procedures and work habits used in the welding industry are taught and required from the students.

*Recommended Grades: Grade 10<sup>th</sup>.*

\* Course is taught in accordance with Pennsylvania College of Technology's *WEL114/116: Shielded Metal Arc I & II*.  
*WEL114:* Introduction to the principles and practices of basic Shielded Metal Arc Welding (SMAW) using various types of mild steel electrodes in multiple positions with emphasis put on the flat and horizontal positions. The fundamentals of AC and DC current and various types of power sources are covered. (2 credits)

*WEL116:* The theory introduced in WEL 114 will be applied in this course. Development of practical hands-on techniques with various power sources using AC and DC current in multiple positions with the emphasis on the flat and horizontal positions. (2 credits).

**\*\*As a dual enrollment course, students must adhere to all Penn College NOW course expectations and demonstrate proficiency in reading.**

COURSE NAME	D.F.	CREDIT	Penn College <b>NOW</b> DUAL ENROLLMENT
<b>L2 PCT Welding Technology (92520)</b>	<b>1.4</b>	<b>2.0</b>	

This course is designed to build on the principles that were taught in Welding I (92510). The students will weld both ferrous and nonferrous metals with this process and will learn how to correctly weld joints of different configurations, while it is in different positions (flat, horizontal, vertical, overhead). Other covered areas of welding include, blueprint reading and weld symbols. Safe procedures and work habits used in the welding industry are taught and required from the students. (Dual enrollment for grades 11 and 12 only)

*Prerequisite(s): Level 1 Welding Technology.*

\* Course is taught in accordance with Pennsylvania College of Technology's *WEL120/124: Gas Metal Arc I & II*.  
*WEL120:* Principles and applications of Gas Metal Arc Welding (GMAW) applied to various metals. An introduction to single and multi-pass welds using a variety of electrode wire types, diameters, and transfer modes. (2 credits)

*WEL124:* Continued laboratory practice of Gas Metal Arc Welding (GMAW) introduced in WEL120. Activities include fundamental applications on ferrous metals in all positions using various modes of metal transfer and wire electrodes. (2 credits).

**\*\*As a dual enrollment course, students must adhere to all Penn College NOW course expectations and demonstrate proficiency in reading.**

COURSE NAME	D.F.	CREDIT	Penn College NOW DUAL ENROLLMENT
<b>L3 PCT Welding Technology (92530)</b>	<b>1.4</b>	<b>2.0</b>	
<p>This course is designed to build on the principles that were taught in Welding I (92510) and Welding II (92520), and will incorporate the welding processes that most industries demand. The students will weld both ferrous and nonferrous metals with these processes and will learn how to correctly weld joints of different configurations, while it is in different positions (flat, horizontal, vertical, overhead). Other covered areas of welding include, blueprint reading and weld symbols. Also covered procedures will include Submerged Arc Welding (SAW) and Air Carbon Arc Cutting (CAC-A). Safe procedures and work habits used in the welding industry are taught and required from the students.</p> <p><i>Prerequisite(s): Level 2 Welding Technology.</i></p> <p>* Course is taught in accordance with Pennsylvania College of Technology's <i>WEL123/129: Gas Tungsten Arc I &amp; II</i>.  <i>WEL123:</i> Introduction to the Gas Tungsten Arc Welding (GTAW) process. Theory is applied to related equipment, electrical concepts, material properties, arc characteristic, puddle control, and appropriate application of filler materials. Welding of ferrous and non-ferrous metals in all positions is covered. (2 credits)  <i>WEL129:</i> Laboratory activities, with emphasis on the welding of ferrous and non-ferrous metals in various joint configurations. Welding will be done using all positions. Joining dissimilar metals and metal identification is covered. (2 credits)</p> <p><b>**As a dual enrollment course, students must adhere to all Penn College NOW course expectations and demonstrate proficiency in reading.</b></p>			

# Fine and Performing Arts Department

## Music Department Course Requirements

All students may elect any course for which they are qualified and meet the prerequisites. Public performance is an important part of all ensemble classes. **Attendance is required** at all special rehearsals and scheduled performances.

## Course Descriptions: CURRICULAR MUSIC

All students may elect any course for which they are qualified and meet the prerequisites. Public performance is an important part of all ensemble classes. Attendance at all special rehearsals and scheduled performances is required.

### WAHS Choral Music

WAHS choral music is divided into ten performance offerings. Placement auditions are held annually before course selection. Concert performances throughout the year include fall, winter and spring concerts, an annual holiday concert and the all-district honors concert. All choir members are eligible to audition for co-curricular ensembles and festival choruses. Students wishing to participate in both instrumental and chorale ensembles will be scheduled into Performing Music. The students will be "shared" on a rotating basis by both the choral and instrumental teachers.

#### Freshman Chorale (60140)

Grade 9                      1.0 credit

#### Performing Music 9, Chorale-Orchestra (60280)

Grade 9                      1.0 credit

#### Performing Music 9, Chorale-Band (60290)

Grade 9                      1.0 credit

#### Concert Chorale (60150)

Grades 9 & 10              1.0 credit

#### Concert Choir (60120)

Grades 11 & 12             1.0 credit

#### Men's Choir (60170)

Grades 10, 11 & 12       1.0 credit

#### Women's Choir (60160)

Grades 10, 11 & 12       1.0 credit

#### Performing Music 10-12, Choir-Orchestra (60420)

Grades 10, 11 & 12       1.0 credit

#### Performing Music 10-12, Choir-Band (60430)

Grades 10, 11 & 12       1.0 credit

COURSE NAME	D.F.	CREDIT
<b>Freshman Choir (60140)(60280)(60290)</b>	<b>1.0</b>	<b>1.0</b>
<p>The Freshman Choir is designed to prepare students for the following choirs: Men's Choir, Women's Choir, Concert Chorale, and Concert Choir. Students wishing to participate in both instrumental and choral ensembles will be shared on a rotating basis. The ensemble concentrates on the essentials of choral singing which include: tone, vowel placement, changing voice, ensemble singing, leadership, blend, dictation, dynamics, posture, and musicianship.</p>		
COURSE NAME	D.F.	CREDIT
<b>Concert Chorale (60150)</b>	<b>1.4</b>	<b>1.0</b>
<p>Concert Chorale is for select students 9<sup>th</sup> and 10<sup>th</sup> grade is committed to the excellent performance of great choral masterworks from standard to repertoire. Combined with the Concert Choir, these ensembles make numerous appearances throughout the year at local concerts, college campuses, as well as regional and national competitions and performing events.</p>		

