

WEST  
ALLEGHENY  
HIGH  
SCHOOL



PROGRAM OF STUDIES



*A Tradition of Excellence . . . A Vision for Tomorrow*

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# WEST ALLEGHENY HIGH SCHOOL ADMINISTRATORS, COUNSELORS, AND SUPPORT STAFF

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Dear West Allegheny High School Students,

Our primary goal at West Allegheny High School is to ensure that every student is career and/or college ready with a viable post-secondary pathway at the time of graduation. It is time to start looking towards your future, both next year and beyond, and the West Allegheny High School staff is here to help. As you consider what path you want to take in life—whether that be to enter into the workforce, an apprenticeship program, a branch of the armed services, or continue your education at a four-year, two-year, or technical college — your teachers, counselors, and administrators are here to support and guide you through career exploration and the course selection process. This Program of Studies has been thoughtfully designed to provide resources to help you and your family determine a pathway of courses to best prepare you for your future.

In addition to course descriptions, this program contains updated graduation requirements – aligned with the State’s recommendations and requirements, academic planning guides, course sequence recommendations, and college and career pathways intended to assist you in your selections. We strongly encourage you to complete the Holland Codes Career Interest Assessment found in this program and use your results as a guide when reviewing the summary of programs and pathways. These tools are aimed at helping you establish a blueprint for your high school coursework, leading you to be career and/or college ready.

In the 2019-2020 school year, we have some exciting new additions to our course offerings that we would like to highlight. In addition to the traditional pathways available, West Allegheny High School has extended its partnership with the Community College of Allegheny County (CCAC) to provide a total of four certificate options and two associate degree options through our Early College in High School Academy (ECIHS). Participating students will now have an opportunity to earn a certificate in Mechatronics, Cybersecurity, Multimedia Game Simulation, or General Studies and an associate degree in Cybersecurity or Multimedia Programming, Simulation, and Gaming. While enrolled in these courses, a student will be building not only his/her West Allegheny High School transcript, but also a Community College of Allegheny County transcript, which will advance his/her post-secondary opportunities.

In closing, as you embark on this exciting journey, please remember your counselors, teachers and administrators are here to support you and your family as you make your course selections. We are available to answer your questions and guide you to take the courses that help you push yourself to learn new skills and prepare for your post-secondary endeavors. We look forward to assisting you in this process.

Sincerely,

*Katharine R. McClelland*

Academic Principal

# West Allegheny High School

## Graduation Credit Requirements

A minimum of 26.25 total credits, as outlined on the following pages, is required to be completed in grades 9-12. It is the student's and parent's responsibility to know the requirements for promotion and graduation and to make plans accordingly. The credits listed below are minimum requirements, however, students are encouraged to take additional credits and/or higher-level courses. *All students are required to schedule and maintain a minimum of 7.00 credits each academic year.*

### Minimum Credit Requirements for Promotion for All Students

In order to be promoted each year, students must pass a minimum number of credits. Listed below is the minimum total number of credits a student must have earned by the end of each grade to be promoted to the next grade level. Opportunities for credit recovery will be available during the summer at a cost to the student.

9	4.00
10	10.00
11	17.25
Graduation	26.25

These requirements are established by the Pennsylvania Department of Education and the West Allegheny School Board. Students and parents are reminded that ALL credits AND requirements must be satisfied upon the completion of a student's senior year to participate in commencement ceremonies. Throughout the following pages, courses may be denoted using one or more of the symbols below.

*	Course weighted on a 4.5 GPA scale
**	Course weighted on a 5.0 GPA scale
⌘	Course eligible for college credit through the Community College of Allegheny County as part of the Early College in High School Academy
⌘⌘	Awaiting final approval from CCAC
✓	Course eligible for industry based credential
<b>BOLD TYPE</b>	Course may count toward core course credit required for graduation – see the graduation requirements page for more information
<b>(S)</b>	Semester Course

## Full-time West Allegheny Students

Requirement Category	Minimum Credits	Minimum Course Requirements	4 <sup>th</sup> year Course Options
English	4	Academic English 9 or Pre-AP/Honors English 9* Academic English 10 or Pre-AP/Honors English 10* College Readiness English 11 or Career Readiness English 1 or AP English Language & Composition**⌘ College Readiness English 12 or Career Readiness English 2 or AP English Literature & Composition**⌘⌘	
Mathematics	4	Algebra I Geometry or Advanced Geometry Algebra II with Lab or Algebra II or Honors EC Algebra II**⌘	Trigonometry & Precalculus Honors Trigonometry & Precalculus* Discrete Math AP Statistics** Calculus AP Calculus** AP Computer Science Principles**⌘ AP Computer Science A**⌘ CHS Financial Accounting**
Science	4	Biology with Lab or Honors Biology with Lab* Conceptual Chemistry or Honors Chemistry* Conceptual Physics or Physics or AP Physics 1**⌘	AP Biology** AP Chemistry** AP Physics 2** Forensics Science Anatomy and Physiology** Principles of Biomedical Sciences** Human Body Systems** Medical Interventions** Digital Electronics** Environmental Sustainability** Civil Engineering and Architecture** Engineering Design and Development** Exercise Science
Social Studies	4	U.S. History or Honors U.S. History* American Government or AP U.S. Government & Politics**⌘ World Cultures or AP World History**	AP Psychology**⌘ AP Economics** Psychology and Sociology Comparative Religions (S) Holocaust & Genocide Studies (S) Sociology of Sports (S) Current Affairs (S) AP U.S. History (WAVA)** African American Studies (S - WAVA) Native American Studies: Contemporary Perspectives (S - WAVA) Women's Studies (S - WAVA) Advanced USMC Junior ROTC Spanish III Honors EC Spanish IV**⌘⌘ AP Spanish Language & Culture** French III (WAVA) French IV (WAVA)* AP French Language & Culture (WAVA) ** German III Honors EC German IV**⌘⌘ AP German Language & Culture** Mandarin Chinese III (WAVA) Game Production & Marketing**⌘
Elective	8.25		
Phys. Edu./Health	2.0 (.5 Health required)		
State Assessment	Proficient or Advanced on the Keystone Exams in Literature, Algebra I, and Biology OR Demonstration of proficiency through alternate pathway (found on page 6)		
Career Readiness	Successful completion of the Career and Education Work Standards Portfolio Successful completion of Industry Based Learning Experience (found on page 7)		
TOTAL Required	26.25		

## Parkway West CTC Students

Any student who enrolls in a program offered at Parkway West CTC for a minimum of three years, including the senior year, will be required to earn a minimum of three credits of mathematics, science, and social studies, as long as the student meets the minimum required courses for each core academic area. A student who chooses not to re-enroll in a Parkway West program he/she attended previously would default to requirements of a non-CTC student. This decision may result in the need to take more than one course in the core areas in a year, limiting elective options. *All students are required to schedule and maintain a minimum of 7.00 credits each academic year.*

Requirement Category	Minimum Credits	Minimum Course Requirements for All Students
<b>English</b>	4	Academic English 9 or Pre-AP/Honors English 9* Academic English 10 or Pre-AP/Honors English 10* College Readiness English 11 or Career Readiness English 1 or AP English Language & Composition** <del>Ⓢ</del> College Readiness English 12 or Career Readiness English 2 or AP English Literature & Composition** <del>Ⓢ</del> <del>Ⓢ</del>
<b>Mathematics</b>	3	Algebra I Geometry or Advanced Geometry Algebra II with Lab or Algebra II or Honors EC Algebra II** <del>Ⓢ</del>
<b>Science</b>	3	Biology with Lab or Honors Biology with Lab* Conceptual Chemistry or Honors Chemistry* Conceptual Physics or Physics or AP Physics 1** <del>Ⓢ</del>
<b>Social Studies</b>	3	U.S. History or Honors U.S. History* American Government or AP U.S. Government & Politics** <del>Ⓢ</del> World Cultures or AP World History**
<b>Elective (at Parkway CTC)</b>	11.25	
<b>Physical Education/Health</b>	2.0 (.5 Health required)	
<b>State Assessment</b>	Proficient or Advanced on the Keystone Exams in Literature, Algebra I, and Biology OR Demonstration of proficiency through alternate pathway (found on page 6)	
<b>Career Readiness</b>	Successful completion of the Career and Education Work Standards Portfolio Successful completion of Industry Based Learning Experience (found on page 7)	
<b>TOTAL</b>	26.25	

# State Assessment Graduation Requirement Pathways

In accordance with PA Act 158, West Allegheny School District has aligned its graduation requirements to ensure the future success of all of our students. All students will attempt the Algebra I, Biology, and Literature Keystone Exams upon completion of the aligned course for each exam. In the event that a student is not successful (after receiving the offered supplemental instruction) on a second attempt on an exam, students may meet the requirements through an alternate pathway. All pathways to fulfill the state assessment graduation requirement are listed below.

**I. Demonstrate proficiency on the Keystone Exam in Algebra I, Biology, and Literature**

- A student earns a minimum score of proficient (1500) on each of the three (3) Keystone Exams – Algebra I, Biology, and Literature.
- A student earns a minimum composite score as set by Pennsylvania Department of Education. The composite score must be earned across the three (3) Keystone Exams, with at least one score of proficient or advanced on any Keystone Exam and no less than basic earned on the other two Keystone Exams.

**II. Career Readiness (for students attending Parkway CTC)**

- Successful completion of courses aligned to each of the three (3) Keystone Exams

Algebra I	Biology	Literature
Algebra I Conceptual Algebra I	Honors Biology Biology	Pre-AP/Honors English 10 Academic English 10 English 10

- One (1) of the following
  - Earning an approved Industry Based Credential in his/her program
  - High likelihood of success on an approved industry-based competency assessment (achievement on the pre-NOCTI exam) or readiness for continued meaningful engagement in the aligned CTE area

**III. Course Based Achievement**

- Passing the courses aligned to each of the three (3) Keystone Exams *and one of the following pathways*

Algebra I	Biology	Literature
Algebra I Conceptual Algebra I	Honors Biology Biology	Pre-AP/Honors English 10 Academic English 10 English 10

- **Pathway 1**
  - Meeting the published college readiness benchmark on the PSATs or SATs or ACTs or ASVABs or Earning a 2 or higher on the Advanced Placement Exam for a corresponding content area

Algebra I	Biology	Literature
AP Calculus AB AP Statistics AP Computer Science Principles AP Computer Science A	AP Biology	AP English Language and Composition

- **Pathway 2**
  - Passing a concurrent/dual enrollment course through the Early College in High School Academy or CCBC Aviation Academy
  - Earning proficiency on at least one (1) of the Keystone Exams

*On an individual basis, other alternatives may be considered with administrative approval*

# Career Readiness Graduation Requirement

## I. Successful completion of the Career Education and Work Standards Portfolio

As a measure of Future Ready PA reporting, Pennsylvania schools are accountable for ensuring every student meets Career Education and Work (CEW) Academic Standards as established in PA Code Chapter 4. In alignment with our goal of ensuring career and college readiness for every student, West Allegheny continues to provide our students with experiences in Career Awareness and Preparation (13.1), Career Acquisition (13.2), Career Retention and Advancement (13.3), and Entrepreneurship (13.4). Throughout a student’s years at West Allegheny he/she will participate in multiple learning experiences designed to meet one or more of the CEW Standards. The culmination of these experiences will result in a comprehensive Career and Education Work Standards Portfolio for each student, finalized during the Career Seminar course, typically during a student’s junior year.

By the end of 11<sup>th</sup> grade, students must:

- Have a minimum of eight (8) pieces of evidence (at least two per grade level)
- Address each career strand (13.1, 13.2, 13.3, 13.4) at least once
- Include at least two pieces of evidence that demonstrate implementation of the student’s individualized career plan

School sponsored activities designed as part of our comprehensive career education and work curriculum include:

Grade Level	Activity Description
9	CCAC Field Trip
9	Freshmen Transition Program Activities
9	Career Exploration and Group Job Shadow Day
10	PSU Beaver/RMU Field Trip
10	Student Services Lesson: Leadership Inventory
11	WA Career & College Fair
11	Choosing Wisely: Academic Planning and Career and College Pathways
11	Completed Curriculum Vitae as Culminating Project in Career Seminar & CEW Standards Portfolio
9-12	Evidence of successful completion of one of the Industry Based Learning Indicators as described below

These examples are provided as a guide and are subject to change and/or modification. Students who do not participate in the aligned activities and/or complete the associated assignments will be required to complete additional or alternate assignments to meet the corresponding standard strands.

## II. Successful completion of Industry Based Learning Indicator by completing one (1) of the following

1. Demonstrated of a high likelihood of success on the NOCTI assessment administered through Parkway West Career & Technology Center as measured by the pre-NOCTI scores and/or successful completion of assigned program objectives
2. Earned an approved industry recognized credential aligned with his/her career path (e.g. CPR Certification – Exercise Science & Principles of Biomedical Science, Security Pro – Principles of Information Security)
3. Participated in a school approved career mentoring experience (e.g. Future Educators of America, Child Development, JROTC)
4. Participated in a substantial service learning experience offered through the school and in partnership with an approved outside agency (e.g. Stand Together, Peer to Peer Empowerment, SADD, Varsity iLead)
5. Completed a work-based learning experience through three (3) job shadow experiences
  - Students in the class of 2020 and 2021 will be required to complete three (3) total job shadow experiences before graduation
  - Starting with the class of 2022, students will complete a
    - Freshmen group job shadow experience arranged by the school
    - Sophomore job shadow experience *arranged by the student/family with assistance from the school upon request*
    - Junior job shadow experience *arranged by the student/family with assistance from the school upon request*

# Grading Scale

The West Allegheny School District utilizes the following grading scale. Quarterly report cards will designate student letter and percentage grades. Student transcripts will only reflect a student’s final letter grade for each course. Courses graded as Pass/Fail will be designated with a P or F on both report cards and transcripts.

- |                 |                                                                                                                                                                              |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A 90 – 100%     | <b>P</b> - Pass                                                                                                                                                              |
| B 80 – 89%      | <b>F</b> - Fail                                                                                                                                                              |
| C 70 – 79%      | <b>I</b> - Incomplete (awarded in special circumstances only)                                                                                                                |
| D 60 – 69%      | <b>M</b> - Medical (for physical education only)                                                                                                                             |
| F 59% and below | <b>X</b> - Missing a major component of the course that <b>MUST</b> be completed to potentially pass the class. Seniors with an X grade will not be eligible for graduation. |

## Grade Point Values / Weighted Grades

Grade Point Average (GPA) will be calculated at the end of each marking period and will be printed on the official transcript. Post-secondary institutions often use the combination of the student’s GPA and score on the SAT or ACT along with other selection criteria unique to the institution in making admissions decisions.

West Allegheny High School utilizes a three-tiered point system for weighting classes. Students who earn a letter grade of “A,” “B,” or “C” in a weighted course will be awarded additional grade points per grading period. The final letter grade will remain the same; only the grade points will change.

The tables below represent the weighted and non-weighted point values for all full credit courses and courses with a lab. Only the point values increase, the credit for each course remains the same. Additionally, the point values are lower for courses that are not a full credit.

Percentages	Grade	AP, CHS, ECIHSA, Honors EC, & PLTW Courses	Other Pre- AP/Honors Courses	All Other Courses
90-100	A	5.00	4.50	4.00
80-89	B	4.00	3.50	3.00
70-79	C	3.00	2.50	2.00
60-69	D	1.00	1.00	1.00
0-59	F	0	0	0

Percentages	Grade	AP, CHS, ECIHSA, Honors EC, & PLTW Courses	Other Pre- AP/Honors Courses	All Other Courses With a Lab
90-100	A	7.50	6.75	6.00
80-89	B	6.00	5.25	4.50
70-79	C	4.50	3.75	3.00
60-69	D	1.50	1.50	1.50
0-59	F	0	0	0

- AP – Advanced Placement
- CHS – College in High School
- ECIHSA – Early College in High School Academy
- Honors EC – Honors Early College
- PLTW – Project Lead The Way

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# Weighted Courses

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## Advanced Placement (AP): Weighted on a 5.0 scale

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The Advanced Placement (AP) Program is a nationally recognized rigorous curriculum sponsored by the College Board. The AP Program provides an opportunity for high school students to choose college level courses and receive undergraduate college credits or advanced standing if their AP Exam scores qualify. Over 90% of colleges in the United States give credit or provide advanced standing to students whose AP Exam scores are acceptable. Please visit [CollegeBoard's AP Credit Policy website](#) to view policies regarding colleges awarding credit for AP Exam scores.

AP students will be required to take the AP Exam in May for each corresponding AP course in which they are enrolled. There is no cost to the student to take these exams. If for any reason, however, a student refuses to take any AP Exam(s) for which he/she is registered, the student will be entirely responsible for the cost of the exam of approximately \$95 plus any additional unused exam fees to West Allegheny School District. Additional fees apply to AP Capstone Seminar and Research Exams in the event that a student refuses to take either of those exams. In addition to student responsibility for these fees, if an AP Exam is not taken, the AP designation will be removed from the corresponding course on the student's transcript and the course weight will be dropped to the 4.5 weighted scale.

West Allegheny High School prepares students for Advanced Placement (AP) Exams in the subjects listed below. Courses in *italicized type* may be taken by students in their sophomore year of high school. Additionally, students who elect to participate in the AP Capstone program have the opportunity to earn the AP Capstone Diploma or AP Seminar & Research Certificate. More information about both of these opportunities can be found on subsequent pages.

### AP Capstone

*AP Seminar*  
*AP Research*

### Arts

*AP Studio Art: Drawing*

### English

*AP English Language & Composition*  
*AP English Literature & Composition*

### History and Social Sciences

*AP U.S. Government & Politics*  
*AP Economics (Macro)*  
*AP Psychology*  
*AP United States History (WAVA only)*  
*AP World History*

### STEM

*AP Biology*  
*AP Calculus AB*  
*AP Chemistry*  
*AP Computer Science A*  
*AP Computer Science Principles*  
*AP Physics 1*  
*AP Physics 2*  
*AP Statistics*

### World Language

*AP French Language & Culture (WAVA ONLY)*  
*AP German Language & Culture*  
*AP Spanish Language & Culture*

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## College in High School (CHS): Weighted on a 5.0 scale

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College in High School programs are offered in conjunction with local colleges. These programs enable high school students to build skills and get a head start on college.

### CHS

*CHS Financial Accounting*

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# Weighted Courses

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## Early College in High School Academy (ECIHS): Weighted on a 5.0 scale

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West Allegheny High School has partnered with the Community College of Allegheny County to offer a concurrent enrollment program that allows students the opportunity to earn college credits through courses taught at the high school by West Allegheny teachers. The Early College in High School Academy (ECIHS) offers four programs – Cybersecurity, Multimedia Games Simulation, Mechatronics Technology, and General Studies. In total, West Allegheny provides the opportunity through 30 courses for students to complete up to 48 CCAC courses allowing for up to 150 credits to be earned through concurrent enrollment.

### Cybersecurity

Introduction to Cybersecurity  
Principles of Information Security (*New for 2019-20*)  
Computer Forensics with Intrusion Detection & Prevention  
(*New for 2019-20*)  
Criminal Justice & Investigations (*New for 2019-20*)  
Advanced Cybersecurity Topics (*New for 2020-21*)  
Intro to Data Analytics with Python (*New for 2020-21*)

### Mechatronics Technology

Manufacturing I  
Digital Electronics  
Home Systems (*New for 2019-20*)  
Fluid Robotics (*New for 2020-21*)  
Programming Logic Controllers (*New for 2020-21*)

### Multimedia Games Simulation

Introduction to Game Design & Web Development  
Developing Multimedia Websites  
3D Game Development  
3D Modeling  
Game Production & Marketing  
Virtual Reality (*New for 2020-21*)

### General Studies

Honors EC Algebra II  
AP U.S. Government & Politics  
AP Psychology  
AP English Language & Composition  
AP English Literature & Composition\*  
Oral Communications & Interpretation (*New for 2019-20*)  
AP Physics 1  
AP Computer Science Principles  
AP Computer Science A  
Programming in C & C++ (*New for 2020-21*)  
Honors EC Art IV\*  
Honors EC German IV\*  
Honors EC Spanish IV\*

*\* pending CCAC final approval*

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## Project Lead The Way: Weighted on a 5.0 scale

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Project Lead The Way provides a comprehensive approach to STEM (science, technology, engineering, mathematics) Education. Through activity-based, project-based, and problem-based curriculum, PLTW gives students a chance to apply what they know, identify problems, find unique solutions, and lead their own learning.

### Engineering Program

Introduction to Engineering Design  
Principles of Engineering  
Environmental Sustainability  
Civil Engineering & Architecture  
Engineering Design & Development – Capstone Course

### Biomedical Sciences Program

Principles of Biomedical Science  
Human Body Systems  
Medical Interventions

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## Additional Weighted Courses: Weighted on a 4.5 scale

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### English

Pre-AP/Honors English 9  
Pre-AP/Honors English 10

### History and Social Sciences

Honors U.S. History

### STEM

Honors Biology  
Honors Chemistry  
Anatomy & Physiology  
Honors Trigonometry & Precalculus

### World Languages

Mandarin Chinese III (WAVA ONLY)  
French IV (WAVA ONLY)

# National Honor Society Membership

Students in their junior and/or senior year meeting the following academic and community service criteria may be considered eligible for acceptance into the West Allegheny High School Chapter of the National Honor Society. An eligibility review for juniors and seniors will be conducted sometime after the first grading period of each school year. Those students meeting the criteria will be invited to apply for National Honor Society membership. Only students who both meet the initial eligibility criteria and successfully complete the application process will be inducted into the West Allegheny High School Chapter of the National Honor Society.

Once inducted, West Allegheny High School National Honor Society members are required to maintain the minimum required cumulative grade point average, maintain any required course levels, and complete an additional 30 hours of community service, which must include National Honor Society events and fundraisers.

National Honor Society is based on four pillars: Scholarship, Service, Leadership, and Character. Both applying and inducted students must demonstrate each of these pillars to an exemplary degree.

NHS Pillars		Initial Eligibility Review	Students with a cumulative 3.75 – 3.99 Grade Point Average at Time of Eligibility Review	Students with a cumulative 4.0 or higher Grade Point Average at Time of Eligibility Review
Scholarship	9 <sup>th</sup> Grade		Minimum of 2 Honors, ECIHSA or Honors EC level courses	No specific course requirements
	10 <sup>th</sup> Grade		Minimum of 2 AP, Honors, ECIHSA or Honors EC level courses	No specific course requirements
	11 <sup>th</sup> Grade		Minimum of 2 AP, ECIHSA or Honors EC, CHS, or PLTW courses	No specific course requirements
	12 <sup>th</sup> Grade		Minimum of 2 AP, ECIHSA or Honors EC, CHS, or PLTW courses	No specific course requirements
NHS Pillar	Application Review	All Students Applying		
Service & Leadership	Application	Completed application including documentation of activities and 10 community service hours		
Scholarship	Academic Recommendation	Letter of recommendation completed by a core subject teacher		
Character	Personal Recommendations (2)	Two recommendation forms completed by a non-relative teacher, coach, employer, religious leader, or any other person who knows the student outside of the school setting		
	Discipline Review	Student must not have had any violations of school policy resulting in in-school or out-of-school suspension		

AP – Advanced Placement  
 CHS – College in High School  
 ECIHSA – Early College in High School Academy  
 Honors EC – Honors Early College  
 PLTW – Project Lead The Way

# NCAA ELIGIBILITY CENTER QUICK REFERENCE GUIDE



## NCAA Division I Initial-Eligibility Requirements

### **Core Courses: (16)**

- **Initial full-time collegiate enrollment *before* August 1, 2016:**
  - **Sixteen (16) core courses** are required (see chart below for subject-area requirements).
- **Initial full-time collegiate enrollment *on or after* August 1, 2016:**
  - **Sixteen (16) core courses** are required (see chart below for subject-area requirements).
    - Ten (10) core courses completed before the seventh semester; seven (7) of the 10 must be in English, math or natural/physical science.
      - These courses/grades are "locked in" at start of the seventh semester (cannot be repeated for grade-point average [GPA] improvement to meet initial-eligibility requirements for competition).
  - *Students who do not meet core-course progression requirements may still be eligible to receive athletics aid and practice in the initial year of enrollment by meeting academic redshirt requirements (see below).*

### **Test Scores: (ACT/SAT)**

- Students must present a corresponding test score and core-course GPA on the sliding scale (see Page No. 2).
  - **SAT:** critical reading and math sections.
    - Best subscore from each section is used to determine the SAT *combined* score for initial eligibility.
  - **ACT:** English, math, reading and science sections.
    - Best subscore from each section is used to determine the ACT *sum* score for initial eligibility.
- All ACT and SAT attempts *before* initial full-time collegiate enrollment may be used for initial eligibility.
- **Enter 9999 during ACT or SAT registration to ensure the testing agency reports your score directly to the NCAA Eligibility Center. Test scores on transcripts will not be used.**

### **Core Grade-Point Average:**

- Only *core courses* that appear on the high school's List of NCAA Courses on the NCAA Eligibility Center's website ([www.eligibilitycenter.org](http://www.eligibilitycenter.org)) will be used to calculate your core-course GPA. Use this list as a guide.
- **Initial full-time collegiate enrollment *before* August 1, 2016:**
  - Students must present a corresponding test score (ACT sum score or SAT combined score) and core-course GPA (minimum 2.000) on Sliding Scale A (see Page No. 2).
  - Core-course GPA is calculated using the **best 16 core courses** that meet subject-area requirements.
- **Initial full-time collegiate enrollment *on or after* August 1, 2016:**
  - Students must present a corresponding test score (ACT sum score or SAT combined score) and core-course GPA (minimum 2.300) on Sliding Scale B (see Page No. 2).
  - Core-course GPA is calculated using the **best 16 core courses** that meet both progression (10 before seventh semester; seven in English, math or science; "locked in") and subject-area requirements.

<b>DIVISION I Core-Course Requirement (16)</b>	
4	years of English
3	years of math (Algebra I or higher)
2	years of natural/physical science (1 year of lab if offered)
1	year of additional English, math or natural/physical science
2	years of social science
4	years of additional courses (any area above, foreign language or comparative religion/philosophy)

<b>DIVISION I – 2016 Qualifier Requirements</b>	
<i>*Athletics aid, practice, and competition</i>	
•	16 core courses <ul style="list-style-type: none"> <li>○ Ten (10) core courses completed before the start of seventh semester. Seven (7) of the 10 must be in English, math or natural/physical science.               <ul style="list-style-type: none"> <li>▪ "Locked in" for core-course GPA calculation.</li> </ul> </li> </ul>
•	Corresponding test score (ACT sum score or SAT combined score) and core-course GPA (minimum 2.300) on Sliding Scale B (see Page No. 2).
•	Graduate from high school.

<b>DIVISION I – 2016 Academic Redshirt Requirements</b>	
<i>*Athletics aid and practice (no competition)</i>	
•	16 core courses <ul style="list-style-type: none"> <li>○ No grades/credits "locked in" (repeated courses after the seventh semester begins may be used for initial eligibility).</li> </ul>
•	Corresponding test score (ACT sum score or SAT combined score) and core-course GPA (minimum 2.000) on Sliding Scale B (see Page No. 2).
•	Graduate from high school.

<b>Sliding Scale A</b>		
<i>Use for Division I prior to August 1, 2016</i>		
<b>NCAA DIVISION I SLIDING SCALE</b>		
<b>Core GPA</b>	<b>SAT</b>	<b>ACT Sum</b>
	<small>Verbal and Math ONLY</small>	
3.550 & above	400	37
3.525	410	38
3.500	420	39
3.475	430	40
3.450	440	41
3.425	450	41
3.400	460	42
3.375	470	42
3.350	480	43
3.325	490	44
3.300	500	44
3.275	510	45
3.250	520	46
3.225	530	46
3.200	540	47
3.175	550	47
3.150	560	48
3.125	570	49
3.100	580	49
3.075	590	50
3.050	600	50
3.025	610	51
3.000	620	52
2.975	630	52
2.950	640	53
2.925	650	53
2.900	660	54
2.875	670	55
2.850	680	56
2.825	690	56
2.800	700	57
2.775	710	58
2.750	720	59
2.725	730	59
2.700	730	60
2.675	740-750	61
2.650	760	62
2.625	770	63
2.600	780	64
2.575	790	65
2.550	800	66
2.525	810	67
2.500	820	68
2.475	830	69
2.450	840-850	70
2.425	860	70
2.400	860	71
2.375	870	72
2.350	880	73
2.325	890	74
2.300	900	75
2.275	910	76
2.250	920	77
2.225	930	78
2.200	940	79
2.175	950	80
2.150	960	80
2.125	960	81
2.100	970	82
2.075	980	83
2.050	990	84
2.025	1000	85
2.000	1010	86

<b>Sliding Scale B</b>		
<i>Use for Division I beginning August 1, 2016</i>		
<b>NCAA DIVISION I SLIDING SCALE</b>		
<b>Core GPA</b>	<b>SAT</b>	<b>ACT Sum</b>
	<small>Verbal and Math ONLY</small>	
3.550	400	37
3.525	410	38
3.500	420	39
3.475	430	40
3.450	440	41
3.425	450	41
3.400	460	42
3.375	470	42
3.350	480	43
3.325	490	44
3.300	500	44
3.275	510	45
3.250	520	46
3.225	530	46
3.200	540	47
3.175	550	47
3.150	560	48
3.125	570	49
3.100	580	49
3.075	590	50
3.050	600	50
3.025	610	51
3.000	620	52
2.975	630	52
2.950	640	53
2.925	650	53
2.900	660	54
2.875	670	55
2.850	680	56
2.825	690	56
2.800	700	57
2.775	710	58
2.750	720	59
2.725	730	60
2.700	740	61
2.675	750	61
2.650	760	62
2.625	770	63
2.600	780	64
2.575	790	65
2.550	800	66
2.525	810	67
2.500	820	68
2.475	830	69
2.450	840	70
2.425	850	70
2.400	860	71
2.375	870	72
2.350	880	73
2.325	890	74
2.300	900	75
2.299	910	76
2.275	910	76
2.250	920	77
2.225	930	78
2.200	940	79
2.175	950	80
2.150	960	81
2.125	970	82
2.100	980	83
2.075	990	84
2.050	1000	85
2.025	1010	86
2.000	1020	86

For more information, visit [www.eligibilitycenter.org](http://www.eligibilitycenter.org) or [www.2point3.org](http://www.2point3.org).

# NCAA ELIGIBILITY CENTER QUICK REFERENCE GUIDE



## Division II Initial-Eligibility Requirements

### Core Courses

- **Division II currently requires 16 core courses.** See the chart below.
- **Beginning August 1, 2018**, to become a full or partial qualifier for Division II, all college-bound student-athletes must complete the 16 core-course requirement.

### Test Scores

- **Division II** currently requires a minimum SAT score of 820 or an ACT sum score of 68. **Beginning August 1, 2018**, Division II will use a sliding scale to match test scores and core-course grade-point averages (GPA). The sliding scale for those requirements is shown on Page No. 2 of this sheet.
- The SAT score used for NCAA purposes includes **only** the critical reading and math sections. The writing section of the SAT is not used.
- The ACT score used for NCAA purposes is a **sum** of the following four sections: English, mathematics, reading and science.
- **When you register for the SAT or ACT, use the NCAA Eligibility Center code of 9999 to ensure all SAT and ACT scores are reported directly to the NCAA Eligibility Center from the testing agency. Test scores that appear on transcripts will not be used.**

### Grade-Point Average

- Be sure to look at your high school's List of NCAA Courses on the NCAA Eligibility Center's website ([www.eligibilitycenter.org](http://www.eligibilitycenter.org)). Only courses that appear on your school's approved List of NCAA Courses will be used in the calculation of the core GPA. Use the list as a guide.
- The current **Division II** core GPA requirement is a minimum of 2.000. **Division II** core GPA required to be eligible for competition on or after August 1, 2018, is 2.200 (corresponding test-score requirements are listed on the Sliding Scale on Page No. 2 of this sheet).
- The minimum **Division II** core GPA required to receive athletics aid and practice as a partial qualifier on or after August 1, 2018, is 2.000 (corresponding test-score requirements are listed on the Sliding Scale on Page No. 2 of this sheet).
- Remember, the NCAA core GPA is calculated using NCAA core courses only.

#### **DIVISION II 16 Core Courses**

- 3 years of English.
- 2 years of mathematics (Algebra I or higher).
- 2 years of natural/physical science (1 year of lab if offered by high school).
- 3 years of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 4 years of additional courses (from any area above, foreign language or comparative religion/philosophy).

<b>DIVISION II COMPETITION SLIDING SCALE</b>		
<i>Use for Division II beginning August 1, 2018</i>		
<b>Core GPA</b>	<b>SAT</b> Verbal and Math ONLY	<b>ACT Sum</b>
3.300 & above	400	37
3.275	410	38
3.250	420	39
3.225	430	40
3.200	440	41
3.175	450	41
3.150	460	42
3.125	470	42
3.100	480	43
3.075	490	44
3.050	500	44
3.025	510	45
3.000	520	46
2.975	530	46
2.950	540	47
2.925	550	47
2.900	560	48
2.875	570	49
2.850	580	49
2.825	590	50
2.800	600	50
2.775	610	51
2.750	620	52
2.725	630	52
2.700	640	53
2.675	650	53
2.650	660	54
2.625	670	55
2.600	680	56
2.575	690	56
2.550	700	57
2.525	710	58
2.500	720	59
2.475	730	60
2.450	740	61
2.425	750	61
2.400	760	62
2.375	770	63
2.350	780	64
2.325	790	65
2.300	800	66
2.275	810	67
2.250	820	68
2.225	830	69
2.200	840 & above	70 & above

<b>DIVISION II PARTIAL QUALIFIER SLIDING SCALE</b>		
<i>Use for Division II beginning August 1, 2018</i>		
<b>Core GPA</b>	<b>SAT</b> Verbal and Math ONLY	<b>ACT Sum</b>
3.050 & above	400	37
3.025	410	38
3.000	420	39
2.975	430	40
2.950	440	41
2.925	450	41
2.900	460	42
2.875	470	42
2.850	480	43
2.825	490	44
2.800	500	44
2.775	510	45
2.750	520	46
2.725	530	46
2.700	540	47
2.675	550	47
2.650	560	48
2.625	570	49
2.600	580	49
2.575	590	50
2.550	600	50
2.525	610	51
2.500	620	52
2.475	630	52
2.450	640	53
2.425	650	53
2.400	660	54
2.375	670	55
2.350	680	56
2.325	690	56
2.300	700	57
2.275	710	58
2.250	720	59
2.225	730	60
2.200	740	61
2.175	750	61
2.150	760	62
2.125	770	63
2.100	780	64
2.075	790	65
2.050	800	66
2.025	810	67
2.000	820 & above	68 & above

For more information, visit the NCAA Eligibility Center website at [www.eligibilitycenter.org](http://www.eligibilitycenter.org).

# NCAA College Freshmen Eligibility

College-bound student-athletes who want to compete in NCAA sports at a Division I or II school need to meet certain division-wide academic and amateurism requirements. Students who plan to attend a Division III school need to meet the eligibility requirements of the school they plan to attend. In general, for Division I and II initial eligibility, a student must take **16** specific core classes as well as meeting specific GPA and SAT or ACT score requirements. It is the student's responsibility to review specific NCAA policies to be sure that the student is taking the correct classes and fulfilling additional requirements. More information can be found at [www.ncaa.org/student-athletes](http://www.ncaa.org/student-athletes).