COURSE NAME		D.F.	CREDIT
<b>Men's Choir (60170)</b>		<b>1.0</b>	<b>1.0</b>
	Comprised of singers 10-12, members will focus on continuing their vocal development, focusing on skills listed above and improving their skill level of performance. Students wishing to participate in both instrumental and choral ensembles will be shared on a rotating basis. The choir performs music from all styles ranging from classical to popular.		
COURSE NAME		D.F.	CREDIT
<b>Women's Choir (60160)</b>		<b>1.0</b>	<b>1.0</b>
	Comprised of singers 10-12, members will focus on continuing their vocal development, focusing on skills listed above and improving their skill level of performance. Students wishing to participate in both instrumental and choral ensembles will be shared on a rotating basis. The choir performs music from all styles ranging from classical to popular.		
COURSE NAME		D.F.	CREDIT
<b>Concert Choir (60120)</b>		<b>1.4</b>	<b>1.0</b>
	Concert Choir is for select students in 11 <sup>th</sup> and 12 <sup>th</sup> grade. It is committed to the excellent performance of great chorale masterworks from standard repertoire. Combined with Concert Chorale, these ensembles make numerous appearances throughout the year at local concerts, college campuses, as well as regional and national competitions and performing venues.		

## WAHS Orchestras

WAHS has three orchestras to meet the skills and interests of string instrumentalists. Concert performances throughout the year include Fall and Spring Concerts, an Annual Holiday Concert, the All-District Honors Concert and PMEA Festival participation. All students are expected to participate in rotating, large group lessons unless they are studying privately. Any student who has had experience performing on a string instrument is encouraged to participate. Placement auditions are held annually before the time for course selection. Winds and percussion are added as needed to complete full-symphonic instrumentation.

Having established a reputation for musical excellence, the orchestras take great pleasure in performing a wide variety of challenging music ranging from the traditional orchestral repertoire to some of today's most contemporary sounds. In addition to full orchestra, performance opportunities exist in various small ensembles including chamber orchestras and string quartets. Students who develop their playing skills to a high level may be invited to appear as a soloist.

COURSE NAME		D.F.	CREDIT
<b>Freshman Orchestra (60260)</b>		<b>1.0</b>	<b>1.0</b>
	Freshman Orchestra is a class designed for all 9 <sup>th</sup> graders entering the WAHS Orchestra program. Emphasis in this class is placed on the WAHS Orchestra essential learning outcomes through the study of modern and classical string orchestra literature. Students will focus on developing technical skills in bowing and left hand facility, as well as in music literacy and sight-reading. Students will use the Essential Techniques, book three. Participation in evening performances throughout the year (approximately one per term) is required. Advanced freshman may also audition for The Millionaire Strolling Strings.		
COURSE NAME		D.F.	CREDIT
<b>Concert Orchestra (60250)</b>		<b>1.2</b>	<b>1.0</b>
	The Concert Orchestra is open to all orchestra students in grades 10 through 12 and is designed to develop and expand upon fundamental technique and musicianship by exploring more challenging repertoire for the string ensemble. Emphasis is placed on developing independence as well as cultivating mastery of more advance technique such as 2 octave scales and refining vibrato. The Concert Orchestra would be a non-auditioned designed to offer a bridge between the Freshman Orchestra and Sinfonietta. The orchestra will highlight fundamentals of shifting to upper octaves on the instruments as well as refining vibrato and bowing techniques. The Students will use Book 4 of Sound Innovations. Participation in evening performances throughout the year (approximately one per term) is required. Concert Orchestra does combine with Sinfonietta for the Holiday Concert as well as the Spring Pop-Tastik! concert.		

COURSE NAME	D.F.	CREDIT
<b>Sinfonietta/Symphony Orchestra (60230)</b>	<b>1.4</b>	<b>1.0</b>
The Symphony Orchestra is committed to the excellent performance of great orchestral masterworks from the standard repertoire. The WAHS Symphony Orchestra makes numerous appearances throughout the year at local concerts, college campuses, as well as regional and national level adjudication festivals. The first quarter of the year is dedicated to the development of the "Millionaire Strolling Strings" show for that year as well as preparation of district orchestra solo repertoire. The student's willingness to spend extra hours in home practice is vital to gaining and maintaining membership in the group.		

## WAHS Bands

WAHS has three band offerings to meet the skills and interests of woodwind, brass and percussion instrumentalists. Concert performances throughout the year include Fall and Spring Concerts, an Annual Holiday Concert, the All-District Honors Concert and Festival participation. All students are expected to participate in rotating, large group lessons unless they are studying privately. Any student who has had experience performing on a band instrument is encouraged to participate. Placement auditions are held annually before the time for course selection. Winds and percussion are offered an opportunity to perform with the string orchestra on an as needed basis. Participation in the "Millionaire Football Band" is required for members of all three bands. Turn to the "Co-Curricular Activities" section of this catalog for a description of the "Millionaire Football Band."