## NCAA Approved Core-Courses at West Allegheny

### ENGLISH

Academic English 9  
Pre-AP/Honors English 9  
English 10 Acceleration  
Academic English 10  
Pre-AP/Honors English 10  
College Readiness English 11  
AP English Language & Composition  
College Readiness English 12  
AP English Literature & Composition

### SOCIAL SCIENCE

U.S. History 9  
U.S. History  
Honors U.S. History  
American Government  
AP Government and Politics  
World Cultures  
AP World History  
AP Psychology  
AP Economics  
Psychology/Sociology  
Comparative Religions  
Holocaust and Genocide Studies  
Current Affairs

### MATHEMATICS

Algebra I  
Geometry  
Advanced Geometry  
Algebra II  
Algebra II with Lab  
Honors Algebra II  
Trigonometry/Precalculus  
Honors Trigonometry/  
Precalculus  
Discrete Math  
Calculus  
AP Calculus AB  
AP Statistics

### NATURAL AND PHYSICAL SCIENCE

Biology with Lab  
Honors Biology with Lab  
AP Biology  
Conceptual Chemistry  
Honors Chemistry with Lab  
AP Chemistry  
Conceptual Physics  
Physics  
Forensic Science  
AP Physics 1  
AP Physics 2  
Anatomy and Physiology  
Principles of the Biomedical Sciences  
Human Body Systems  
Medical Interventions

### ADDITIONAL CORE COURSES

American Sign Language I  
American Sign Language II  
German I  
German II  
German III  
German IV  
AP German Language & Culture  
Spanish I  
Spanish II  
Spanish III  
Spanish IV  
AP Spanish Language & Culture

### DISCONTINUED AND RENAMED COURSES

**The courses listed below are no longer offered or have been renamed. However, they may have been taken by students in the class of 2020 and would still be considered core courses for those students.**

Creative Writing  
English 9 Acceleration  
English 9  
Honors English 9  
English 10 Acceleration  
Geometry Block  
Geometry w/Lab  
Honors American Government  
Honors Comparative Religions  
Honors Holocaust and Genocide Studies  
Honors Psychology  
Intro to Psychology  
Honors Sociology  
Trigonometry  
Public Speaking

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## Recognition of Graduates

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West Allegheny High School seniors will be recognized with the following distinctions for graduation:

- **Distinguished Honors and Summa Cum Laude:** Students who have achieved a 4.0 Grade Point Average (GPA) or higher and are in the top 10% of their class.
- **Summa Cum Laude:** Students who have achieved a 4.0 GPA or higher but are not in the top 10% of the class.
- **Magna Cum Laude:** Students who have achieved a 3.99 to 3.5 GPA.
- **Cum Laude:** Students who achieved a 3.49 to 3.0 GPA.

These distinctions are based on the student's final cumulative GPA for all four years of high school. A student's GPA is not rounded up when determining graduate recognition. For example, a 3.99 does not round up to a 4.00 and so on.

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## Commencement Speaker

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All students who are potential Distinguished Honors Graduates as of the middle of the 3<sup>rd</sup> marking period of the senior year will be eligible to submit a speech to present at the commencement ceremony. One commencement speaker and one alternate speaker will be chosen by an impartial committee from all speeches submitted. The speaker selected must maintain Distinguished Honors Graduate status once the final cumulative GPA is posted. If the selected speaker does not maintain Distinguished Honors Graduate status, the alternate speaker will deliver the commencement speech provided that student has maintained Distinguished Honors Graduate status. Only one student speech will be delivered at commencement unless determined otherwise by the committee.

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# **Schedule Change Procedures**

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## **Scheduling Philosophy**

West Allegheny High School offers a comprehensive educational program to meet the needs and interests of all students. The master schedule is developed from course requests submitted at the start of the second semester and is finalized in the late spring/early summer in order to set student and teacher schedules.

There is always the possibility that a class will close early due to heavy enrollment or that a class will not be scheduled due to an insufficient number of students electing that subject. Counselors meet with students and teachers to give input and recommendations as students are making their selections.

**NO schedule changes will be granted to allow students to change class periods or teachers for any course at any time.**

**Requests to change lunch period will only be considered for medical reasons and may require a note from a physician.**

**Extenuating circumstances sometimes arise that may necessitate the need to consider a change. All extenuating circumstances will be reviewed by an administrator on a case-by-case basis.**

## **Summer 2019 Schedule Change Requests**

1. ALL schedule change requests for the 2019-2020 school year require a parent signature and must be submitted to the high school Guidance Office via the official schedule change request form by Monday, June 17, 2019.
2. After June 17, 2019 no schedule change requests will be considered until the first day of school.

## **2019-2020 School Year Schedule Change Procedures**

### **Elective Change Procedure**

1. Elective CHANGE REQUESTS for full year and first semester courses will be considered for the first 6-day rotation of the school year **ONLY**. Second semester elective change requests will be considered for the first 6-days of the second semester. Elective change requests require a parent signature and must be submitted to the high school Guidance Office via the official schedule change request form. Approval of the change does not guarantee that a change can be made. Changes will be made **ONLY** if they do not overload **ANY** other classes.
2. If the original elective course is dropped within this timeframe, it will **NOT** appear on the student's transcript.
3. Students are responsible for making up any missed work in the new elective course.

## Academic Level Change Procedures

1. Academic level CHANGE REQUESTS to move to a **higher** level course will be considered from the first day of school through the 12<sup>th</sup> day of school.
2. Academic level CHANGE REQUESTS to move to a **lower** level course will be considered after the 12<sup>th</sup> day of the course until the midterm of the first marking period and will require administrative approval. Please be aware that **in the event that an ACADEMIC LEVEL change is approved, the original course WILL appear on the student's transcript with a "W". "W" grade marks do not affect a student's GPA.** Students are responsible for making up any missed work in the new course.
3. Students are required to work to their fullest potential prior to making a request for any schedule change. Students must demonstrate that they have attempted to fulfill all course expectations, e.g., completion of all assignments, seeking extra help, and have met all other conditions established by the teacher.
4. No academic level change will be considered without teacher input. If both the teacher and parent agree to the change, it will be considered. When a teacher determines it is in the student's best interest to remain in the course, a parent conference will be held before any further consideration is given to the request. Some changes may require administrative approval.
5. All academic level change requests require a parent signature and must be submitted to the high school Guidance Office via the official schedule change request form. Approval of the change does not guarantee that a change can be made. Changes will be made **ONLY** if they do not overload **ANY** other classes.

## Dropping Courses

- Students must exercise caution before dropping courses to ensure that graduation, future goal, and NCAA requirements (when eligible) are being met.
  - Students must maintain a minimum of 7.00 credits per year unless otherwise permitted by a Principal through an approved academic plan.
1. During the first nine weeks of school, students may request to drop a course. **IF the request is approved, the original course will remain on the student's transcript with a "W", but the "W" will not affect the student's GPA. Dropping a course requires administrative approval.**
  2. After the first nine weeks of school through the end of the year, students may request to drop a course. **IF the request is approved, the student will receive a grade of "WF" for Withdrawal/Fail in the original course. The "WF" will be averaged into the student's GPA as a failing grade. Dropping a course requires administrative approval.**
  3. All requests to drop a course require a parent signature and must be submitted to the high school Guidance Office via the official schedule change request form. **Dropping a course requires administrative approval.**

## Repeating Courses

1. Students repeating a class that they failed will get credit upon successful completion of the repeating class. Both the failing grade and passing grade will show on the student's transcript and will be averaged into the GPA.
2. A student who chooses to repeat a course that was passed will have both courses shown on his/her transcript and both grades averaged into the GPA. The second successful attempt will count as an elective credit toward West Allegheny graduation requirements.

# West Allegheny High School Career and College Pathways

*Career and College Pathways* are designed to help focus student course selections and connect students to a viable career and/or a post-secondary program of study. Each student will identify with one or more concentration area, based on individual interests and skills, post-secondary goals, and potential career aspirations. Over the next few pages, information regarding the aligned Holland codes and career clusters will help inform students and parents in course selection. Within each Career and College Pathway concentration area potential career options and recommended courses will help student focus course selections.

In addition to students accessing the Holland codes via this program of studies, students will also be exposed to different careers through lessons facilitated by the school counselors at each grade level using Naviance Family Connection (information about Naviance can be found on the following pages). Students will be provided opportunities to explore resources and interests as well as reflect on experiences that may help the student select the best pathway for him/her. It is our belief that students should exercise choice and flexibility, both within and among the pathways, to navigate a well-rounded foundation and experience a plethora of curricular options related to each specified Career and College Pathway.

Throughout the course descriptions, one or more of the icons below will be found below the title of each course. The presence of an icon means that the course work is in some way, either directly or indirectly, connected to that Career and College Pathways concentration area. It is acceptable for students to explore a variety of content areas and interests. The designation of a particular concentration area is not meant to limit one's choices. Instead, the icons provide a way to think about how course work in high school can be a springboard to future opportunities.



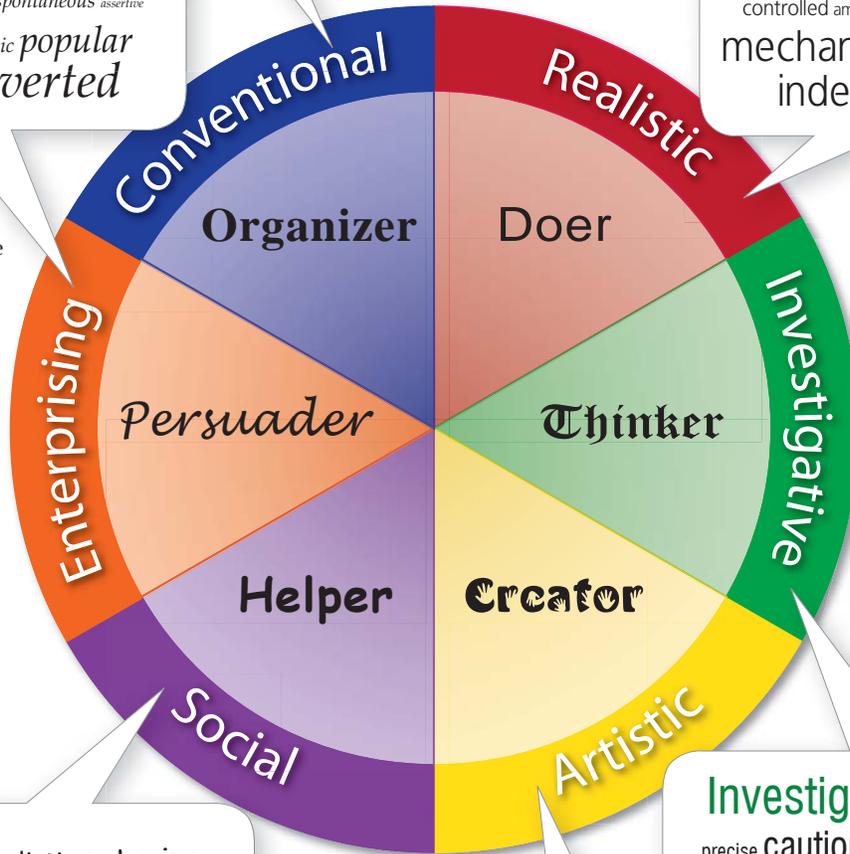
# Holland Codes

It's all about YOU!

**Conventional** well-organized accurate  
 numerically-inclined **methodical** efficient  
 orderly thrifty **structured** ambitious persistent conscientious  
 conforming **practical** systematic **polite** obedient

**Enterprising** self-confident **Sociable**  
 enthusiastic **adventurous** **impulsive**  
**inquisitive** talkative **spontaneous** assertive  
**persuasive** energetic **popular**  
 ambitious optimistic **extroverted**

**Realistic** practical **frank**  
 nature lover **curious** **concrete** self-  
 controlled ambitious **persistent** athletic  
**mechanical** thrifty **stable** reserved  
 independent systematic



John L. Holland was the person who developed the theory that people can be described by a combination of six personality types. The theory proposed that people seek out work environments that match their personality type. A better match means more job satisfaction, because the person finds the job interesting.

Take a look at the words describing each of the six personality types. How many of these words describe you?

You'll probably find words that describe you in each list. But usually there are two or three with lots of words that make you say, "That's ME!"

Take the quiz on the next page to identify your personality type, also known as your interest profile. Match your interest profile with the interest profiles of occupations in the Career Planning Table. Jobs that match your interests will be a better career choice for you.

**Social** friendly **idealistic** **outgoing**  
 cooperative **responsible** **kind** persuasive  
 patient **helpful** insightful understanding  
 generous **forgiving** empathetic

**Investigative** inquisitive **scientific**  
 precise **cautious** self-confident **reserved**  
 independent **analytical** observant scholarly  
 curious introspective broad-minded **logical**

**Artistic** creative **imaginative** unconventional  
 independent **original** impulsive **courageous** complicated  
 nonconforming intuitive innovative emotional **expressive**  
**introspective** sensitive **open** idealistic

Based on the Holland Code by Dr. John L. Holland

Source: University of Missouri Career Center, <<http://web.missouri.edu/modules.php?name=News&file=article&sid=146>>

# What Your Interest?

A great way to explore careers is to take an assessment. Assessments are tools to help you discover important things about yourself. Assessments can be based on a variety of things, like your skills, interests or values. What's the best thing about assessments? There are no wrong answers!

Assessments help you think about the types of careers that fit you by providing a broad sense of your career options. If an assessment gives you results that seem really unlikely, don't panic! It got you thinking about what you'd like to do, didn't it?

This assessment is based on the Holland Code. Once completed, you will have an interest profile to match to different career areas. What follows are descriptions for each interest code. Read the descriptions for the codes in your interest profile.

*This assessment is based on Dr. John Holland's theory that people and work environments can be loosely classified into six different groups. Different peoples' personalities may find different environments more to their liking. While you may have some interests in and similarities to several of the six groups, you may be attracted primarily to two or three of the areas. These two or three letters are your Holland Code.*

*For example, with a code of RES you would most resemble the **Realistic** type, somewhat but less resemble the **Enterprising** type, and somewhat but even less resemble the **Social** type. The types that are not in your code are the types you resemble least of all. Most people, and most jobs, are some combination of two or three of the Holland interest areas.*

Read each statement below and, if you agree with it, put a checkmark in the box to the right of it.

**Do you like to ...**

... do puzzles?	<input type="checkbox"/>
... work on cars?	<input type="checkbox"/>
... attend concerts, theaters or art exhibits?	<input type="checkbox"/>
... work in teams?	<input type="checkbox"/>
... organize things like files, offices or activities?	<input type="checkbox"/>
... set goals for yourself?	<input type="checkbox"/>
... build things?	<input type="checkbox"/>
... read fiction, poetry or plays?	<input type="checkbox"/>
... have clear instructions to follow?	<input type="checkbox"/>
... influence or persuade people?	<input type="checkbox"/>
... do experiments?	<input type="checkbox"/>
... teach or train people?	<input type="checkbox"/>
... help people solve their problems?	<input type="checkbox"/>
... take care of animals?	<input type="checkbox"/>
... have your day structured?	<input type="checkbox"/>
... sell things?	<input type="checkbox"/>
... do creative writing?	<input type="checkbox"/>
... work on science projects?	<input type="checkbox"/>
... take on new responsibilities?	<input type="checkbox"/>
... heal people?	<input type="checkbox"/>
... figure out how things work?	<input type="checkbox"/>

... put things together or assemble models?	<input type="checkbox"/>
... be creative?	<input type="checkbox"/>
... pay attention to details?	<input type="checkbox"/>
... do filing or typing?	<input type="checkbox"/>
... learn about other cultures?	<input type="checkbox"/>
... analyze things like problems, situations or trends?	<input type="checkbox"/>
... play instruments or sing?	<input type="checkbox"/>
... dream about starting your own business?	<input type="checkbox"/>
... cook?	<input type="checkbox"/>
... act in plays?	<input type="checkbox"/>
... think things through before making decisions?	<input type="checkbox"/>
... work with numbers or charts?	<input type="checkbox"/>
... discuss issues like politics or current events?	<input type="checkbox"/>
... keep records of your work?	<input type="checkbox"/>
... be a leader?	<input type="checkbox"/>
... work outdoors?	<input type="checkbox"/>
... work in an office?	<input type="checkbox"/>
... work on math problems?	<input type="checkbox"/>
... help people?	<input type="checkbox"/>
... draw?	<input type="checkbox"/>
... give speeches?	<input type="checkbox"/>

Total up your checkmarks by color and record the number in the colored boxes . . . the three letters with the highest scores are your **Interest Profile**.

<b>Realistic</b>	<b>Investigative</b>	<b>Artistic</b>	<b>Social</b>	<b>Enterprising</b>	<b>Conventional</b>
<input type="text"/>					

<b>Three highest scores = Your Interest Profile</b>		
<input type="text"/>	<input type="text"/>	<input type="text"/>

**Realistic: Doers**

People who have athletic or mechanical ability, prefer to work with objects, machines, tools, plants or animals, or to be outdoors. They like to work with their hands. They are often practical and good at solving problems.

**Investigative: Thinkers**

People who like to observe, learn, investigate, analyze, evaluate or solve problems. They often like to work independently, tend to be good at math and science and enjoy analyzing data.

**Artistic: Creators**

People whose abilities are artistic, innovative or intuitive. They like to work in unstructured situations where they can use their imagination and creativity. They enjoy performing (theater or music) and visual arts.

**Social: Helpers**

People who like to work with people to enlighten, inform, help, train, or cure them, or are skilled with words. They enjoy training, instructing, counseling or curing others. They are often good public speakers with helpful, empathetic personalities.

**Enterprising: Persuaders**

People who like to work with people, influencing, persuading, performing, or managing for organizational goals or economic gain. They like to lead and tend to be assertive and enthusiastic.

**Conventional: Organizers**

People who pay attention to detail and like to work with data, have clerical ability, and follow through on others' instructions. They have good organizational and numerical abilities. Conventional people also like working in structured situations.

Now, take the quiz below, checking the statements that describe things you like to do. Count the checkmarks for each color, and write the total in the matching colored boxes at the bottom. The three highest scores are your Interest Profile.

Look for jobs with a matching interest profile in the Career Planning Table to get potential career choices. Use these careers to start career exploration.

Remember — an assessment isn't the final word! It's only one way to start thinking about careers. And this interest assessment is only one type available. Other assessments measure different aspects of your personality.

Based on the Holland Code by Dr. John L. Holland. Source: [www.mnccareers.org](http://www.mnccareers.org)



Naviance Family Connection is a comprehensive website that students can use to make plans about careers and colleges. Most students have created a Naviance Family Connection account using his or her personal email address as their username and a password of his or her choice. Any student who has not yet created an account should see his or her counselor for assistance.

Family Connection allows students to:

- **Get involved in the planning and advising process** – Build a resume, complete online surveys, and manage timelines and deadlines for making decisions about colleges and careers
- **Research colleges** – Compare GPA, standardized test scores, and other statistics to actual historical data from our school for students who have applied and been admitted in the past
- **Research careers** – Research hundreds of careers and career clusters, and take career assessments
- **Create plans for the future** – Create goals and to-dos, and complete tasks assigned by the school to better prepare your student for future college and career goals.
- **Search for scholarships** – Use a national scholarship database to search as well as see scholarship information from the School Counseling Office.

Family Connection also lets us share information with students about upcoming meetings and events, local scholarship opportunities, and other resources for college and career information.

The Career and College Pathways listed in the West Allegheny High School Program of Studies are aligned with the Career Clusters section of Naviance Family Connection. Career clusters are a way of grouping careers with common features and skills. Careers grouped into the same cluster typically require similar education and training. Exploring clusters can be a useful way to find a good career match, especially if you have general areas of interest but are not sure what specific careers match those interests. Career clusters can also help you better understand how your coursework in school can prepare you for certain types of careers. **Students are strongly encouraged to visit [West Allegheny High School's Naviance Family Connection website](#) to access the login screen and explore all of the helpful resources offered.**

Career Clusters include:



Agriculture, Food and Natural Resources



Arts, Audio/Video Technology and Communications



Education and Training



Government and Public Administration



Hospitality and Tourism



Information Technology



Manufacturing



Science, Technology, Engineering and Mathematics



Architecture and Construction



Business Management and Administration



Finance



Health Science



Human Services



Law, Public Safety, Corrections and Security



Marketing



Transportation, Distribution and Logistics



**WAHS CAREER & COLLEGE PATHWAY**  
**ARTS & COMMUNICATIONS**



Associated Holland Codes	Associated Career Clusters	
Artistic Enterprising Conventional	Arts, Audio/Video Technology & Communications	
Possible Careers/Field of Study		
Actor Broadcast News Analyst Fashion Designer Interior Designer Technical Writer	Film and Video Editor Video Game Designer Landscape Architect Musician/Singer Photographer	Reporter / News Correspondent Writer / Author Architectural Drafter Public Relations Specialist Set & Exhibit Designer

**4 Year Course Options and Recommended Pathway Electives**

9 <sup>TH</sup> GRADE			
English	Academic English 9 or Pre-AP/Honors English 9*		
Social Studies	U.S. History, Honors U.S. History*		
Mathematics	Algebra I, Advanced Geometry, Honors EC Algebra II**⌘		
Science	Biology with Lab, Honors Biology with Lab*		
World Language	German I or II, Spanish I or II, American Sign Language I, Mandarin Chinese I (WAVA), French I (WAVA)		
Phys Ed/Health	Phys Ed 9/Health 9		
Electives	Acting and Technical Theatre Art I Band I Baking Around the World Beginning Piano Beginning Guitar Chorus	Dance Digital Audio Production I Digital Multimedia (Parkway) Drawing and Design for Engineering & Architecture Interior Design & Textiles Introduction to Game Design and Web Development**⌘	Jazz Studies: Vocal Jazz Studies: Instrumental Media Arts Principles of Marketing Social Media and Broadcasting Theatre Costumes and Makeup Yearbook
10 <sup>TH</sup> GRADE			
English	Academic English 10, Pre-AP/Honors English 10*		
Social Studies	American Government, AP U.S. Government and Politics**⌘		
Mathematics	Algebra II with Lab, Algebra II, Honors EC Algebra II**⌘, Honors Trigonometry/Precalculus*, AP Statistics**		
Science	Conceptual Chemistry or Honors Chemistry with Lab*		
World Language	American Sign Language II, German II or III, Spanish II or III, Mandarin Chinese II (WAVA), French II (WAVA)		
Phys Ed/Health	Phys Ed 10/Health 10		
Electives	Any of the elective offerings listed above and/or...	3D Modeling**⌘ Art II Band II Developing Multimedia Websites**⌘ Digital Audio Production II	Gamemaker Programming Intermediate Piano Intermediate Guitar Show Choir (By Audition Only)
11 <sup>TH</sup> GRADE			
English	College Readiness English 11, Career Readiness English I, AP English Language and Composition**⌘		
Social Studies	World Cultures, AP World History**		
Mathematics	Geometry, Trigonometry/Precalculus, AP Calculus**		
Science	Conceptual Physics, Physics, AP Physics 1**⌘		
World Language	<b>German III, Honors EC German IV**⌘⌘, Spanish III, Honors EC Spanish IV**⌘⌘, Mandarin Chinese III* (WAVA), French III (WAVA)</b>		
Phys. Ed.	Team Sports, Personal Fitness, Games and Leisure Activities, Aerobic Fitness, Physical Conditioning, <b>Exercise Science</b>		
Electives	Any of the elective offerings listed above and/or...	<b>3D Game Development**⌘</b> 3D Modeling II (WAVA) Art III	Band III (By Audition Only) <b>Game Production and Marketing**⌘</b>
12 <sup>TH</sup> GRADE			
English	College Readiness English 12, Career Readiness English II, AP English Literature and Composition**⌘⌘		
Social Studies	African American Studies (WAVA), AP Psychology**⌘, Comparative Religions, Current Affairs, Holocaust and Genocide Studies, Native American Studies (WAVA), Psychology and Sociology, Women's Studies (WAVA)		
Mathematics	Calculus, Discrete Math, AP Statistics**		
Science	Forensic Science, AP Biology***, AP Chemistry**, AP Physics 2**		
World Language	<b>Honors EC German IV**⌘⌘, AP German**, Honors EC Spanish IV**⌘⌘, AP Spanish**, French IV* (WAVA)</b>		
Phys. Ed.	Team Sports, Personal Fitness, Games and Leisure Activities, Aerobic Fitness, Physical Conditioning, <b>Exercise Science</b>		
Electives	Any of the elective offerings listed above and/or...	AP Studio Art** Honors EC Art IV**⌘⌘	

The key for symbols can be found on page 3 of this program of studies.



**WAHS CAREER & COLLEGE PATHWAY  
BUSINESS AND FINANCE**



Associated Holland Codes	Associated Career Clusters	
Enterprising Investigative Conventional	Business Management & Administration Finance Marketing	
Possible Careers/Field of Study		
Chief Executive Actuary Marketing Manager Loan Officer Credit Counselor	Financial Analyst Insurance Adjuster, Examiner, Investigator Economist Travel Agent Real Estate Broker / Agent	Logistician Event Planner Auditor Court Clerk Advertising / Promotions Manager

### 4 Year Course Options and Recommended Pathway Electives

9 <sup>TH</sup> GRADE			
English	Academic English 9 or Pre-AP/Honors English 9*		
Social Studies	U.S. History, Honors U.S. History*		
Mathematics	Algebra I, Advanced Geometry, Honors EC Algebra II**☼		
Science	Biology with Lab, Honors Biology with Lab*		
World Language	American Sign Language I, German I or II, Spanish I or II, Mandarin Chinese I (WAVA), French I (WAVA)		
Phys Ed/Health	Phys Ed 9/Health 9		
Electives	Business Ownership Entrepreneurship Career, Personal, and Financial Success Financial Literacy: Surviving the Real World Accounting	Introduction to Game Design and Web Development**☼ Introduction to Programming Media Arts	Principles of Business Principles of Marketing Yearbook Beginning USMC Junior ROTC
10 <sup>TH</sup> GRADE			
English	Academic English 10, Pre-AP/Honors English 10*		
Social Studies	American Government, AP U.S. Government and Politics**☼		
Mathematics	Algebra II with Lab, Algebra II, Honors EC Algebra II**☼, Honors Trigonometry/Precalculus*, AP Statistics**		
Science	Conceptual Chemistry, Honors Chemistry with Lab*		
World Language	American Sign Language II, German II or III, Spanish II or III, Mandarin Chinese II (WAVA), French II (WAVA)		
Phys Ed/Health	Phys Ed 10/Health 10		
Electives	Any of the elective offerings listed above and/or...	3D Modeling**☼ AP Computer Science A**☼ AP Computer Science Principles**☼ Intro to Data Analytics with Python**☼	CHS Financial Accounting** Developing Multimedia Websites**☼ Gamedmaker Programming Intermediate USMC Junior ROTC
11 <sup>TH</sup> GRADE			
English	College Readiness English 11, Career Readiness English I, AP English Language and Composition**☼		
Social Studies	World Cultures, AP World History**		
Mathematics	Geometry, Trigonometry/Precalculus, AP Calculus**		
Science	Conceptual Physics, Physics, AP Physics 1**☼		
World Language	German III, Honors EC German IV**☼☼, Spanish III, Honors EC Spanish IV**☼☼, Mandarin Chinese III* (WAVA), French III (WAVA)		
Phys. Ed.	Team Sports, Personal Fitness, Games and Leisure Activities, Aerobic Fitness, Physical Conditioning, <b>Exercise Science</b>		
Electives	Any of the elective offerings listed above and/or...	3D Game Development**☼ Programming in C & C++**☼	3D Modeling II (WAVA) Oral Communications & Interpretation**☼ Intermediate USMC Junior ROTC
12 <sup>TH</sup> GRADE			
English	College Readiness English 12, Career Readiness English II, AP English Literature and Composition**☼☼		
Social Studies	African American Studies (WAVA), AP Psychology**☼, Comparative Religions, Current Affairs, Holocaust and Genocide Studies, Native American Studies (WAVA), Psychology and Sociology, Women's Studies (WAVA)		
Mathematics	Calculus, Discrete Math, AP Statistics**		
Science	Forensic Science, AP Biology**, AP Chemistry**, AP Physics 2**		
World Language	Honors EC German IV**☼☼, AP German**, Honors EC Spanish IV**☼☼, AP Spanish**, French IV* (WAVA)		
Phys. Ed.	Team Sports, Personal Fitness, Games and Leisure Activities, Aerobic Fitness, Physical Conditioning, <b>Exercise Science</b>		
Electives	Any of the elective offerings listed above and/or...	Game Production and Marketing**☼	Advanced USMC Junior ROTC

The key for symbols can be found on page 3 of this program of studies.



## WAHS CAREER & COLLEGE PATHWAY CAREER AND INDUSTRY



*Students interested in this may also be interested in the Early College in High School Academy Mechatronics Technology certificate program and/or Parkway West CTC programs.*

Associated Holland Codes	Associated Career Clusters	
Realistic, Conventional, Investigative, Social, Enterprising, Artistic	Architecture & Construction Health Science Hospitality & Tourism	Manufacturing Transportation, Distribution & Logistics Information Technology
Possible Careers/Field of Study		
Carpenter Home Health Aide Chef Graphic Designer Firefighter	Machinist Air Traffic Controller Avionics Technician Automotive Specialty Technician Jeweler	Judicial Law Clerks Commercial Pilot Woodworker Arbitrator, Mediator, Conciliator Court Reporter

### 4 Year Course Options and Recommended Pathway Electives

9 <sup>TH</sup> GRADE			
English	Academic English 9 or Pre-AP/Honors English 9*		
Social Studies	U.S. History, Honors U.S. History*		
Mathematics	Algebra I, Advanced Geometry, Honors EC Algebra II**☼		
Science	Biology with Lab, Honors Biology with Lab*		
World Language	American Sign Language I, German I or II, Spanish I or II, Mandarin Chinese I (WAVA), French I (WAVA)		
Phys Ed/Health	Phys Ed 9/Health 9		
Electives	Acting & Technical Theatre Adventures in Food Auto Body Repair (Parkway) Automotive Technology (Parkway) Baking Around the World Beginning USMC Junior ROTC Business Ownership/Entrepreneurship Commercial Construction (S) Construction Technology Cluster (Parkway) Cosmetology (Parkway) Culinary Arts (Parkway) Diesel Technology (Parkway)	Digital Audio Production I Digital Multimedia (Parkway) Drawing & Design for Engineer & Architecture Do It Yourself (DIY) Dynamic Living Exploring Foods Financial Literacy: Surviving the Real World Food for Sport Health Assistant (Parkway) Information Technology Essentials (Parkway) Interior Design & Textiles Introduction to Cybersecurity**☼	Introduction to Engineering Design** Introduction to Programming (S) Manufacturing Technology I**☼✓ Media Arts Principles of Business Principles of Marketing Public Safety Technology (Parkway) Relationships and Parenting Sports Med & Rehab Therapy (Parkway) Theatre Costumes & Makeup Veterinary Technology (Parkway)
	10 <sup>TH</sup> GRADE		
English	Academic English 10, Pre-AP/Honors English 10*		
Social Studies	American Government, AP U.S. Government and Politics**☼		
Mathematics	Algebra II with Lab, Algebra II, Honors EC Algebra II**☼, Honors Trigonometry/Precalculus*		
Science	Conceptual Chemistry or Honors Chemistry with Lab*		
World Language	American Sign Language II, German II or III, Spanish II or III, Mandarin Chinese II (WAVA), French II (WAVA)		
Phys Ed/Health	Phys Ed 10/Health 10		
Electives	Any of the elective offerings listed above and/or...	Building Construction Technology (Parkway) CADD I <b>Civil Engineering and Architecture**</b> Computer Forensics with Intrusion Detection & Prevention**☼ Digital Audio Production II Electrical Systems Technology (Parkway) <b>Environmental Sustainability**</b>	Heating, Ventilation, Air Conditioning, & Refrigeration (Parkway) Home Systems**☼✓ Intermediate USMC Junior ROTC Principles of Engineering** Principles of Information Security**☼✓ Welding Technology (Parkway) Accounting
	11 <sup>TH</sup> GRADE		
English	College Readiness English 11, Career Readiness English I, AP English Language and Composition**☼		
Social Studies	World Cultures, AP World History**		
Mathematics	Geometry, Trigonometry/Precalculus, AP Calculus**		
Science	Conceptual Physics, Physics, AP Physics 1**☼		
World Language	<b>German III, Honors EC German IV**☼☼, Spanish III, Honors EC Spanish IV**☼☼, Mandarin Chinese III* (WAVA), French III (WAVA)</b>		
Phys. Ed.	Team Sports, Personal Fitness, Games and Leisure Activities, Aerobic Fitness, Physical Conditioning, <b>Exercise Science</b>		
Electives	Any of the elective offerings listed above and/or...	<b>Advanced Cybersecurity Topics**☼</b> CADD II Child Development ✓	<b>CHS Financial Accounting**</b> <b>Engineering Design and Development**</b> Intermediate USMC Junior ROTC
	12 <sup>TH</sup> GRADE		
English	College Readiness English 12, Career Readiness English II, AP English Literature and Composition**☼☼		
Social Studies	African American Studies (WAVA), AP Psychology**☼, Comparative Religions, Current Affairs, Holocaust and Genocide Studies, Native American Studies (WAVA), Psychology and Sociology, Women's Studies (WAVA)		
Mathematics	Calculus, Discrete Math, AP Statistics**		
Science	Forensic Science, AP Biology**, AP Chemistry**, AP Physics 2**		
World Language	<b>Honors EC German IV**☼☼, AP German**, Honors EC Spanish IV**☼☼, AP Spanish**, French IV* (WAVA), AP U.S. History** (WAVA), Criminal Justice &amp; Investigations**☼</b>		
Phys. Ed.	Team Sports, Personal Fitness, Games and Leisure Activities, Aerobic Fitness, Physical Conditioning, <b>Exercise Science</b>		
Electives	Any of the elective offerings listed above and/or...	CADD III Child Development II	<b>Advanced USMC Junior ROTC</b> <b>Oral Communications &amp; Interpretations**☼</b>



## WAHS CAREER & COLLEGE PATHWAY COMPUTER SCIENCE



*Students interested in this may also be interested in the Early College in High School Academy Cybersecurity or Multimedia Game Simulation programs.*

Associated Holland Codes	Associated Career Clusters	
Investigative Realistic	Information Technology Science, Technology, Engineering, and Mathematics	
Possible Careers/Field of Study		
Computer Network Support Specialist Computer Programmer Software Developer Computer Hardware Engineer Graphic Designer	Multimedia Artist and Animator Information Security Analyst Game Designer Computer Systems Analyst Cost Estimator	Statistician Survey Researcher Engineer, various Computer Network Architect Database Administrator

### 4 Year Course Options and Recommended Pathway Electives

9 <sup>TH</sup> GRADE			
English	Academic English 9 or Pre-AP/Honors English 9*		
Social Studies	U.S. History, Honors U.S. History*		
Mathematics	Algebra I, Advanced Geometry, Honors EC Algebra II**☼		
Science	Biology with Lab, Honors Biology with Lab*		
World Language	American Sign Language I, German I or II, Spanish I or II, Mandarin Chinese I (WAVA), French I (WAVA)		
Phys Ed/Health	Phys Ed 9/Health 9		
Electives	Digital Audio Production I Digital Multimedia (Parkway) Accounting	Information Technology Essentials (Parkway) Introduction to Cybersecurity**☼	Introduction to Game Design and Web Development**☼ Introduction to Programming (Sem)
10 <sup>TH</sup> GRADE			
English	Academic English 10, Pre-AP/Honors English 10*		
Social Studies	American Government, AP U.S. Government and Politics**☼, Criminal Justice & Investigations**☼		
Mathematics	Algebra II with Lab, Algebra II, Honors EC Algebra II**☼, Honors Trigonometry/Precalculus*		
Science	Conceptual Chemistry or Honors Chemistry with Lab*		
World Language	American Sign Language II, German II or III, Spanish II or III, Mandarin Chinese II (WAVA), French II (WAVA)		
Phys Ed/Health	Phys Ed 10/Health 10		
Electives	Any of the elective offerings listed above and/or...	3D Modeling**☼ <b>AP Computer Science A**☼</b> <b>AP Computer Science Principles**☼</b> Computer Forensics with Intrusion Detection and Prevention**☼	Developing Multimedia Websites**☼ Digital Audio Production II GAMEMAKER Programming Principles of Information Security**☼✓ <b>AP Seminar**</b>
11 <sup>TH</sup> GRADE			
English	College Readiness English 11, Career Readiness English I, AP English Language and Composition**☼		
Social Studies	World Cultures, AP World History**		
Mathematics	Geometry, Trigonometry/Precalculus, AP Calculus**		
Science	Conceptual Physics, Physics, AP Physics 1**☼		
World Language	<b>German III, Honors EC German IV**☼☼, Spanish III, Honors EC Spanish IV**☼☼, Mandarin Chinese III* (WAVA), French III (WAVA)</b>		
Phys. Ed.	Team Sports, Personal Fitness, Games and Leisure Activities, Aerobic Fitness, Physical Conditioning, <b>Exercise Science</b>		
Electives	Any of the elective offerings listed above and/or...	3D Modeling II (WAVA) <b>3D Game Development**☼</b>	<b>Advanced Cybersecurity Topics**☼</b> <b>Intro to Data Analytics with Python**☼</b> <b>Programming in C &amp; C++**☼</b> AP Research**
12 <sup>TH</sup> GRADE			
English	College Readiness English 12, Career Readiness English II, AP English Literature and Composition**☼☼		
Social Studies	African American Studies (WAVA), AP Psychology**☼, Comparative Religions, Current Affairs, Holocaust and Genocide Studies, Native American Studies (WAVA), Psychology and Sociology, Women's Studies (WAVA), AP U.S. History**☼		
Mathematics	Calculus, Discrete Math, AP Statistics**		
Science	Forensic Science, AP Biology**☼, AP Chemistry**☼, AP Physics 2**		
World Language	<b>Honors EC German IV**☼☼, AP German**☼, Honors EC Spanish IV**☼☼, AP Spanish**☼, French IV* (WAVA)</b>		
Phys. Ed.	Team Sports, Personal Fitness, Games and Leisure Activities, Aerobic Fitness, Physical Conditioning, <b>Exercise Science</b>		
Electives	Any of the elective offerings listed above and/or...	<b>Game Production and Marketing**☼</b> Oral Communications & Interpretations**☼	

The key for symbols can be found on page 3 of this program of studies.