COURSE NAME	D.F.	CREDIT
<b>Freshman Band (60190)</b>	<b>1.0</b>	<b>1.0</b>
The purpose of the freshman band is to develop and refine the basic individual and ensemble skills that will permit them to pursue the finest in advanced band literature. This is an important year of musical growth and activity to help the students' bridge from the middle school to the high school ensemble. Ninth grade students wishing to participate in both instrumental and chorale ensembles will be scheduled into Performing Music. The students will be "shared" on a rotating basis by both the choral and instrumental teachers.		
COURSE NAME	D.F.	CREDIT
<b>Symphonic Band (60200)</b>	<b>1.2</b>	<b>1.0</b>
Symphonic Band students have the opportunity to further develop their individual and group ensemble skills by preparing the best in traditional high school band literature. The ensemble enjoys the reputation of consistently achieving a high level of performance. Students wishing to participate in both instrumental and choral ensembles will be scheduled into Performing Music 10-12. The students will be "shared" on a rotating basis by both the choral and instrumental teachers.		
COURSE NAME	D.F.	CREDIT
<b>Wind Ensemble (60180)</b>	<b>1.4</b>	<b>1.0</b>
The Wind Ensemble is designed to meet the needs of the more serious instrumental musician. The Wind Ensemble studies and performs some of the most demanding concert band literature written. The high standards of the ensemble require additional practice time by the individual students to maintain its consistent high quality of performance. The WAHS Wind Ensemble is truly the "pride" of the entire band program.		

## Music Electives

COURSE NAME	D.F.	CREDIT
<b>Hip Hop, Rap, and Rock &amp; Roll (6031X)</b>	<b>1.0</b>	<b>.50</b>
This course studies the basics of music writing and the development of the genre of hip hop music through an exploration of the history of these listed genres. Students will receive instruction in the following: basic music theory, artist development, song analysis, song writing, and music technology. This course heavily relies on the use of cross-curricular components, including poetry, history, and technology. Students will use some of the latest industry technology to further enhance their Hip Hop/Rap experience by developing beats and mixing songs, using Macbooks, Hercules DJControl Inpulse 500 mixers, and PreSonus Atom drum machine.		
<i>There are no prerequisite requirements</i>		



COURSE NAME		D.F.	CREDIT
<b>Guitar S1/S2 (6035X)</b>		<b>1.0</b>	<b>.50</b>
<p>Guitar is designed for beginner through the accomplished player. This course will differentiate instruction to the student's abilities. It will include intermediate picking and chording accompaniments, rock, folk, blues and classical styles of playing will be strongly emphasized. The reading of beginner and intermediate chord diagrams and music will be included.</p> <p><i>There are no prerequisite requirements</i></p> <p><i>Course can be taken twice at a max.</i></p>			
COURSE NAME		D.F.	CREDIT
<b>AP Music Theory (60010)</b>		<b>1.45</b>	<b>.50</b>
<p>AP Music Theory seeks to develop a thorough grasp of the fundamentals of music through the study of scales, intervals, keys and triads, leading to the writing of simple four-part harmonization. Strong emphasis is placed on ear-training and the improvement of music reading. This course will prove most beneficial to those planning to follow a career in music or music education. Other pupils who want to acquire a good basic musical knowledge would find this course very helpful.</p> <p>Music Theory AP moves at an accelerated rate and is designed to prepare students for the AP Music Theory Exam. Students are expected to take the AP exam.</p> <p><i>Prerequisite(s): Recommendation of Theory Instructor based on previous music background</i></p>			
COURSE NAME		D.F.	CREDIT
<b>Piano Keyboarding I S1/S2(6003X)</b>		<b>1.0</b>	<b>.50</b>
<p>Do you want to impress family and friends with a song other than Heart and Soul or Chopsticks? Do you know that 70% of adults wish they learned to play piano? This beginning group piano class is for students with little or no playing experience. Time will be spent on and off the keyboards. The course will include basic music reading skills and progress from simple to intermediate piano playing. Students will receive daily group instruction as well as weekly individual lessons. Throughout the semester, all students will be able to perform individually and in a group ensemble. By the end of the course, students should master the basic techniques of piano performance and be able to play music from classical to popular genres of music.</p> <p><i>There are no prerequisite requirements</i></p> <p><i>Course can be taken twice.</i></p>			
COURSE NAME		D.F.	CREDIT
<b>Piano Keyboarding II S1/S2 (6006X)</b>		<b>1.0</b>	<b>.50</b>
<p>This intermediate to advanced piano class is for students with experience on the piano. Time will be spent on and off the keyboards. The course will include advanced music reading skills and progress from intermediate to advanced piano playing. Students will receive daily group instruction as well as weekly individual lessons. Throughout the semester, all students will be able to perform individually and in a group ensemble. By the end of the course, students should display an improvement over their existing technique of piano performance and be able to play music from classical to popular genres of music.</p> <p>Designed for students who wish to expand on their existing skills. While playing, students will be working individually and in small groups to master the techniques of playing and to learn pieces. There will also be time spent in group instruction on musical notation and theory. Students will receive daily group instruction and weekly individual lessons. Designed to teach advanced musicianship skills and piano technique &amp; style. It is designed to provide instruction in piano technique which includes basic music theory, playing solo and in groups, and care of the keyboard and related equipment.</p> <p><i>Piano Keyboarding I or previous piano lessons are a prerequisite.</i></p>			

COURSE NAME	D.F.	CREDIT
<b>Music Technology and Production (6055X)</b>	<b>1.0</b>	<b>1.0</b>
<p>This course introduces and fosters the study and application of the intersections of the technology and music. This program can serve students with no musical experience and those who already study an instrument in or out of the school district. This course will expand the students' exposure to and depth of understand of many musical genres. Students will be provided hands-on experience with the technology in order to gain a first-hand understanding of the cutting-edge innovations that exist in the Music Technology world. This course will explore the fundamentals of creating and organizing music with computers. This is a project-based class in which students will use different software applications to create and arrange music. The course will feature Hercules DJControl Inpulse Mixers, PreSonus Atom drum machines, MacBook pros, and midi keyboard stations.</p> <p><i>There are no prerequisite requirements</i></p>		