**WAHS CAREER & COLLEGE PATHWAY  
HUMAN AND PUBLIC SERVICES**



*Students interested in this may also be interested in the Parkway West CTC programs.*

Associated Holland Codes	Associated Career Clusters	
Realistic Investigative Artistic Social Enterprising	Education and Training Government and Public Administration Hospitality and Tourism Human Services Law, Public Safety, and Security	
Possible Careers/Field of Study		
Teacher Judge Food Service Manager Social Worker Police Officer	Counselor Funeral Director Political Scientist Interpreter/Translator Religious Director	Firefighter Detective Lawyer School Psychologist Legislator

### 4 Year Course Options and Recommended Pathway Electives

9 <sup>TH</sup> GRADE			
English	Academic English 9 or Pre-AP/Honors English 9*		
Social Studies	U.S. History, Honors U.S. History*		
Mathematics	Algebra I, Advanced Geometry, Honors EC Algebra II**⌘		
Science	Biology with Lab, Honors Biology with Lab*		
World Language	American Sign Language I, German I or II, Spanish I or II, Mandarin Chinese I (WAVA), French I (WAVA)		
Phys Ed/Health	Phys Ed 9/Health 9		
Electives	Accounting Adventures in Food Auto Body Repair (Parkway) Automotive Technology (Parkway) Baking Around the World Beginning USMC Junior ROTC Business Ownership/Entrepreneurship	Cosmetology (Parkway) Culinary Arts (Parkway) Dynamic Living Exploring Foods Financial Literacy: Surviving the Real World Food for Sport	Health Assistant (Parkway) Interior Design and Textiles Principles of Business Principles of Marketing Public Safety Technology (Parkway) Relationships and Parenting Veterinary Technology (Parkway)
	10 <sup>TH</sup> GRADE		
English	Academic English 10, Pre-AP/Honors English 10*		
Social Studies	American Government, AP U.S. Government and Politics**⌘		
Mathematics	Algebra II with Lab, Algebra II, Honors EC Algebra II**⌘, Honors Trigonometry/Precalculus*, AP Statistics**		
Science	Conceptual Chemistry, Honors Chemistry with Lab*, AP Biology**		
World Language	American Sign Language II, German II or III, Spanish II or III, Mandarin Chinese II (WAVA), French II (WAVA)		
Phys Ed/Health	Phys Ed 10/Health 10		
Electives	Any of the elective offerings listed above and/or...	<b>AP Computer Science Principles**⌘</b> Intermediate USMC Junior ROTC	<b>AP Seminar**</b>
	11 <sup>TH</sup> GRADE		
English	College Readiness English 11, Career Readiness English I, AP English Language and Composition**⌘		
Social Studies	World Cultures, AP World History**, Criminal Justice & Investigations**⌘		
Mathematics	Geometry, Trigonometry/Precalculus, AP Calculus**		
Science	Conceptual Physics, Physics, AP Physics 1**⌘		
World Language	<b>German III, Honors EC German IV**⌘⌘, Spanish III, Honors EC Spanish IV**⌘⌘, Mandarin Chinese III* (WAVA), French III (WAVA)</b>		
Phys. Ed.	Team Sports, Personal Fitness, Games and Leisure Activities, Aerobic Fitness, Physical Conditioning, <b>Exercise Science</b>		
Electives	Any of the elective offerings listed above and/or...	Child Development ✓ Intermediate USMC Junior ROTC	AP Research**
	12 <sup>TH</sup> GRADE		
English	College Readiness English 12, Career Readiness English II, AP English Literature and Composition**⌘⌘		
Social Studies	African American Studies (WAVA), AP Psychology**⌘, Comparative Religions, Current Affairs, Holocaust and Genocide Studies, Native American Studies (WAVA), Psychology and Sociology, Women's Studies (WAVA)		
Mathematics	Calculus, Discrete Math, AP Statistics**		
Science	Forensic Science, AP Biology**, AP Chemistry**, AP Physics 2**		
World Language	<b>Honors EC German IV**⌘⌘, AP German**, Honors EC Spanish IV**⌘⌘, AP Spanish**, French IV* (WAVA)</b>		
Phys. Ed.	Team Sports, Personal Fitness, Games and Leisure Activities, Aerobic Fitness, Physical Conditioning, <b>Exercise Science</b>		
Electives	Any of the elective offerings listed above and/or...	Child Development II <b>Advanced USMC Junior ROTC</b>	Oral Communications & Interpretation**⌘

The key for symbols can be found on page 3 of this program of studies.



**WAHS CAREER & COLLEGE PATHWAY  
PRE-ENGINEERING**



*Students interested in this may also be interested in the Early College in High School Academy Mechatronics Technology program or the Project Lead The Way Engineering program.*

Associated Holland Codes	Associated Career Clusters	
Realistic Investigative Conventional	Architecture and Construction Science, Technology, Engineering, and Mathematics	
Possible Careers/Field of Study		
Architect Engineer, various Historians Interior Design Electronic Drafters	Software Developers Surveyor Cost Estimator Political Scientist Carpenter	Oil and Gas Operator Brick/Block Mason Electrician Geographer Explosive worker

### 4 Year Course Options and Recommended Pathway Electives

9 <sup>TH</sup> GRADE			
English	Academic English 9 or Pre-AP/Honors English 9*		
Social Studies	U.S. History, Honors U.S. History*		
Mathematics	Algebra I, Advanced Geometry, Honors EC Algebra II**⚡		
Science	Biology with Lab, Honors Biology with Lab*		
World Language	American Sign Language I, German I or II, Spanish I or II, Mandarin Chinese I (WAVA), French I (WAVA)		
Phys Ed/Health	Phys Ed 9/Health 9		
Electives	Construction Technology Cluster (Parkway) Drawing and Design for Engineering and Architecture	Manufacturing I**⚡✓ Introduction to Engineering Design**	
10 <sup>TH</sup> GRADE			
English	Academic English 10, Pre-AP/Honors English 10*		
Social Studies	American Government, AP U.S. Government and Politics**⚡		
Mathematics	Algebra II with Lab, Algebra II, Honors EC Algebra II**⚡, Honors Trigonometry/Precalculus*, AP Statistics**		
Science	Conceptual Chemistry, Honors Chemistry with Lab*, AP Biology**		
World Language	American Sign Language II, German II or III, Spanish II or III, Mandarin Chinese II (WAVA), French II (WAVA)		
Phys Ed/Health	Phys Ed 10/Health 10		
Electives	Any of the elective offerings listed above and/or...	Building Construction Technology (Parkway) CADD I <b>Civil Engineering and Architecture**</b> <b>Digital Electronics**⚡</b> Electrical Systems Technology (Parkway)	Heating, Ventilation, Air Conditioning and Refrigeration HVAC/R (Parkway) <b>Environmental Sustainability**</b> Manufacturing Technology II Principles of Engineering** Welding Technology (Parkway)
11 <sup>TH</sup> GRADE			
English	College Readiness English 11, Career Readiness English I, AP English Language and Composition**⚡		
Social Studies	World Cultures, AP World History**		
Mathematics	Geometry, Trigonometry/Precalculus, AP Calculus**		
Science	Conceptual Physics, Physics, AP Physics I**⚡		
World Language	<b>German III, Honors EC German IV**⚡⚡, Spanish III, Honors EC Spanish IV**⚡⚡, Mandarin Chinese III* (WAVA), French III (WAVA)</b>		
Phys. Ed.	Team Sports, Personal Fitness, Games and Leisure Activities, Aerobic Fitness, Physical Conditioning, <b>Exercise Science</b>		
Electives	Any of the elective offerings listed above and/or...	CADD II <b>Engineering Design and Development**</b>	Fluid Robotics**⚡ Home Systems**⚡✓
12 <sup>TH</sup> GRADE			
English	College Readiness English 12, Career Readiness English II, AP English Literature and Composition**⚡⚡		
Social Studies	African American Studies (WAVA), AP Psychology**⚡, Comparative Religions, Current Affairs, Holocaust and Genocide Studies, Native American Studies (WAVA), Psychology And Sociology, Women's Studies (WAVA), AP U.S. History (WAVA)**		
Mathematics	Calculus, Discrete Math, AP Statistics**		
Science	Forensic Science, AP Biology**, AP Chemistry**, AP Physics 2**		
World Language	<b>Honors EC German IV**⚡⚡⚡, AP German**, Honors EC Spanish IV**⚡⚡⚡, AP Spanish**, French IV* (WAVA)</b>		
Phys. Ed.	Team Sports, Personal Fitness, Games and Leisure Activities, Aerobic Fitness, Physical Conditioning, <b>Exercise Science</b>		
Electives	Any of the elective offerings listed above and/or...	CADD III Programming Logic Controllers**⚡✓	

The key for symbols can be found on page 3 of this program of studies.



## WAHS CAREER & COLLEGE PATHWAY SCIENCE AND HEALTH



*Students interested in this may also be interested in the Project Lead The Way Biomedical Sciences program and/or Parkway West CTC programs.*

Associated Holland Codes	Associated Career Clusters
Realistic Investigative Social Conventional	Agriculture, Food, and Natural Resources Health Science Science, Technology, Engineering, and Mathematics
Possible Careers/Field of Study	
Athletic Trainer Chemist Clinical Psychologist Chiropractor Dietician	Pharmacist Veterinarian Speech and Language Pathologist Radiation Therapist Zoologist and Wildlife Biologist
	Animal Breeder Forester Optometrist Dental Hygienist Microbiologist

### 4 Year Course Options and Recommended Pathway Electives

9 <sup>TH</sup> GRADE			
English	Academic English 9 or Pre-AP/Honors English 9*		
Social Studies	U.S. History, Honors U.S. History*		
Mathematics	Algebra I, Advanced Geometry, Honors EC Algebra II**⌘		
Science	Biology with Lab, Honors Biology with Lab*		
World Language	American Sign Language I, German I or II, Spanish I or II, Mandarin Chinese I (WAVA), French I (WAVA)		
Phys Ed/Health	Phys Ed 9/Health 9		
Electives	Food for Sport Health Assistant (Parkway)	Relationships and Parenting Physical Conditioning	Veterinary Technology (Parkway)
10 <sup>TH</sup> GRADE			
English	Academic English 10, Pre-AP/Honors English 10*		
Social Studies	American Government, AP U.S. Government and Politics**⌘		
Mathematics	Algebra II with Lab, Algebra II, Honors EC Algebra II**⌘, Honors Trigonometry/Precalculus*, AP Statistics**		
Science	Conceptual Chemistry, Honors Chemistry with Lab*, AP Biology**		
World Language	American Sign Language II, German II or III, Spanish II or III, Mandarin Chinese II (WAVA), French II (WAVA)		
Phys Ed/Health	Phys Ed 10/Health 10		
Electives	Any of the elective offerings listed above and/or...	Principles of The Biomedical Sciences** <b>AP Seminar**</b>	
11 <sup>TH</sup> GRADE			
English	College Readiness English 11, Career Readiness English I, AP English Language and Composition**⌘⌘		
Social Studies	World Cultures, AP World History**		
Mathematics	Geometry, Trigonometry/Precalculus, AP Calculus**		
Science	Conceptual Physics, Physics, AP Physics 1**⌘		
World Language	<b>German III, Honors EC German IV**⌘⌘, Spanish III, Honors EC Spanish IV**⌘⌘, Mandarin Chinese III* (WAVA), French III (WAVA)</b>		
Phys. Ed.	Team Sports, Personal Fitness, Games and Leisure Activities, Aerobic Fitness, Physical Conditioning, <b>Exercise Science</b>		
Electives	Any of the elective offerings listed above and/or...	Human Body Systems** AP Research**	
12 <sup>TH</sup> GRADE			
English	College Readiness English 12, Career Readiness English II, AP English Literature and Composition**⌘⌘⌘		
Social Studies	African American Studies (WAVA), AP Psychology**⌘, Comparative Religions, Current Affairs, Holocaust and Genocide Studies, Native American Studies (WAVA), Psychology and Sociology, Women's Studies (WAVA)		
Mathematics	Calculus, Discrete Math, AP Statistics**		
Science	Forensic Science, AP Biology**, AP Chemistry**, AP Physics 2**		
World Language	<b>Honors EC German IV**⌘⌘, AP German**, Honors EC Spanish IV**⌘⌘, AP Spanish**, French IV* (WAVA)</b>		
Phys. Ed.	Team Sports, Personal Fitness, Games and Leisure Activities, Aerobic Fitness, Physical Conditioning, <b>Exercise Science</b>		
Electives	Any of the elective offerings listed above and/or...	Medical Interventions** Oral Communications & Interpretation**⌘	

The key for symbols can be found on page 3 of this program of studies.



**WAHS CAREER & COLLEGE PATHWAY  
UNIVERSAL**



*Students interested in this may also be interested in the Early College in High School Academy General Studies certificate program and/or concurrent enrollment opportunities.*

**Associated Holland Codes**

Courses designated as Universal are core academic courses and apply to all career and college pathways. These courses will equip students with essential skills and knowledge, but may not provide appropriate rigor for all students in all pathways. Each student is encouraged to enroll in courses providing appropriate challenge and growth opportunities to best prepare him/her for post-secondary aspirations, while being mindful of graduation requirements.

**4 Year Course Options and Recommended Pathway Electives**

9 <sup>TH</sup> GRADE	
English	Academic English 9 or Pre-AP/Honors English 9*
Social Studies	U.S. History, Honors U.S. History*
Mathematics	Algebra I, Advanced Geometry, Honors EC Algebra II**☹☹
Science	Biology with Lab, Honors Biology with Lab*
World Language	American Sign Language I, German I or II, Spanish I or II, Mandarin Chinese I (WAVA), French I (WAVA)
Phys Ed/Health	Phys Ed 9/Health 9
Electives	Any of the elective offerings.
10 <sup>TH</sup> GRADE	
English	Academic English 10, Pre-AP/Honors English 10*
Social Studies	American Government, AP U.S. Government and Politics**☹☹
Mathematics	Algebra II with Lab, Algebra II, Honors EC Algebra II**☹☹, Honors Trigonometry/Precalculus*
Science	Conceptual Chemistry or Honors Chemistry with Lab*
World Language	American Sign Language II, German II or III, Spanish II or III, Mandarin Chinese II (WAVA), French II (WAVA)
Phys Ed/Health	Phys Ed 10/Health 10
Electives	Any of the elective offerings.
11 <sup>TH</sup> GRADE	
English	College Readiness English 11, Career Readiness English I, AP English Language and Composition**☹☹☹
Social Studies	World Cultures, AP World History**
Mathematics	Geometry, Trigonometry/Precalculus, AP Calculus**
Science	Conceptual Physics, Physics, AP Physics 1**☹☹
World Language	<b>German III, Honors EC German IV**☹☹☹, Spanish III, Honors EC Spanish IV**☹☹☹, Mandarin Chinese III* (WAVA), French III (WAVA)</b>
Phys. Ed.	Team Sports, Personal Fitness, Games and Leisure Activities, Aerobic Fitness, Physical Conditioning, <b>Exercise Science</b>
Electives	Any of the elective offerings.
12 <sup>TH</sup> GRADE	
English	College Readiness English 12, Career Readiness English II, AP English Literature and Composition**☹☹☹
Social Studies	African American Studies (WAVA), AP Psychology**☹☹, Comparative Religions, Current Affairs, Holocaust and Genocide Studies, Native American Studies (WAVA), Psychology and Sociology, Women's Studies (WAVA)
Mathematics	Calculus, Discrete Math, AP Statistics**
Science	Forensic Science, AP Biology**, AP Chemistry**, AP Physics 2**
World Language	<b>Honors EC German IV**☹☹☹, AP German**, Honors EC Spanish IV**☹☹☹, AP Spanish**, French IV* (WAVA), AP U.S. History** (WAVA), Criminal Justice &amp; Investigations**☹☹</b>
Phys. Ed.	Team Sports, Personal Fitness, Games and Leisure Activities, Aerobic Fitness, Physical Conditioning, <b>Exercise Science</b>
Electives	Any of the elective offerings.

The key for symbols can be found on page 3 of this program of studies.

# Summary of Programs

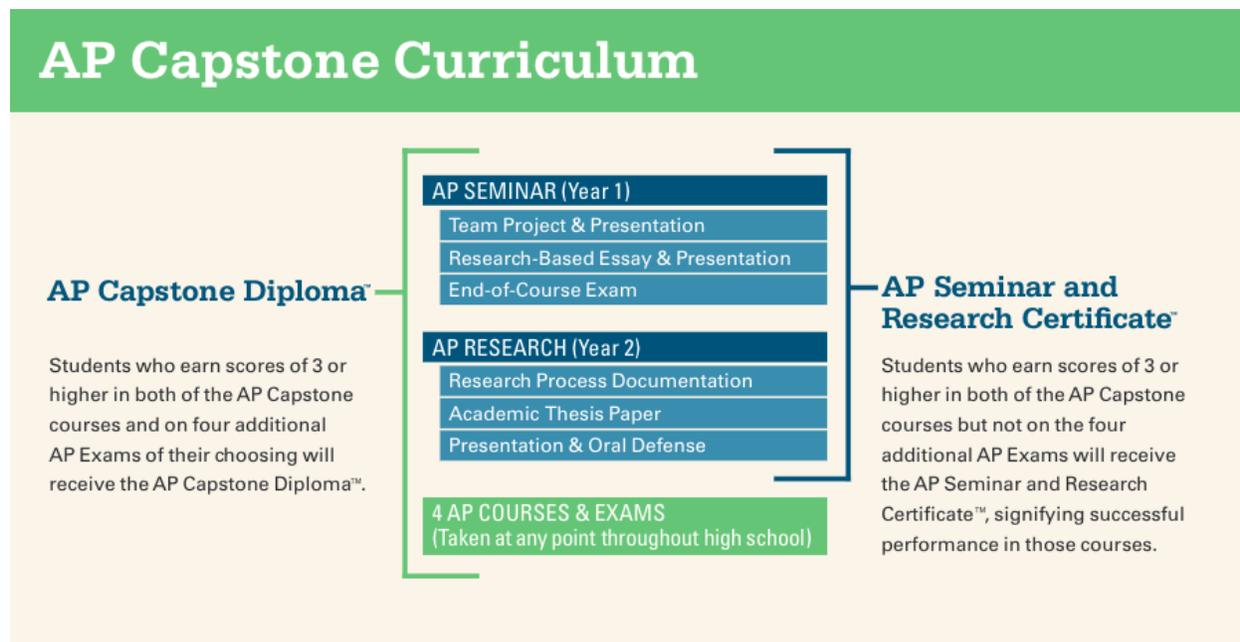


West Allegheny High School offers a multitude of programs designed to connect students to viable pathways; supporting our students while earning their high school diploma and beyond. Through our varied programs and course offerings, we believe we can fulfill our mission to ensure our students develop the knowledge and skills needed to be prepared for employment and life-long learning as they become responsible citizens of our global world.