## **Course Descriptions: Drama and TV Production**

COURSE NAME	D.F.	CREDIT
<b>Drama I (00711)</b>	<b>1.0</b>	<b>.50</b>
<p>Drama I is an activity-oriented course that offers an introductory look at the fascinating world of theater. The course includes improvisation; pantomime, voice development, stage etiquette and basic play production. Through participation, students will have opportunities to increase their abilities to observe, to imagine, to respond, and to develop both body and vocal expression in an open, supportive environment. Enrollment will be limited if demand exceeds available resources.</p>		
COURSE NAME	D.F.	CREDIT
<b>Drama II (00722)</b>	<b>1.0</b>	<b>.50</b>
<p>Drama II is an exciting continuation of the creative dramatic work introduced in Drama I. Students will explore the "play" from various perspectives. Activities will include advanced character development, specific acting techniques, play writing, directing, and technical theater. The "hands-on" approach of this class builds responsibility and maturity in students as they grow in their understanding and appreciation of theater.</p> <p>Enrollment will be limited if demand exceeds available resources.</p> <p><i>Prerequisite(s): Successful completion of Drama I</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Drama III (00731)</b>	<b>1.2</b>	<b>.50</b>
<p>This semester course in drama encourages students to explore and practice technical theatre as well as performance. Students will engage in scriptwriting and advanced acting techniques as well as set design and construction. Because this course will work within an applied theatre arts framework, students will explore careers requirements for various theatre technicians. Students will also practice skills needed for careers in Broadcast Journalism through their involvement in the production of the school radio show.</p> <p>Enrollment is limited to students in 10th, 11th, or 12th grade.</p> <p><i>Prerequisite(s): Drama II (with an average of 85% or better in Drama II) and recommendation of drama teacher.</i></p>		

COURSE NAME	D.F.	CREDIT
<b>Drama IV (00742)</b>	<b>1.2</b>	<b>.50</b>
<p>This semester course in drama builds on Drama III and continues to develop skills in scriptwriting, directing, acting and producing for both “reader’s theatre” and traditional productions. Students will also be actively involved in the videotaping and editing of a dramatic piece for their portfolios. As well as preparing for a career in the theatre, students will continue their work on the school radio show.</p> <p>Enrollment is limited to students in 10th, 11th, or 12th grade.  <i>Prerequisite(s): Drama III (with an average of 85% or better in Drama III).</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Drama Studio (00760)</b>	<b>1.2</b>	<b>1.0</b>
<p><b>Course Description</b></p> <p>Drama Studio builds on the skills, knowledge and activities of Drama 1-4 and provides students with the arena to prepare, produce and perform in more extensive productions. Activities would include writing and producing published and original plays, scenes and monologues. Opportunities will also include all aspects of performance and technical theater. Writing and the study of drama history will be integrated components of the class. Public performance beyond the school day is a requirement of the class.  <i>Prerequisite(s): Successful completion of Drama 1-4</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Television Production (00750)</b>	<b>1.2</b>	<b>1.0</b>
<p>The Television Production course introduces students to all phases and aspects of video production in a studio setting. Topics covered include: camera operations, field and studio production, directing, programming, script writing, lighting, editing, and a total overview of the television industry. The design of the course emphasizes hands-on experience where students train on professional studio equipment creating a variety of video projects including the daily announcements. Attendance at productions outside of the regular school day is a requirement of this class.  <i>Prerequisite(s): Enrollment is limited to students in 10th, 11<sup>th</sup>, or 12th grade who have successfully completed a drama course or recommendation of drama teacher.</i></p>		

## Visual Arts Department

### Course Descriptions: Visual Arts

The Visual Art Department offers three discipline focus tracks: Two-Dimensional (Drawing, Painting, Printmaking), Three-Dimensional (Clay, Sculpture, Jewelry), and Photography & Digital Media. In each track, students will develop artistic literacy by creating, presenting, responding to and connecting with visual works of art. Students may take the courses as a means of expression and communication or with a drive to develop and refine artistic skills. We aim to provide opportunities for creative and critical thinking and build a foundation of 21<sup>st</sup> Century skills that carry over into other academic disciplines. Prerequisites must be met for advanced, Advanced Placement and independent study courses.

COURSE NAME	D.F.	CREDIT
<b>Drawing (7002X)</b>	<b>1.0</b>	<b>0.50</b>
<p>Students will develop drawing skills with a variety of experiences in two-dimensional media. Various methods and materials (such as graphite, charcoal, ink) will be explored. Grounded in the Elements and Principles of Art and Design, a range of drawing concepts will be covered including but not limited to composition, value range, and perspective. Emphasis is placed on the development of observational and technical rendering skills.</p> <p><i>Prerequisite(s): None</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Painting and 2D Design (7003X)</b>	<b>1.0</b>	<b>0.50</b>
<p>Students will develop painting skills with a variety of experiences in two-dimensional media. Various methods and materials (such as watercolor, acrylic, collage) will be explored. Grounded in the Elements and Principles of Art and Design, a range of painting concepts will be covered including but not limited to composition, color theory, and process. Emphasis is placed on creative expression and the exploration of media.</p> <p><i>Prerequisite(s): None.</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Mindful Art (7004X)</b>	<b>1.1</b>	<b>0.50</b>
<p>Students will approach painting, drawing, and 3-Dimensional processes of creating with a foundation in mindfulness. Anxiety-reducing and stress-reducing strategies will be incorporated, explored, and practiced through visual art experiences. This course will merge the creative visual process with mindfulness practice and is open to all students. No previous art experience required.</p> <p><i>Prerequisite(s): None. Course can be taken more than once.</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Two-Dimensional 2D Visual Art (71530)</b>	<b>1.2</b>	<b>1.0</b>
<p>Students will further develop skills in a variety of two-dimensional media. Various methods and materials (such as graphite, charcoal, ink, painting and printmaking) will be explored. A range of advanced two-dimensional concepts will be covered including composition, color theory and portfolio development. Emphasis is placed on the development of observational and technical skills needed for image making.</p> <p><i>Prerequisite(s): Painting and Drawing and/or instructor approval</i></p>		