Each of the seven (7) programs listed throughout this section has been designed to support students as they plan for their next steps beyond West Allegheny High School. These programs include the AP Capstone Diploma Program, four (4) Community College of Allegheny County programs within the Early College in High School Academy (providing concurrent enrollment opportunities for 30 West Allegheny courses aligning to 48 CCAC courses for a possible 150 credits), the Aviation Academy through Community College of Beaver County, two (2) Project Lead The Way programs, fifteen (15) Parkway West Career & Technology Center programs, West Allegheny Learning Center, and West Allegheny Virtual Academy.

## AP Capstone Diploma Program

AP Capstone™ is a College Board Program that equips students with the independent research, collaborative research, and communication skills that are increasingly valued by colleges. It cultivates curious, independent, and collaborative scholars and prepares them to make logical, evidence-based decisions. West Allegheny students have the ability to earn an AP Capstone Diploma and/or an AP Seminar and Research Certificate. The graphic below explains the requirements for both options within the AP Capstone Program and the AP course offerings available.



### West Allegheny High School Advanced Placement Course Offerings

#### **AP Capstone**

AP Seminar  
AP Research

#### **Arts**

AP Studio Art: Drawing

#### **English**

AP English Language & Composition  
AP English Literature & Composition

#### **History & Social Science**

AP U.S. Government & Politics  
AP Macroeconomics  
AP Psychology  
AP World History  
AP United States History (WAVA)

#### **Math, Science, & Technology**

AP Biology  
AP Calculus AB  
AP Chemistry  
AP Computer Science Principles  
AP Computer Science A  
AP Physics 1  
AP Physics 2  
AP Statistics

#### **World Languages**

AP Spanish Language & Culture  
AP German Language & Culture  
AP French Language & Culture (WAVA)

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## Project Lead The Way

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West Allegheny High School offers two Project Lead The Way (PLTW) Programs designed to provide students with a comprehensive approach to science, technology, engineering, mathematics (STEM) education. In both the Engineering and Biomedical Science programs, students are immersed in activity-based, project-based, and problem-based curriculum encouraging students to find unique solutions to lead their own learning. Students may begin taking PLTW courses as early as freshman year, and for some courses, may be eligible to earn college credit. For a more detailed description of the courses within each program, please reference the course description section of this document.

### **PLTW Engineering Program**

Introduction to Engineering Design  
Principles of Engineering  
Digital Electronics  
Environmental Sustainability  
Civil Engineering & Architecture  
Engineering Design & Development –**Capstone Course**

### **PLTW Biomedical Sciences Program**

Principles of Biomedical Science  
Human Body Systems  
Medical Interventions

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## Early College in High School Academy

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West Allegheny High School has partnered with the Community College of Allegheny County (CCAC) to offer the Early College in High School Academy (ECIHS) concurrent enrollment program. This program will allow students the opportunity to earn college credits equivalent to a college certificate program or associate degree through courses taught at the high school during the traditional school day. Students electing to participate in ECIHS will have the opportunity to earn between three and nine CCAC credits for each West Allegheny High School course at a discounted rate per CCAC course (most West Allegheny courses in this program are equivalent to two CCAC courses). This discounted rate is equivalent to a 74% discount compared to the standard CCAC tuition rates for a traditional student within Allegheny County. Thirty (30) West Allegheny courses are linked with 48 CCAC courses, providing students the opportunity to earn up to 150 credits. A student that wishes to continue his/her education after graduation may apply the earned credits at CCAC or another institution towards a further degree.

West Allegheny has developed, in partnership with CCAC, four (4) programs for students to choose from in ECIHS: Cybersecurity (certificate or associate degree), Multimedia Game Simulation (certificate), Multimedia Programming, Simulation and Gaming (associate degree), Mechatronics Technology (certificate), and General Studies (certificate or concurrent enrollment). The pages that follow provide more specific information about each of the programs, however for more individualized information please contact your school counselor or the Academic Principal.

# Early College In High School Academy



## Cybersecurity

### There has Never Been a Better Time to Earn a Degree in Cybersecurity

Through the Early College in High School Academy, a unique partnership with Community College of Allegheny County, West Allegheny High School is excited to offer a Cybersecurity program. This hallmark opportunity allows our students to complete their first year or two of college by earning a college certificate or associate degree while also attaining a WA high school diploma.

Identified as one of the most in demand and fastest growing careers, Cybersecurity focuses on identifying and analyzing vulnerabilities, threats and risks in the age of digital information. Students enrolled in the ECIHSA Cybersecurity program will learn how to protect sensitive online data and safeguard digital security.

#### Course Credits

The Cybersecurity program offers the flexibility of earning either a college certificate or an associate degree. The Cybersecurity Certificate program consists of 25 college credits earned in four (4) West Allegheny courses. The Cybersecurity Associate Degree consists of 71 college credits earned in 13 West Allegheny courses.

#### Career Opportunities

Employment opportunities for Cybersecurity graduates are in high demand and careers are diverse. Many graduates find employment in the banking, retail or government sector, working to network data, install firewalls, create security plans and monitor online activity.

#### Career Demand

According to 2017/2018 data, annual job openings in the cybersecurity field were 1,560 regionally and 18,993 nationally. The median hourly earnings were \$33.68 regionally and \$36.87 nationally. These numbers are anticipated to grow by 7.4% regionally and 13.1% nationally over the next decade.

#### Benefits of the Early College in High School Academy Cybersecurity Program

- In four (4) West Allegheny courses, students complete eight (8) CCAC courses earning 25 college credits and complete the Cybersecurity Certificate program, while earning an industry credential/certificate.
- In 13 West Allegheny courses, students complete 21 CCAC courses earning 71 college credits and complete the Cybersecurity Associate Degree program.
- Students have the opportunity to earn either the Cybersecurity Certificate or Associate Degree in three (3) or four (4) years.
- Courses are taught at West Allegheny High School by our teachers certified as CCAC adjunct professors during the regular school day, while students earn credits toward their WA diploma.
- Any student enrolled in the certificate or associate program will receive a 50% or 100% academic scholarship to fund program completion (students must maintain a 2.8 GPA and a minimum of 90% attendance). Families will be responsible to pay up to \$56.50\* per CCAC course.
- Students who elect to take courses as concurrent enrollment only, will be responsible for an associated cost of \$113\* per CCAC course as compared to \$425\* for a four-credit course as well as a one-time \$25 matriculation fee.
- Students are eligible for all benefits available to CCAC students including access to the library, Math Café, and Writing Labs.

\*Costs are subject to change based on CCAC tuition rates.



**Cybersecurity Certificate - 4 Year Progression**  
**4 WA Courses (8 CCAC Courses) – 25 Credits**

**Year 1**

Intro to Cybersecurity

CIT 115 – Intro to Info Technology – 3 Cr &  
CIT 175 – Cyberspace Vuln & Risks – 3 Cr

**Year 2**

Principles of Information Security

CIT 181 – Principles of Info Security – 4 CR  
CIT 185 – Network Security – 3 CR

**Year 3**

Computer Forensics with Intrusion Detection & Prevention  
(New for 2020-21)

CIT 180 – Computer Forensics 1 – 3 CR  
CIT 186 – Intrusion Detect. & Prev. – 3 CR

**Year 4**

Advanced Cybersecurity Topics (New For 2020-21)

CIT 282 – Adv Cybersecurity Topics – 3CR  
CIT 285 – Cybersecurity Capstone – 3 CR

**Cybersecurity Associate - 4 Year Progression**  
**13 WA Courses (21 CCAC Courses) – 68 Credits**

**Year 1**

Introduction to Cybersecurity

CIT 115 – Intro to Info Tech – 3 CR  
CIT 175 – Cyberspace Vuln. & Risks – 3 CR

Honors EC Algebra II – MUST Pass CCAC Placement Test

Placement of the course will vary based students course progression  
MAT 108 – Intermediate Algebra – 4CR

**Year 2**

Principles of Information Security

CIT 181 – Principles of Info Security – 4 CR  
CIT 185 – Network Security – 3 CR

Criminal Justice & Investigations

CJC 101 – Intro to Criminal Justice – 3 CR  
CJC 201 – Fundamentals of Criminal Investigation – 3 CR

AP U.S. Government & Politics

POL 103 – American Government – 3 CR

AP Computer Science Principles

CIT 111 – Intro to Programming

**Year 3**

Computer Forensics with Intrusion Detection & Prevention  
(New for 2020-21)

CIT 180 – Computer Forensics 1 – 3 CR  
CIT 186 – Intrusion Detect. & Prev. – 3 CR

AP English Language & Composition – MUST Pass CCAC Placement Test

ENG 101 – English Comp. 1 – 3 CR  
ENG 102 – English Comp. 2 – 3 CR

AP Physics 1 – MUST Pass MAT 108 (Honors Algebra II)

PHY 141 – Physics 1 – 4 CR

**Year 4**

Advanced Cybersecurity Topics (New for 2020-21)

CIT 282 – Adv. Cybersecurity Topics – 3 CR  
CIT 285 – Cybersecurity Capstone – 3 CR

Intro to Data Analytics with Python (New for 2020-21)

DAT 102 – Intro to Data Analytics – 3 CR  
DAT 119 – Python 1 – 3 CR

Oral Communications & Interpretation (New for 2020-21)

SPH 101 – Oral Communications – 3 CR  
SPH 202 – Oral Interpretation – 3 CR

**Cybersecurity Certificate - 3 Year Progression**  
**4 WA Courses (8 CCAC Courses) – 25 Credits**

**Year 1**

Intro to Cybersecurity

CIT 115 – Intro to Info Technology – 3 Cr &  
CIT 175 – Cyberspace Vuln & Risks – 3 Cr

**Year 2**

Principles of Information Security

CIT 181 – Principles of Info Security – 4 CR  
CIT 185 – Network Security – 3 CR

Computer Forensics with Intrusion Detection & Prevention  
(New for 2020-21)

CIT 180 – Computer Forensics 1 – 3 CR  
CIT 186 – Intrusion Detect. & Prev. – 3 CR

**Year 3**

Advanced Cybersecurity Topics (New For 2020-21)

CIT 282 – Adv Cybersecurity Topics – 3CR  
CIT 285 – Cybersecurity Capstone – 3 CR

**Cybersecurity Associate - 3 Year Progression**  
**13 WA Courses (21 CCAC Courses) – 71 Credits**

**Year 1**

Introduction to Cybersecurity

CIT 115 – Intro to Info Tech – 3 CR  
CIT 175 – Cyberspace Vuln. & Risks – 3 CR

Honors EC Algebra II – MUST Pass CCAC Placement Test

Placement of the course will vary based students course progression  
MAT 108 – Intermediate Algebra – 4CR

AP U.S. Government & Politics

POL 103 – American Government – 3 CR

AP Computer Science Principles

CIT 111 – Intro to Programming

**Year 2**

Principles of Information Security

CIT 181 – Principles of Info Security – 4 CR  
CIT 185 – Network Security – 3 CR

Computer Forensics with Intrusion Detection & Prevention  
(New for 2020-21)

CIT 180 – Computer Forensics 1 – 3 CR  
CIT 186 – Intrusion Detect. & Prev. – 3 CR

Criminal Justice & Investigations

CJC 101 – Intro to Criminal Justice – 3 CR  
CJC 201 – Fundamentals of Criminal Investigation – 3 CR

AP English Language & Composition – MUST Pass CCAC Placement Test

ENG 101 – English Comp. 1 – 3 CR  
ENG 102 – English Comp. 2 – 3 CR

AP Physics 1 – MUST Pass MAT 108 (Honors Algebra II)

PHY 141 – Physics 1 – 4 CR

**Year 3**

Advanced Cybersecurity Topics (New for 2020-21)

CIT 282 – Adv. Cybersecurity Topics – 3 CR  
CIT 285 – Cybersecurity Capstone – 3 CR

Intro to Data Analytics with Python (New for 2020-21)

DAT 102 – Intro to Data Analytics – 3 CR  
DAT 119 – Python 1 – 3 CR

Oral Communications & Interpretation (New for 2020-21)

SPH 101 – Oral Communications – 3 CR  
SPH 202 – Oral Interpretation – 3 CR

Programming In C and C++ (New for 2020-2021)

CIT 145 – Programming In C – 3 CR  
CIT 245 – Data Struct. & Prog. In C++ - 4 CR

Please visit your school counselor to learn more about enrollment options.

# Early College In High School Academy



## General Studies Certificate or Concurrent Enrollment Building a Foundation for Academic Success

Through the Early College in High School Academy, a unique partnership with Community College of Allegheny County, West Allegheny High School is excited to offer a General Studies program. This distinct opportunity allows our students to complete their first year or two of college by earning a college certificate while also attaining a WA high school diploma.

The General Studies program provides the foundations of a baccalaureate liberal arts degree.

Upon successful completion of this program, students will be prepared to:

- Write critically
- Speak effectively in a professional environment
- Demonstrate college level mathematical skills
- Distinguish among the experiences of diverse cultures
- Demonstrate computer literacy

### Course Credits

The General Studies program offers a college certificate consisting of **35-36** CCAC credits earned in **eight (8)** West Allegheny courses. West Allegheny offers **48** CCAC courses with **150** college dual/concurrent enrollment credits in **30** WA eligible courses.

### Transfer Opportunities

Students should select specialized courses within their major field of concentration as identified by their transfer college or university.

### How to Enroll

Please visit your school counselor to learn more about enrollment options

### Benefits of the Early College In High School Academy General Studies Program

- In only eight (8) West Allegheny courses, students earn 35-36 CCAC credits through the General Studies Certificate program.
- Students have the opportunity to take 48 CCAC courses eligible for 150 college credits as part of concurrent enrollment in 30 WA courses.
- Students have the opportunity to earn the General Studies Certificate in three (3) or four (4) years.
- Courses are taught at West Allegheny High School by our teachers certified as CCAC adjunct professors during the regular school day while students earn credits toward their WA diploma.
- Any student enrolled in the certificate program will receive a 50% or 100% academic scholarship to fund program completion (students must maintain a 2.8 GPA and a minimum of 90% attendance). Families will be responsible to pay up to \$56.50\* per CCAC course.
- Students who elect to take courses as concurrent enrollment only, will be responsible for an associated cost of \$113\* per CCAC course as compared to \$425\* for a four-credit course as well as a one-time \$25 matriculation fee.
- Students are eligible for all benefits available to CCAC students including access to the library, Math Café, and Writing Labs.

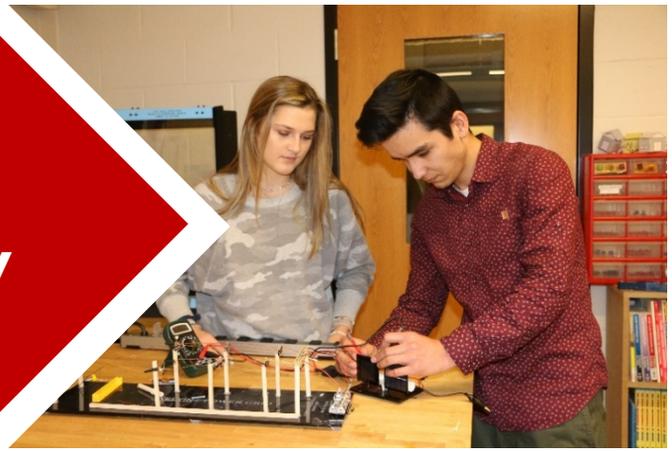
\*Costs are subject to change based on CCAC tuition costs.



**GENERAL STUDIES CERTIFICATE**  
**8 WA Courses – 35-36 CCAC Credits**

REQUIRED CORE COURSES (5 COURSES – 23 CCAC CREDITS)	
Honors EC Algebra II - **MUST Pass CCAC Placement Test Placement of this course will vary based on course progression for student	MAT 108 – Interm. Algebra – 4 CR
AP U.S. Government & Politics or AP Psychology	POL 103 – American Government – 3 CR or PSY 101 – Intro to Psychology – 3 CR
AP English Language & Composition - **MUST Pass CCAC Placement Test	ENG 101 – English Comp 1 – 3 CR ENG 102 – English Comp 2 – 3 CR
AP Physics 1 - **MUST Pass MAT 108 (Honors Algebra II)	PHY 141 – Physics 1 – 4 CR
Oral Communications & Interpretation (New for 2019-20)	SPH 101 – Oral Communications – 3 CR SPH 202 – Oral Interpretation – 3 CR
CIT ELECTIVE OPTIONS (CHOOSE 1 COURSE – 3-4 CCAC CREDITS)	
Intro to Game Design & Web Development	MMC 160 – Game Design & Sim 1 – 3CR CIT 125 – Web Development – 3 CR
Introduction to Cybersecurity	CIT 115 – Intro to Info Technology – 3 CR CIT 175 – Cyberspace Vuln & Risks – 3 CR
AP Computer Science Principles	CIT 111 – Intro Prog: Java – 4 CR
Principles of Information Security Prevention (New for 2019-20)	CIT 181 – Principles of Info Security – 4 CR CIT 185 – Network Security – 3 CR
Computer Forensics with Intrusion Detection & Prevention (New for 2019-20)	CIT 180 – Computer Forensics 1 – 3 CR CIT 186 – Intrusion Detection & Prev – 3 CR
AP Computer Science A	CIT 130 – Obj Orien Prog 1: Java – 4 CR
Programming In C & C++ (New for 2020-21)	CIT 145 – Program in C – 3 CR CIT 245 – Data Str & Prog In C++ – 4 CR
Advanced Cybersecurity Topics (New for 2020-21)	CIT 282 – Adv Cybersecurity Topics – 3 CR CIT 285 – Cybersecurity Capstone – 3 CR
HUMANITIES ELECTIVE OPTIONS (1 COURSE – ORAL COMMUNICATION & INTERPRETATIONS COVERS REQUIREMENT – 3 CCAC CREDITS)	
Oral Communications & Interpretation (New for 2019-20)	SPH 101 – Oral Communications – 3 CR SPH 202 – Oral Interpretation – 3 CR
AP English Literature & Composition	ENG 115 – General Literature – 3 CR
Honors EC Art IV	ART 109 – Drawing 1 – 3 CR
CULTURAL COMPETENCY ELECTIVE OPTIONS (CHOOSE 1 COURSE – 3 CCAC CREDITS)	
Honors EC German IV	GER 101 – Elementary German 1 – 3 CR
Honors EC Spanish IV	SPA 101 – Elementary Spanish 1 – 3 CR
GENERAL ELECTIVE OPTIONS (CHOOSE 1-2 COURSE – 6 CCAC CREDITS)	
Manufacturing 1	MEC 100 – Safety & Quality – 3 CR MEC 102 – Industrial Processes – 3 CR
Home Systems (New for 2019-20)	MEC 103 – Fundamentals of Electricity – 3 CR MEC 104 – Mechanical Systems MEC – 3 CR
Intro to Data Analytics with Python (New for 2020-21)	DAT 102 – Intro to Data Analytics – 3 CR DAT 119 – Python 1 – 3 CR
Developing Multimedia Websites	MMC 111 – Dev Images for Web – 3 CR MMC 112 – Audio & Video Web – 3 CR MMC 150 – Prog with Javascript – 3 CR
Fluid Robotics (New for 2020-21)	MEC 112 – Introduction to Robotics – 3 CR MEC 150 – Fluid Power – 3 CR
Digital Electronics	MEC 106 – Industrial Power Systems – 3 CR MEC 110 – Digital Electronics – 3 CR
Programming Logic Controllers (New for 2020-21)	MEC 108 – Prog. Logic Controllers 1 – 3 CR MEC 156 – Motors and Motor Control – 3 CR
Criminal Justice & Investigations (New for 2019-20)	CJC 101 – Intro to Criminal Justice – 3 CR CJC 201 – Fund of Criminal Invest – 3 CR
3D Modeling	MMC 260 – MAYA for Gaming 1 – 3 CR MMC 270 – MAYA for Gaming 2 – 3 CR
3D Game Development	MMC 250 – 3D Design for Gaming – 3CR
Game Production & Marketing	MMC 228 – Instrut Design – 3 CR
Virtual Reality (New for 2020-21)	MMC 170 – Game Design & Sim 2 – 3 CR

# Early College In High School Academy



## Mechatronics Technology

### Prepare for Tomorrow's Manufacturing Careers Today

Through the Early College in High School Academy, a unique partnership with Community College of Allegheny County, West Allegheny High School is excited to offer a Mechatronics Technology Program. This distinct opportunity allows our students to complete their first year or two of college by earning a college certificate while also attaining a WA high school diploma.

For students interested in advanced manufacturing, mechatronics is a growing field that requires the technical skills necessary to work with industrial robots, programmable logic controllers and other automated equipment.

#### College Credits Available

The Mechatronics Technology college certificate program consists of **30** college credits earned through **five** (5) West Allegheny courses.

#### Career Opportunities

Graduates of the Mechatronics Technology Program will be prepared to pursue careers in advanced manufacturing, systems integration, electromechanics, process control and industrial maintenance, as well as serve as technicians in supply chain, electronics, instrumentation, robotics and automation.

#### Career Demand

According to 2017/2018 data, annual job openings in the mechatronics field were 1,258 regionally and 15,078 nationally, a 7.4% and 12.3% increase respectively. The median hourly earnings were \$35.21 regionally and \$37.68 nationally. These numbers are anticipated to grow over the next decade.

#### Benefits of the Early College In High School Academy Mechatronics Technology Program

- In five (5) West Allegheny courses, students complete 10 CCAC courses earning 30 college credits and complete the Mechatronics Certificate program, while earning up to four industry credentials/certifications.
- Students have the opportunity to earn a Mechatronics Technology Certificate in two (2), three (3) or four (4) years.
- Courses are taught at West Allegheny High School by our teachers certified as CCAC adjunct professors during the regular school day, while students earn credits toward their WA diploma.
- Any student enrolled in the certificate program will receive a 50% or 100% academic scholarship to fund certificate completion (students must maintain a 2.8 GPA and a minimum of 90% attendance). Families will be responsible to pay up to \$56.50\* per CCAC course.
- Students who elect to take courses as concurrent enrollment only, will be responsible for an associated cost of \$113\* per CCAC course as compared to \$425\* for a four-credit course as well as a one-time \$25 matriculation fee.
- Students are eligible for all benefits available to CCAC students including access to the library, Math Café, and Writing Labs.

\*Costs are subject to change based on CCAC tuition costs.



**MECHATRONICS TECHNOLOGY CERTIFICATE  
4 YEAR PROGRESSION – 5 WA COURSES (10 CCAC COURSES) – 30 CCAC CREDITS**

YEAR 1		INDUSTRY CREDENTIALS
Manufacturing 1	MEC 100 – Safety and Quality – 3 CR MEC 102 – Industrial Processes – 3 CR	Certified Production Technician (CPT) Credential
Home Systems (New for 2019-20)	MEC 103 – Fundamentals of Electricity – 3 CR MEC 104 – Mechanical Systems MEC – 3 CR	PMMI Mechatronics: Mechanical Components 1
<b>12 CCAC CREDITS</b>		
YEAR 2		CREDENTIALS POSSIBLE
Fluid Robotics (New for 2020-21)	MEC 112 – Introduction to Robotics – 3 CR MEC 150 – Fluid Power – 3 CR	
<b>6 CCAC CREDITS</b>		
YEAR 3		CREDENTIALS POSSIBLE
Digital Electronics	MEC 106 – Industrial Power Systems – 3 CR MEC 110 – Digital Electronics – 3 CR	
<b>6 CCAC CREDITS</b>		
YEAR 4		CREDENTIALS POSSIBLE
Programming Logic Controllers (New for 2020-21)	MEC 108 – Programming Logic Controllers 1–3 CR MEC 156 – Motors and Motor Control –3 CR	PMMI Mechatronics: Program. Logic Controllers 1 PMMI Mechatronics: Industrial Electricity 1
<b>6 CCAC CREDITS</b>		

**MECHATRONICS TECHNOLOGY CERTIFICATE  
3 YEAR PROGRESSION – 5 WA COURSES (10 CCAC COURSES) – 30 CCAC CREDITS**

YEAR 1		CREDENTIALS POSSIBLE
Manufacturing 1	MEC 100 – Safety and Quality – 3 CR MEC 102 – Industrial Processes – 3 CR	Certified Production Technician (CPT) Credential
Home Systems (New for 2019-20)	MEC 103 – Fundamentals of Electricity – 3 CR MEC 104 – Mechanical Systems MEC – 3 CR	PMMI Mechatronics: Mechanical Components 1
<b>12 CCAC CREDITS</b>		
YEAR 2		CREDENTIALS POSSIBLE
Fluid Robotics (New for 2020-21)	MEC 112 – Introduction to Robotics – 3 CR MEC 150 – Fluid Power – 3 CR	
Digital Electronics	MEC 106 – Industrial Power System s– 3 CR MEC 110 – Digital Electronics – 3 CR	
<b>12 CCAC CREDITS</b>		
YEAR 3		CREDENTIALS POSSIBLE
Programming Logic Controllers (New for 2020-21)	MEC 108 – Programming Logic Controllers 1 – 3CR MEC 156 – Motors and Motor Control – 3 CR	PMMI Mechatronics: Program. Logic Controllers 1 PMMI Mechatronics: Industrial Electricity 1
<b>6 CCAC CREDITS</b>		

**MECHATRONICS TECHNOLOGY CERTIFICATE  
2 YEAR PROGRESSION – 5 WA COURSES (10 CCAC COURSES) – 30 CCAC CREDITS  
Starting in 2021-2022 school year**

YEAR 1		CREDENTIALS POSSIBLE
Manufacturing 1	MEC 100 – Safety & Quality – 3 CR MEC 102– Industrial Processes – 3 CR	Certified Production Technician (CPT) Credential
Home Systems (New for 2019-20)	MEC 103 – Fundamentals of Electricity MEC 104 – Mechanical Systems MEC	PMMI Mechatronics: Mechanical Components 1
Digital Electronics	MEC 106 – Industrial Power Systems – 3 CR MEC 110 – Digital Electronics – 3 CR	
<b>18 CCAC CREDITS</b>		
YEAR 2		CREDENTIALS POSSIBLE
Fluid Power (New for 2020-21)	MEC 112 – Introduction to Robotics – 3 CR MEC 150 – Fluid Power – 3 CR	
Programming Logic Controllers (New for 2020-21)	MEC 108 – Programming Logic Controllers 1 –3 CR MEC 156 – Motors and Motor Control – 3 CR	PMMI Mechatronics: Program. Logic Controllers 1 PMMI Mechatronics: Industrial Electricity 1
<b>12 CCAC CREDITS</b>		

Please visit your school counselor to learn more about enrollment options.

# Early College In High School Academy



## Multimedia Game Simulation

### Creativity Meets Technology in Multimedia Game Simulation

Through the Early College in High School Academy, a unique partnership with Community College of Allegheny County, West Allegheny High School is excited to offer a Multimedia Game Simulation program. This dynamic opportunity allows our students to complete their first year or two of college by earning a college certificate or associate degree in multimedia programming simulation while also attaining a WA high school diploma.

The Multimedia Game Simulation program provides opportunities to learn about the game design and simulation practices. Additionally, students are exposed to industry standard hardware, software and development pipelines, beginning with frameworks and project practices, then moving into design and implementation.

#### Course Credits

The Multimedia Game Simulation program offers the flexibility of earning either a certificate or an associate degree. The certificate program consists of **27** college credits earned in **six (6)** West Allegheny courses. The associate degree consists of **62** college credits earned in **13** West Allegheny courses.

#### Career Opportunities

As with most technology-based careers, multimedia gaming opportunities continue to evolve. Multimedia gaming careers traditionally involve creating two- and three-dimensional models, animation, and visual effects for video games and other forms of media.

#### Career Demand

According to 2017/2018 data, annual job openings in the multimedia game simulation field were 1,144 regionally and 13,376 nationally. The median hourly earnings were \$32.27 regionally and \$33.83 nationally. These numbers are anticipated to grow by 8% regionally and 13.3% nationally over the next decade.

#### Benefits of the Early College In High School Academy Multimedia Game Simulation Program

- In six (6) West Allegheny courses, students complete nine (9) CCAC courses earning 27 college credits and complete the Multimedia Game Simulation Certificate program. In 13 West Allegheny courses, students complete 19 CCAC courses earning 62 college credits and complete the Multimedia Game Simulation Associate Degree program.
- Students have the opportunity to earn either the Multimedia Game Simulation certificate or associate degree in three (3) or four (4) years.
- Courses are taught at West Allegheny High School by our teachers certified as CCAC adjunct professors during the regular school day, while students earn credits toward their WA diploma.
- Any student enrolled in the certificate or associate program will receive a 50% or 100% academic scholarship to fund program completion (students must maintain a 2.8 GPA and a minimum of 90% attendance). Families will be responsible to pay up to \$56.50\* per CCAC course.
- Students who elect to take courses as concurrent enrollment only, will be responsible for an associated cost of \$113\* per CCAC course as compared to \$425\* for a four-credit course as well as a one-time \$25 matriculation fee.
- Students are eligible for all benefits available to CCAC students including access to the library, Math Café, and Writing Labs.

\*Costs are subject to change based on CCAC tuition costs.



**MGS Certificate - 4 Year Progression**  
**6 WA Courses (9 CCAC Courses) – 27 Credits**

**Year 1**

Intro to Game Design & Web Development  
MMC 160 – Game Design and Sim. 1 – 3 CR  
CIT 125 – Web Development – 3 CR

**Year 2**

Gamemaker Programming - WA Only  
Developing Multimedia Websites  
MMC 111 – Dev. Images for Web – 3 CR  
MMC 112 – Audio and Video Web – 3 CR  
MMC 150 – Program with Javascript – 3 CR

**Year 3**

3D Game Development  
MMC 250 – 3D Design for Gaming – 3 CR  
3D Modeling  
MMC 260 – Maya for Gaming 1 – 3 CR  
MMC 270 – Maya for Gaming 2 – 3 CR

**Year 4**

Game Production & Marketing  
MMC 228 – Instruct Design – 3 CR

**MGS Certificate - 3 Year Progression**  
**6 WA Courses (9 CCAC Courses) – 27 Credits**

**Year 1**

Intro to Game Design & Web Development  
MMC 160 – Game Design and Sim. 1 – 3 CR  
CIT 125 – Web Development – 3 CR  
3D Modeling  
MMC 260 – Maya for Gaming 1 – 3 CR  
MMC 270 – Maya for Gaming 2 – 3 CR

**Year 2**

Gamemaker Programming - WA Only  
Developing Multimedia Websites  
MMC 111 – Dev. Images for Web – 3 CR  
MMC 112 – Audio and Video for Web – 3 CR  
MMC 150 – Program with Javascript – 3 CR

**Year 3**

3D Game Development  
MMC 250 – 3D Design for Gaming – 3 CR  
Game Production & Marketing  
MMC 228 – Instruct Design – 3 CR

**MGS Associate - 4 Year Progression**  
**13 WA Courses (19 CCAC Courses) – 62 Credits**

**Year 1**

Intro to Game Design & Web Development  
MMC 160 – Game Design and Sim. 1 – 3 CR  
CIT 125 – Web Development – 3 CR  
Honors EC Algebra II – MUST Pass CCAC Placement Test  
Placement of the course will vary based students course progression  
MAT 108 – Intermediate Algebra – 4CR

**Year 2**

AP Computer Science Principles  
CIT 111 – Intro Prog: Javascript – 4 CR  
Developing Multimedia Websites  
MMC 111 – Dev. Images for Web – 3 CR  
MMC 112 – Audi & Video for Web – 3 CR  
MMC 150 – Program w/Javascript – 3 CR

**Year 3**

3D Game Development  
MMC 250 – 3D Design for Gaming – 3 CR  
3D Modeling  
MMC 260 – Maya for Gaming 1 – 3 CR  
MMC 270 – Maya for Gaming 2 – 3 CR  
AP Computer Science A  
CIT 130 – Obj. Orien. Prog. 1: Java – 4 CR  
AP English Language and Composition – MUST Pass CCAC Placement Test  
ENG 101 – English Comp. 1 – 3 CR  
ENG 102 – English Comp. 2 – 3 CR  
AP Physics 1 – MUST Pass MAT 108 (Honors Algebra II)  
PHY 141 – Physics 1 – 4 CR

**Year 4**

Programming in C & C++ (New for 2020-21)  
CIT 145 – Program In C – 3 CR  
CIT 245 – Data Str. & Prog. In C++ – 4 CR  
Virtual Reality (New for 2020-2021)  
MMC 170 – Game Design & Simulation 2 – 3 CR  
AP Psychology  
PSY 101 – Intro to Psychology – 3 CR  
Game Production & Marketing  
MMC 228 – Instruct Design – 3 CR

**MGS Associate - 3 Year Progression**  
**13 WA Courses (19 CCAC Courses) – 62 Credits**

**Year 1**

Intro to Game Design & Web Development  
MMC 160 – Game Design and Sim. 1 – 3 CR  
CIT 125 – Web Development – 3 CR  
Honors EC Algebra II – MUST Pass CCAC Placement Test  
Placement of the course will vary based students course progression  
MAT 108 – Intermediate Algebra – 4CR  
AP Computer Science Principles  
CIT 111 – Intro to Prog: Javascript – 4 CR

**Year 2**

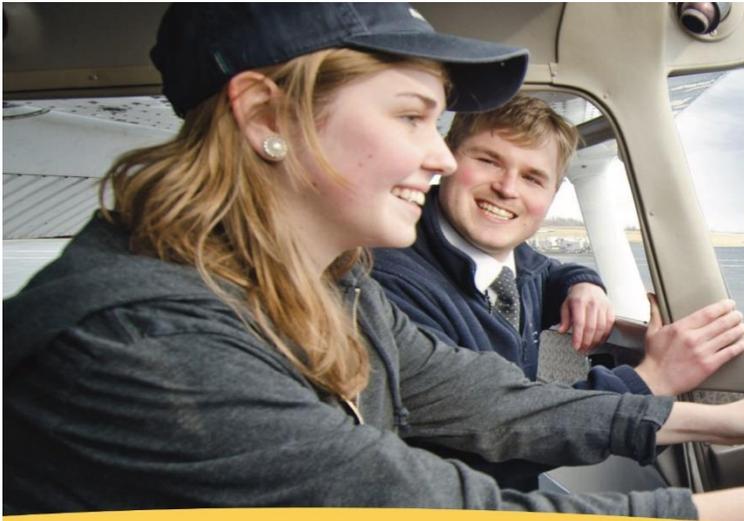
Developing Multimedia Websites  
MMC 111 – Dev. Images for Web – 3 CR  
MMC 112 – Audio & Video for Web – 3 CR  
MMC 150 – Program w/Javascript – 3 CR  
3D Modeling  
MMC 260 – Maya for Gaming 1 – 3 CR  
MMC 270 – Maya for Gaming 2 – 3 CR  
3D Game Development  
MMC 250 – 3D Design for Gaming – 3 CR  
AP Computer Science A  
CIT 130 – Obj. Orien. Prog. 1 – Java – 4 CR  
AP English Language and Composition – MUST Pass CCAC Placement Test  
ENG 101 – English Comp. 1 – 3 CR  
ENG 102 – English Comp. 2 – 3 CR  
AP Physics 1 - MUST Pass MAT 108 (Honors Algebra II)  
PHY 141 – Physics 1 – 4 CR

**Year 3**

Programming In C & C++ (New for 2020-21)  
CIT 145 – Program In C – 3 CR  
CIT 245 – Data Str. & Prog. In C++ – 4 CR  
Virtual Reality (New for 2020-2021)  
MMC 170 – Game Design & Simulation 2 – 3 CR  
AP Psychology  
PSY 101 – Intro to Psychology – 3 CR  
Game Production & Marketing  
MMC 228 – Instruct Design – 3 CR

Please visit your school counselor to learn more about enrollment options.