COURSE NAME	D.F.	CREDIT
<b>Advanced Two-Dimensional 2D Visual Art (70050)</b>	<b>1.3</b>	<b>1.0</b>
<p>Students will explore a variety of two-dimensional media including: sketchbooks, advanced drawing, advanced painting and advanced printmaking skills and techniques. Portfolio preparation is a focus of the class.</p> <p><i>Prerequisite(s): Instructor Recommendation (portfolio review). Course can be taken more than once.</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Introduction to Sculpture, Ceramics, and Craft (70060)</b>	<b>1.1</b>	<b>0.5</b>
<p>Introduction to Sculpture, Ceramics, and Craft is designed as an overview course focusing on the exploration of 3-Dimensional media. Safe and proper handling of tools and materials will be practiced. Emphasis will be placed on the Elements and Principles of Design, sketchbooks, drawing, pottery/ceramics, sculpting, and crafts.</p> <p><i>Prerequisite(s): None. Course can be taken more than once.</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Advanced Sculpture (70101X)</b>	<b>1.3</b>	<b>0.5</b>
<p>Extensive studio experiences with sculpture will be accompanied by opportunities to gain further understanding about why we make art, how to interpret art works, and the influences of history on art. Students will explore a variety of three-dimensional and sculptural media.</p> <p><i>Prerequisite(s): Introduction to Sculpture, Ceramics and Craft. Course can be taken more than once.</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Advanced Ceramics (7008X)</b>	<b>1.3</b>	<b>0.5</b>
<p>Extensive studio experiences with ceramics will be accompanied by opportunities to gain further understanding about why we make art, how to interpret art works, and the influences of history on art. Students will explore a variety ceramic materials, techniques, and processes.</p> <p><i>Prerequisite(s): Introduction to Sculpture and Ceramics and Craft. Course can be taken more than once.</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Advanced Stained Glass (7009X)</b>	<b>1.3</b>	<b>0.5</b>
<p>Extensive studio experiences with stained glass will be accompanied by opportunities to gain further understanding about why we make art, how to interpret art works, and the influences of history on art. Students will explore a variety materials, techniques, and processes related to stained glass.</p> <p><i>Prerequisite(s): Introduction to Sculpture, Ceramics, and Craft. Course can be taken more than once.</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Advanced Jewelry (7010X)</b>	<b>1.3</b>	<b>0.5</b>
<p>Extensive studio experiences with jewelry will be accompanied by opportunities to gain further understanding about why we make art, how to interpret art works, and the influences of history on art. Students will explore a variety materials, techniques, and processes related to jewelry making.</p> <p><i>Prerequisite(s): Introduction to Sculpture, Ceramics, and Craft. Course can be taken more than once.</i></p>		

COURSE NAME	D.F.	CREDIT
<b>Introduction to Photography &amp; Digital Media (71650)</b>	<b>1.1</b>	<b>1.0</b>
<p>Photography &amp; Digital Media is a full-year computer based art class. This class will focus on visual literacy with symbolic &amp; aesthetic analysis of photography, photo based media, graphic design &amp; the resulting culture. In this class, students will learn and practice the principles of creating strong visuals using photography &amp; graphic design, and gain plenty of experience working with digital media tools &amp; graphics software. Students will also learn introductory principles of computer programming &amp; use code to create interactive graphics.</p> <p><i>Prerequisite(s): None</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Animation (7011X)</b>	<b>1.2</b>	<b>0.5</b>
<p>The Animation art course is designed to give students exposure to a wide range of animation techniques both traditional &amp; digital. Concepts such as cell animation, stop motion, Claymation, as well as computer generated animation will be explored. Students will learn about the historical &amp; cultural evolution of animation &amp; develop their skills in the areas of character design, storytelling, &amp; creating the illusion of movement.</p> <p><i>Prerequisite(s): One high school level art course</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Film &amp; Video (7012X)</b>	<b>1.3</b>	<b>0.5</b>
<p>The Film &amp; Video art course is a semester long class on video creation &amp; film history. Students will utilize professional and mobile editing software to explore filmmaking in non-fiction &amp; fiction genres such as documentary, music video, and short film.</p> <p><i>Prerequisite(s): Intro to Photo or Digital Media Instructor Recommendation (portfolio review)</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Advanced Animation (70102X)</b>	<b>1.3</b>	<b>0.5</b>
<p>Students in Advanced Animation will continue building on the skills learned in Animation, utilizing the Principles of Animation and traditional and digital processes to further develop their animation portfolio. Students will learn the concepts of cell painting, walk cycles and lip syncing, as well as, more about the historical and cultural evolution of animation. Students in Advanced Animation will continue to develop their skills in the areas of character design, storytelling, and creating the illusion of movement.</p> <p><i>Prerequisite(s): Animation. Course can be taken more than once.</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Advanced Photography and Digital Media (70140)</b>	<b>1.3</b>	<b>1.0</b>

<p>Students will explore a variety of photography and digital media techniques, including: sketchbooks, advanced traditional and digital photography methods, digital design and composition, still and moving images. Portfolio preparation is a focus of the class.</p> <p><i>Prerequisite(s): Intro to Photo &amp; Digital Media, or Instructor Recommendation (portfolio review) Course can be taken more than once.</i></p>		
<b>COURSE NAME</b>	<b>D.F.</b>	<b>CREDIT</b>
<b>AP 2D Studio Art (71480)</b>	<b>1.45</b>	<b>1.0</b>
<p>The AP 2D Studio art course is for students interested in a rigorous and focused study in 2D art. Students will develop a quality portfolio that demonstrates a mastery of concept, composition and execution in 2D design. AP 2D Studio is not based on a written examination; instead, students submit portfolios (to a national board) for evaluation at the end of the year. The portfolio will demonstrate quality and sustained investigation. As in any college level course, students will be expected to spend a considerable amount of time outside of class in order to complete assignments, including summer assignments.</p> <p><i>Prerequisite(s): Recommendation of AP Studio Instructor based on previous art background.</i></p> <p><b>Students enrolled in this course are expected to submit an advanced placement portfolio.</b></p>		
<b>COURSE NAME</b>	<b>D.F.</b>	<b>CREDIT</b>
<b>AP 3D Studio Art (71670)</b>	<b>1.45</b>	<b>1.0</b>
<p>The AP 3D Studio art course is for students interested in a rigorous and focused study in 3D art. Students will develop a quality portfolio that demonstrates a mastery of concept, composition and execution in 3D design. AP 3D Studio is not based on a written examination; instead, students submit portfolios (to a national board) for evaluation at the end of the year. The portfolio will demonstrate quality and sustained investigation. As in any college level course, students will be expected to spend a considerable amount of time outside of class in order to complete assignments, including summer assignments.</p> <p><i>Prerequisite(s): Recommendation of AP Studio Instructor based on previous art background.</i></p> <p><b>Students enrolled in this course are expected to submit an advanced placement portfolio.</b></p>		
<b>COURSE NAME</b>	<b>D.F.</b>	<b>CREDIT</b>
<b>AP Art History (71470)</b>	<b>1.45</b>	<b>1.0</b>
<p>The AP Art History course welcomes students into the global art world to engage with its forms and content, as they research, discuss, read, and write about art, artists, art making, and responses to and interpretations of art. By investigating specific course content of 250 works of art characterized by diverse artistic traditions from prehistory to the present, the students develop in-depth, holistic understanding of the history of art from a global perspective. Students learn and apply skills of visual, contextual, and comparative analysis to engage with a variety of art forms, developing understanding of individual works and interconnections across history.</p> <p><i>Prerequisite(s): Recommended for grades 11 &amp; 12.</i></p> <p><b>Students enrolled in this course are expected to take the Advanced Placement Examination.</b></p>		
<b>COURSE NAME</b>	<b>D.F.</b>	<b>CREDIT</b>
<b>Art Studio Independent Study (71500) (71XXX?)</b>	<b>1.3</b>	<b>0.5/1.0</b>

<p>This Studio Art course is designed for junior and senior art students who have completed courses in 2D, 3D, or PDM. Students will focus on portfolio preparation and developing work series for exhibition. Will include visual journaling, proper studio maintenance, independent and collaborative project proposals.</p> <p><i>Prerequisite(s): Recommendation of Art Instructor based on previous art background. Course can be taken more than once.</i></p>		
COURSE NAME	D.F.	CREDIT
<b>Fashion Design (7XXXX?)</b>	<b>1.1</b>	<b>0.5</b>
<p>This course provides an introduction to a variety of artmaking skills related to fashion and wearable design. Students will examine and implement practical and conceptual design solutions through both 2D and 3D techniques. A range of concepts will be covered including: fashion illustration, trends, pattern, altered designs. A foundational drawing course is required.</p> <p><i>Prerequisite(s): Drawing.</i></p>		

## Course Requirements

### Health and Physical Education Department

#### Health and Physical Education Department

**It is a graduation requirement that each student is required to complete the prerequisite semester of Physical Education 01 and successfully complete Health 01. After completion of those requirements they must complete EITHER an additional Physical Education course (PHYS ED 03, 04, 05, 06) or Health 02.**

**After these requirements are met a student is encouraged to take additional Physical Education or Health Education courses as an elective.**

### Course Descriptions: Physical & Health Education

#### Physical Education Philosophy

To prepare all students with a variety of movement experiences that will lead to an active and healthy life.

#### Overview

Physical Education (PE) contributes to the physical, intellectual, social and emotional well-being of the student. Our curriculum is devoted to purposeful instruction in progressive activities to promote a positive self-concept through fitness, sport, and lifetime recreational pursuits. Each student is able to achieve success according to his/her ability. Participation and involvement are required at all levels. Health related fitness is the goal for all students. The curriculum intent is to provide students of all abilities and interests with a variety of movement experiences that will lead to an active and healthy life. Activities are taught in a coeducational environment. Students needing adapted physical education are scheduled into a program tailored to their needs.

COURSE NAME	D.F.	CREDIT
<b>PERSONAL FITNESS/BASIC AQUATICS (PE01) (9091X)</b>	<b>1.0</b>	<b>.50</b>
<p>Physical Education 01 is designed for 9th and 10th grade students as a fundamental course that serves as a prerequisite for the remainder of the Physical Education course offers. Students will be introduced to a variety of activities including team and individual sports. This course focuses on the understanding and implementation of personal fitness concepts. Strength training, aerobic conditioning, and functional training are improved through daily training and assessed using a variety of fitness tests. Finally, the course will allow students to become proficient in aquatics skills. An emphasis is placed on execution of basic swimming strokes, open water survival, and diving. (Fitness Walking, Jogging, Functional Training/Flexibility and Fitness Testing, Core Strengthening, Plyometrics, Soccer, Tennis, Table Tennis, Strength Training, Flag Football, Speedball, Beginning and Advanced Swimming Strokes, Water Aerobics, Aerobic Swimming, Concepts of Physical Fitness, Team Handball, Badminton, Diving, Circuit Training) Concepts will be reinforced through appropriate content reading and writing.</p>		



COURSE NAME		D.F.	CREDIT
<b>PHYSICAL FITNESS AND BODY COMPOSITION (PE03) (9093X)</b>		<b>1.0</b>	<b>.50</b>
<p>The Physical Fitness and Body Composition course will build on the fitness principles developed in Physical Education 01. The objectives of Physical Education 03 are for the student to achieve and maintain a health-enhancing level of physical fitness and exhibit responsible personal and social behavior that respects self and others in physical activity settings. Instruction will include both personal and group fitness training. Cardiovascular/aerobic training, body composition intervention, explanation of resistance training methods and techniques, principles of healthy nutrition choices and safety factors will be emphasized. Group fitness training such as circuit and interval training, step and floor aerobics, stability ball exercises, abdominal/core exercises, resistance bands, hand weights, jump ropes, Pilates techniques, yoga/flexibility workouts, kick boxing aerobics, hip hop aerobics, basic dance techniques are examples of activities that will be incorporated for a full body workout that sculpts and tones the body, build cardiovascular endurance and burn calories. Principles of nutritional concepts will be combined with sound fitness training models. This course will provide the knowledge and skills necessary to make positive lifelong fitness choices.</p>			
COURSE NAME		D.F.	CREDIT
<b>LIFETIME/ RECREATIONAL ACTIVITIES (PE04) (9094X)</b>		<b>1.0</b>	<b>.50</b>
<p>Students will build and develop skills and strategies that were introduced in Physical Education 01 that are associated with individual, dual and lifetime activities. The course identifies and emphasizes activities that can be implemented into an individual's continual pursuit toward healthy living across a lifetime. Probable units of instruction include but are not limited to the following: badminton, canoeing, fitness walking/jogging, golf, pickleball, table tennis, tennis, fitness training, volleyball and water games, and Ultimate Frisbee. Concepts will be reinforced through appropriate content reading and writing.</p>			
COURSE NAME		D.F.	CREDIT
<b>TEAM SPORTS (PE05) (9095X)</b>		<b>1.0</b>	<b>.50</b>
<p>Based on the knowledge and skills gained from Physical Education 01, students will continue to develop techniques, skills, and strategies that are associated with team focused activities. Emphasis will be put on cooperative teamwork, sportsmanship, and self-regulating. A component of the course will focus on developing and practicing student leadership skills in an official and coaching role. Movement and sport concepts will be reinforced through various assessments and literacy activities.</p>			
COURSE NAME		D.F.	CREDIT
<b>PERSONAL FITNESS AND CONDITIONING (PE06) (9096X)</b>		<b>1.0</b>	<b>.50</b>
<p>Students will review fitness topics and concepts that were introduced in Physical Education 01. New concepts of fitness training and exercises will be explored in order to build the foundation necessary to design and implement a personal fitness and strength program. A variety of fitness activities will be practiced and performed in venues besides the WAHS weight room throughout the semester; including the swimming pool. Basic human anatomy, fitness safety, proper training form and technique will be stressed in this course. Students will also utilize fitness equipment such as free weights, machine weights, kettle bells, body bars, dumbbells, stability balls, and resistance bands in addition to other bodyweight, plyometric, and agility training activities. Training activities include fitness walking, step aerobics, jogging, yoga, aquatic conditioning, and Pilates, which will round out the content of this course. Student progress will be monitored with a selection of fitness tests and evaluations while reinforcing these concepts through appropriate content reading and writing activities.</p>			

## Health Education Philosophy

Provide all students with the skills and knowledge to consistently practice behaviors that promote lifelong health and well-being, to use quality health care services effectively, and to promote the health of others, the community and environment.

**Overview**

The Williamsport Area High School’s comprehensive health education curriculum teaches students the functional knowledge and skills needed to promote health and prevent disease. The curricular assessment framework was developed from the coordination of the Pennsylvania State Standards, the National Health Education Standards and the Health Education Assessment Project. Our goal is for students to become health literate so they can think through and make healthy choices in solving their own problems, be responsible and make choices that benefit themselves and others, use communication skills in clear and respectful ways and be in charge of accessing valid health information.

COURSE NAME	D.F.	CREDIT
<b>Health Enhancing Behaviors and Risk Reduction (Health 01) (9085X)</b>	<b>1.0</b>	<b>.50</b>
<p>A course encompassing many topics important to teenagers as identified by the CDC’s Six Adolescent Risk Behaviors: alcohol and drug use, injury and violence, tobacco use, nutrition, physical activity, and sexual behaviors. The course topics include: Nutrition, Drug &amp; Alcohol, Human Sexuality, and Violence Prevention and Wellness and Consumer and Personal Health. A strong emphasis will be placed on the goal setting and decision making skills.</p> <p><b><u>Nutrition</u></b> Students will analyze factors that impact nutritional choices and assess their diets to develop plans for improvement. Other nutrition topics include: eating disorders, fad diets, fast food analysis, portion sizes and nutrition labels.</p> <p><b><u>Drug &amp; Alcohol</u></b> Students will explore current trends in drug and alcohol use. They will analyze prevention, intervention and treatment strategies in relation to adolescent and adult drug use. Analyzing influences, interpersonal communication, decision making and goal setting skills will be implemented and practiced.</p> <p><b><u>Human Sexuality</u></b> In this unit, students will understand human anatomy and reproduction. They will also learn how to apply protective/preventative strategies related to teen pregnancy and sexually transmitted infections. Teen relationships/dating and decision-making skills will be explored.</p> <p><b><u>Violence Prevention</u></b> Students will analyze and apply strategies to avoid or manage conflict and violence during adolescence. They will learn how to practice using decision-making strategies to solve problems, analyze influences, practice goal setting, demonstrate interpersonal communication skills, access information and advocate for non-violent outcomes when solving conflicts.</p> <p><b><u>Wellness and Consumer &amp; Personal Health</u></b> Students will explore the relationship between health and wellness. There is a connection between lifestyle choices and lifestyle diseases that students will examine as well as listing health habits that they can adopt to maximize their wellness. Students will learn how goal setting, motivation, and personal choice can improve health and prevent disease. Also included are healthy consumer choices, health care provider services, and health related information and products</p>		
COURSE NAME	D.F.	CREDIT
<b>Personal, Family and Community Health (Health 02)(9086X)</b>	<b>1.0</b>	<b>.50</b>
<p>This class builds sequentially from the content in Health 01. A variety of topics identified by the CDC’s Adolescent Health Risk Behaviors as current issues facing teen and adult health will be included. These topics include: Stress Management, First Aid &amp; CPR/AED, Family Living, Current Health Topics, and an exploration of skills to prepare students who are interested in health related careers. A variety of teaching techniques will be used which involve maximum participation by the student. There will be a concentrated focus on the following skills: core concepts, accessing valid health information, analyzing influences, interpersonal communication, self-management, goal setting, decision making, and advocacy.</p> <p><b><u>Stress Management</u></b></p>		

This is an insightful unit in which students will reflect upon themselves and identify their stressors, signs of stress and positive ways to cope with stress. Students will describe how the nervous, hormonal, and immune systems respond to stress. They will also practice relaxation techniques to help manage stress.

### **First Aid & CPR/AED**

Students will be trained and offered certification through the American Red Cross Adult CPR/AED and Standard First Aid courses taught by health teachers at the high school who are authorized instructors. Upon successful completion of the required written and skill-based testing, students may purchase their certification cards issued by the American Red Cross. Regardless of purchasing the certification cards, all students will receive the content and skills for certification.

### **Family Living**

This unit builds upon students' existing knowledge of human sexuality, including anatomy, reproduction, and protective/preventative strategies related to teen pregnancy and sexually transmitted infections. In addition, students will study the process of pregnancy and birth. They will discuss the responsibilities of being a parent and evaluate their goals and decisions for a healthy and productive future. Goal Setting skills will encourage realistic strategies towards becoming a healthy sexual adult.

### **Current Health Topics**

The focus will be improving health literacy. Current Health Topics will be explored along with skills to prepare students who are interested in health-related careers. A variety of teaching techniques will be used which involve maximum participation by the student. There will be a concentrated focus on the following skills: core concepts, accessing valid health information, analyzing influences, interpersonal communication, self-management, goal setting, decision making, and advocacy.

### **Drug Education**

This unit will use current research (local/state) to address noted substance-related issues among adolescents. Evidence based programs will be explored to encourage healthy decision-making and self-management. An emphasis is placed on identifying community resources related to drug and alcohol abuse. Core content and skills will be used to reinforce a student's responsibility in avoiding substance abuse and the mental and social consequences.

*Prerequisite(s): Must achieve a passing grade of 65% or above in Health 01*

## **SPECIAL EDUCATION**

The Williamsport Area High School is committed to educating all students, including those with significant disabilities, in the Least Restrictive Environment. The high school offers a continuum of special education supports and services to meet the diverse needs of exceptional students. Special education services available at the high school include Learning Support, Emotional Support, Life Skills Support, Speech/Language Support, Hearing Support, Vision Support, and Autistic Support. In addition, BLaST Intermediate Unit #17 operates a Multiple Disabilities Support program for students with significant disabilities.

The high school is committed to educating students with disabilities with non-disabled peers in the regular education environment to the maximum extent appropriate. To accomplish this objective, the high school supports the implementation of effective inclusive practices for all students. Through the collaborative effort among regular education and special education personnel, co-teaching classes have been established in many core content areas. The high school will continue to enhance its inclusive practices by providing on-going professional development.

The final determination of educational services for exceptional students will be dependent upon the identified needs of the students as determined by the IEP team. A continuum of services is available to meet the diverse needs of all students including, but not limited to, the following: Regular Education with Consultation from Special Education, Regular Education with Consultation and Accommodations, Regular Education with direct Special Education support within the classroom, Regular Education with direct Special Education support outside the classroom, and separate Special Education classes outside of Regular Education.

An Individualized Education Plan (IEP) is developed by the IEP team, including parents, to meet the individual strengths and needs of all exceptional students. When determining how to best meet a student's goals and objectives, the IEP team begins with a discussion of supports within the regular education environment. The IEP team will review the necessary Supplementary Aids and Services needed to enable the exceptional student to participate in regular education programs to the maximum extent appropriate. Only after the IEP team has determined that success in the regular education program is not possible will it discuss placement in a more restrictive environment.

The Williamsport Area High School supports comprehensive transition planning for students with disabilities to prepare them for post-school outcomes. The district offers a community based work program for high school students, with transportation provided to various training sites such as the local hospital, hotels, and several area businesses. Students in the high school Life Skills and Autistic Support classes participate in an instructional academic program based on the Pennsylvania Alternative Academic Standards, as well as a functional curriculum that includes a strong independent living component, prevocational skills, and a supervised work

training experience.

The Williamsport Area High School employs a highly qualified special education staff that is committed to helping exceptional students achieve their maximum potential. Currently, the high school employs 23 special education teachers, an itinerant hearing support teacher, and a Transition Coordinator. All special education teachers participate in ongoing professional development trainings regarding IEP development, progress monitoring, and legal issues in special education. Select special education teachers have also been trained in a variety of specific instructional intervention programs, as well as non-violent crisis intervention and social skills instruction. Related service providers from the BLaST IU#17 include a speech/language therapist, behavior consultants, and a vision specialist. Occupational therapy and physical therapy is provided through HOPE/CDC. In addition, the high school employs several instructional aides and personal care assistants who provide additional supports and services for exceptional students. All support staff also participate in annual professional development activities related to the students whom they service.

## **Williamsport Area High School Non-Discrimination Policy**

The Williamsport Area School District is an equal opportunity education institution and will not discriminate on the basis of race, color, national origin, sex and handicap in its activities programs, or employment practices as required by Title VI of the Civil Rights Act of 1964, Title IX Education Amendment of 1972, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disability Act of 1990.

For information regarding civil rights or grievance procedures, services, activities, and facilities that are accessible to and useable by handicapped individuals, contact:

**Anne Logue, Human Resources Director,  
Williamsport Area School District  
2780 West Fourth Street, Williamsport, PA 17701  
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