# Aviation Academy



## CCBC AVIATION ACADEMY

We Build Dreams • We Train Professionals

### CURRICULUM: 28 CREDITS

AVIATION SCIENCES CENTER: CHIPPEWA & BUTLER CO.

#### FIRST SEMESTER: 7 CREDITS

CODE	CLASS	CREDITS
AVIP100	TITAN TRANSITION	1
AVIP102	INTRO TO AVIATION	3
WRIT101	ENGLISH COMPOSITION	3

#### SECOND SEMESTER: 7 CREDITS

AVIP110	FLIGHT THEORY	4
AVIP123	AERONAUTICAL KNOWLEDGE	3

#### THIRD SEMESTER: 7 CREDITS

AVIP101	HISTORY OF AVIATION	3
MATH126	STATISTICS	4

#### FOURTH SEMESTER: 7 CREDITS

AVIP121	AVIATION METEOROLOGY	3
AVIP301	AVIATION CAPSTONE	1
CIST100	INTRO TO INFO TECH	OR
LITR210	CONCEPTS OF LITERATURE	3

#### PARKWAY WEST CTC

#### FIRST SEMESTER: 7 CREDITS

CODE	CLASS	CREDITS
AVIP100	TITAN TRANSITION	1
AVIP102	INTRO TO AVIATION	3
WRIT101	ENGLISH COMPOSITION	3

#### SECOND SEMESTER: 7 CREDITS

AVIP110	FLIGHT THEORY	4
AVIP123	AERONAUTICAL KNOWLEDGE	3

#### THIRD SEMESTER: 7 CREDITS

AVIP101	HISTORY OF AVIATION	3
AVIP301	AVIATION CAPSTONE	1
CIST100	INTRO TO INFO TECH	OR
LITR210	CONCEPTS OF LITERATURE	3

#### FOURTH SEMESTER: 7 CREDITS

AVIP121	AVIATION METEOROLOGY	3
MATH126	STATISTICS	4

*Courses and/or Course Codes are subject to change. Revised 01/2019*

Do you want to learn how to fly a plane, help pilots safely land and take off, or pilot a drone?

Do you desire to explore high demand, high pay, and exciting career fields?

**CCBC's Aviation Academy is the place for your education to take-off and soar to new heights.**

The CCBC Aviation Academy is the only program in the United States that offers high schools students the opportunity to explore Professional Pilot, Air Traffic Control, and Unmanned Aerial Vehicles career paths.

You'll gain hands-on experience in the air and the classroom at our locations at the Aviation Sciences Center at the Beaver County Airport, Parkway West Career & Technology Center in Allegheny County and at the Butler Airport in Butler County - all while earning up to 28 college credits before high school graduation.

#### BENEFITS

- Exploring high-demand aviation career pathways
- Earning up to 28 college credits while still in high school
- Learning from experienced college faculty members with extensive aviation backgrounds.
- Accomplishing actual aircraft flying
- Completing a Private Pilot's certification and Instrument Flight rating

#### REQUIREMENTS

- Students in grades 11 and 12 with a minimum GPA of 2.5
- Make sure to also check your school district's eligibility guidelines.

#### HOW TO ENROLL

- Contact your school's guidance office for enrollment information.
- Scholarships are available for qualified students.
- Submit CCBC Aviation Academy application.

#### TO LEARN MORE ABOUT THE AVIATION ACADEMY

- Aviation Academy Champion:
  - **724-480-3617**
  - [aviationchampion@ccbc.edu](mailto:aviationchampion@ccbc.edu)

\*All courses meet at Parkway West Career & Technology Center.



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## Parkway West Career & Technology Center Programs and Industry Certifications

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Parkway West Career & Technology Center (CTC) currently offers fifteen different programs, most of which include the option to earn workforce certification. Students who choose to attend Parkway West CTC will spend five periods at West Allegheny High School to complete their core course requirements as well as their lunch period and four periods at Parkway West CTC to complete their elective credits. Students who successfully complete a program at Parkway West CTC as part of the fulfillment of West Allegheny graduation requirements will receive a West Allegheny High School diploma as well as a certificate of completion from Parkway West CTC. The fifteen program options and possible workforce industry certifications are listed below. A more detailed description of each program can be found in the course description section of this document.

### PROGRAMS AND POSSIBLE INDUSTRY CERTIFICATIONS

#### **Auto Body Repair**

- 40 CFR Part 63 Certificate
- PPG Blue Level Certificate (one of two secondary schools in the U.S.)
- SP/2 Mechanical Safety Certificate
- SP/2 Collision Pollution Prevention Certificate
- SP/2 Collision Safety Certificate
- SP/2 Heavy Duty Fleet Safety Certificate
- SP/2 Supervisors Course Certificate
- PA Skills Certificate

#### **Automotive Technology**

- MACS Section 609 Certificate
- SP/2 Mechanical Safety Certificate
- SP/2 Collision Safety Certificate
- PA State Inspection Certificate
- PA State Emissions Inspection Certificate
- PA Skills Certificate

#### **Building Construction Technology**

- OSHA 10 Hour Certificate
- PA Skills Certificate

#### **Cosmetology**

- PA Licensed Cosmetologist
- Nail Technician Certificate
- Cosmetology Instructor License
- PA Skills Certificate

#### **Culinary Arts**

- ServSafe Certificate
- CPR Certificate
- ACF Junior Culinarian Certificate
- PA Skills Certificate

#### **Diesel Technology**

- TBD

#### **Digital Multimedia**

- Adobe Certified Associate in Visual Communication Certificate
- Adobe Certified Associate in Web Communication Certificate
- Adobe Certified Associate in Rich Media Certificate
- PA Skills Certificate

#### **Electrical Systems Technology**

- OSHA 10 Hour Certificate
- PA Skills Certificate

#### **Health Assistant**

- PA Department of Health Personal Care Home Direct Care Staff Certificate
- CPR for Health Care Providers
- PA Department of Education Nurse Aide Registry Certificate
- Pharmacy Technician Certificate
- Phlebotomy Technician
- PA Skills Certificate

#### **Heating, Ventilation, Air Conditioning and Refrigeration (HVAC/R)**

- OSHA 10 Hour Certificate
- PA Skills Certificate



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## Parkway West Career & Technology Center

### Industry Certifications

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#### **Information Technology Essentials**

- CISCO CCENT Certificate
- CISCO CCNA Certificate
- CompTIA A+ Certificate
- CompTIA Network+ Certificate
- PA Skills Certificate

#### **Public Safety Technology**

- CPR for Health Care Providers Certificate
- Hazardous Materials Operations Certificate
- Hazmat Awareness Certificate
- Basic Rigging for Rope Rescue Certificate
- Practical & Tactical Handcuffing Certificate
- Personal Protection Baton Tactics Certificate
- NIMS 100 Intro to Incident Command Certificate
- NIMS 200 ICS for Single Resources Incident Certificate
- NIMS 700 National Response Management Certificate
- Emergency Medical Technician – Basic Certificate
- Basic Vehicle Rescue Certificate
- Emergency Vehicle Operators Course Certificate
- PA Skills Certificate

#### **Sports Medicine & Rehabilitation Therapy Technology (SMARTT)**

- CPR
- First Aid
- ACSM (Certified Personal Trainer)

#### **Veterinary Technology**

- Animal Friends Handling Certificate
- Purina Weight Coach Certificate
- Pet Tech First Aid and CPR Certificate
- OSHA General Certificate
- National Veterinary Assistant Certification
- PA Skills Certificate

#### **Welding Technology**

- OSHA 10 Hour Certificate
- AWS Vertical Certified Welding
- ASME B31.1 Certificate
- PA Skills Certificate



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## West Allegheny Learning Center WALC

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The West Allegheny Learning Center (WALC) is a comprehensive academic program designed to meet the needs of students who may be more successful learning in a non-traditional setting, while focusing on college and career readiness. As an alternative education program, WALC focuses on the individual learner. The WALC program provides an engaging learning environment for high school students offered on campus during school hours. Through the support and encouragement of our highly motivated staff, the WALC program works to instill pride through academic success by:

- Focusing on individual learning needs
- Providing academic support
- Providing a safe and nurturing learning environment
- Remediating and/or accelerating students to meet graduation requirements
- Ensuring all students are connected to and ready for career/college opportunities

The WALC Program is a unique alternative to the West Allegheny Virtual Academy — a cyber-school option provided by the West Allegheny School District.

### **HOW ARE STUDENTS SELECTED?**

WALC students are selected through a collaborative process with school counselors, administrators, parents and eligible students who meet to determine if the WALC program would be a good fit for the student. WALC is a voluntary program with both student and parent agreement required for participation in this alternative program.

### **ACADEMICS**

Students in the WALC program are enrolled in a course of study aligned to the West Allegheny curriculum, however the classroom environment is structured to provide added assistance and support. Courses in mathematics, science, English, and social studies comprise the core curriculum. Key to the program's approach and success is the dedication and enthusiasm of the WALC teachers, who are committed to supporting students in an alternative education program at West Allegheny. In addition, pathways to career connections is a primary focus in conjunction with the Parkway West Career and Technology Center, JROTC and approved work study programs.

### **ON-LINE LEARNING**

The WALC program incorporates the same coursework and assessments as the WAVA program through the Edmentum PLATO Learning software. PLATO Learning provides a digital curriculum in math, science, English, social studies, world languages and electives. The program allows students to learn at their own pace and recover credits faster, helping them get back on track in order to graduate on time.

### **WALC CAREER AND ACADEMIC COUNSELING**

All WALC students engage in bi-weekly career and academic counseling sessions intended to help students navigate through critical decision-making processes and focus on connecting to a viable career/college pathway. Through open communication, discussions include the examination of topics commonly facing teenagers and guidance on how to make positive choices. Such topics include teenage drug and alcohol use, goal setting, and social networking. WALC also provides opportunities for guest speakers to help students explore career opportunities. Additionally, while enrolled in WALC, students have the opportunity to participate in West Allegheny's 40+ extra-curricular athletic teams and 25+ clubs and activities. Participation in activities helps promote valuable social skills, which can carry over to career settings.



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## West Allegheny Virtual Academy WAVA

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The West Allegheny Virtual Academy (WAVA) provides a flexible learning option for students in grades K – 12. We recognize that students have diverse learning needs and the WAVA program endeavors to help meet those needs.

WAVA offers a variety of courses aligned to the West Allegheny School District curricula. Students can engage in online learning in a variety of ways:

**Full-time:** WAVA provides a fully online educational program, which students can work on anytime, anywhere; yet still enjoy the benefits of West Allegheny’s highly qualified teachers facilitating their courses. WAVA students will work with their school counselor to guide them through their school years, assisting with course selection and career/college readiness.

**Part-time:** With flexible scheduling, students can elect to spend a portion of their day physically attending classes with their peers while completing other classes online.

**Hybrid:** The hybrid option provides students the opportunity to take one or two courses online. Students may choose this option due to scheduling conflicts, for enrichment opportunities or to enroll in courses only offered through WAVA.

West Allegheny Virtual Academy students have access to the same resources as traditional students. They may participate in extra-curricular activities and athletics offered by the District. Additionally, as a West Allegheny student, WAVA learners will earn a West Allegheny diploma and participate in the West Allegheny commencement exercises upon completion of the graduation requirements. WAVA is free to all West Allegheny students.

West Allegheny Virtual Academy students have the flexibility to pursue their own unique talents and passions. Often times, a student isn’t able to pursue these opportunities while trying to fit in the traditional classroom schedule. The West Allegheny Virtual Academy allows students the ability to work toward their goals and still maintain their connections to West Allegheny School District.

West Allegheny Virtual Academy is taught by highly qualified, PA certified West Allegheny teachers and is available 24 hours a day, seven days a week. Students interested in enrolling in WAVA may complete the application found on the district’s website and should contact their school counselor or, Mrs. Toni Baldanzi, Supervisor of Ancillary Programs, to schedule a meeting to review the appropriateness of WAVA.

# COURSE LIST

The following is a list of all courses offered at West Allegheny High School. The list is alphabetical by department with Parkway West Career & Technology Center programs and special options at West Allegheny listed at the end. [Clicking on the name of each department in this course list will directly link you to that department's course descriptions.](#) Additionally, [clicking on the course title in the red header on each page of the department's descriptions will link you back to the course list.](#)

*	Course weighted on a 4.5 GPA scale
**	Course weighted on a 5.0 GPA scale
⌘	Course eligible for college credit through the Community College of Allegheny County as part of the Early College in High School Academy
⌘⌘	Awaiting final approval from CCAC
✓	Course eligible for industry based credential
<b>BOLD TYPE</b>	Course may count toward core course credit required for graduation – see the graduation requirements page for more information

## AP CAPSTONE PROGRAM

- 0200 AP Seminar\*\*  
0201 AP Research\*\*

## BUSINESS, COMPUTER and INFORMATION TECHNOLOGY

### EARLY COLLEGE IN HIGH SCHOOL ACADEMY CYBERSECURITY

- 0630 Introduction to Cybersecurity\*\*⌘ (6 credits)  
0631 Principles of Information Security\*\*⌘ (7 credits) ✓  
0632 Computer Forensics with Intrusion Detection & Prevention\*\*⌘ (6 credits)  
**Advanced Cybersecurity Topics\*\*⌘ (6 credits)**  
*Starting 2020-2021*  
**Intro to Data Analytics with Python\*\*⌘ (6 credits)**  
*Starting 2020-2021*

### EARLY COLLEGE IN HIGH SCHOOL ACADEMY MULTIMEDIA GAMES SIMULATION

- 0620 Introduction to Game Design & Web Development\*\*⌘ (6 credits)  
0621 GameMaker Programming  
0622 Developing Multimedia Websites\*\*⌘ (9 credits)  
0623 3D Modeling\*\*⌘ (6 credits)  
**0624 Game Production & Marketing\*\*⌘ (3 credits)**  
**0625 3D Game Development\*\*⌘ (3 credits)**  
Virtual Reality\*\*⌘ (3 credits)  
*Starting 2020-2021*

### BUSINESS

- 0606 Principles of Business  
0607 Career, Personal and Financial Success  
0608 Accounting  
0609 Business Ownership/Entrepreneurship  
0610 Principles of Marketing  
**0612 CHS Financial Accounting\*\***

### COMPUTER SCIENCE

- 0616 Introduction to Programming (Sem)  
**0617 AP Computer Science Principles\*\*⌘ (4 credits)**  
**0618 AP Computer Science A\*\*⌘ (4 credits)**  
**Programming in C & C++ \*\*⌘ (7 credits)**  
*Starting 2020-2021*

## ENGINEERING and TECHNOLOGY EDUCATION

### EARLY COLLEGE IN HIGH SCHOOL ACADEMY

#### MECHATRONICS

- 0711 Manufacturing I\*\*⌘ (6 credits) ✓  
0707 Home Systems\*\*⌘ (6 credits) ✓  
**0716 Digital Electronics\*\*⌘ (6 credits)**  
Fluid Robotics\*\*⌘ (6 credits)  
*Starting 2020-2021*  
Programming Logic Controllers\*\*⌘ (6 credits) ✓  
*Starting 2020-2021*

### PROJECT LEAD THE WAY ENGINEERING

- 0714 Intro to Engineering Design\*\*  
0715 Principles of Engineering\*\*  
**0717 Environmental Sustainability\*\***  
**0718 Civil Engineering & Architecture\*\***  
**0719 Engineering Design & Development – Capstone Course\*\***

### TECHNOLOGY EDUCATION

- 0706 Drawing and Design for Engineering & Architecture  
0708 CADD I  
0709 CADD II  
0710 CADD III  
0712 Manufacturing Technology II  
0713 Do It Yourself (DIY)

## ENGLISH LANGUAGE ARTS

- 0101 Academic English 9  
0106 Pre-AP/Honors English 9\*  
0111 Academic English 10  
0112 Pre-AP/Honors English 10\*  
0121 College Readiness English 11  
0122 AP English Language & Composition\*\*⌘ (6 credits)  
0129 Career Readiness English I  
0130 Career Readiness English II  
0131 College Readiness English 12  
0132 AP English Literature & Composition\*\*⌘⌘ (3 credits)  
0151 Oral Communications & Interpretation\*\*⌘ (6 credits)

# COURSE LIST

The following is a list of all courses offered at West Allegheny High School. The list is alphabetical by department with Parkway West Career & Technology Center programs and special options at West Allegheny listed at the end. [Clicking on the name of each department in this course list will directly link you to that department's course descriptions.](#) Additionally, [clicking on the course title in the red header on each page of the department's descriptions will link you back to the course list.](#)

*	Course weighted on a 4.5 GPA scale
**	Course weighted on a 5.0 GPA scale
⌘	Course eligible for college credit through the Community College of Allegheny County as part of the Early College in High School Academy
⌘⌘	Awaiting final approval from CCAC
✓	Course eligible for industry based credential
<b>BOLD TYPE</b>	Course may count toward core course credit required for graduation – see the graduation requirements page for more information

## FAMILY and CONSUMER SCIENCES

0720	Exploring Foods
0721	Adventures in Food
0722	Baking Around the World
0724	Food for Sport
0725	Financial Literacy: Surviving the Real World
0726	Interior Design & Textiles
0727	Relationships & Parenting
0728	Dynamic Living
0732	Child Development I ✓
0733	Child Development II

## PHYSICAL EDUCATION and HEALTH

0800	Physical Education 9 (Sem – 3-day)
0801	Health & Wellness 9 (Sem – 3-day)
0802	Physical Education 10 (Sem – 3-day)
0803	Health & Wellness 10 (Sem – 3-day)
0804	Team Sports (3-day)
0805	Personal Fitness and Sport (3-day)
0806	Games and Leisure Activities (3-day)
0807	Aerobic Fitness (3-day)
0820	Physical Conditioning (3-day option – 0821)
<b>0831</b>	<b>Exercise Science</b>

## MATHEMATICS

0308	Algebra I
0310	Geometry
0311	Advanced Geometry
0315	Algebra II
0316	Algebra II with Lab
0317	Honors EC Algebra II**⌘ (4 credits)
0319	Trigonometry & Precalculus
0320	Honors Trigonometry & Precalculus*
0321	Discrete Math
0322	Calculus
0323	AP Calculus AB**
0324	AP Statistics**

## SCIENCE

0402	Biology with Lab
0403	Honors Biology with Lab*
0404	Conceptual Chemistry
0405	Honors Chemistry with Lab*
0406	Conceptual Physics
0407	Physics
0408	Forensic Science
0409	Anatomy & Physiology*
0410	AP Biology**
0411	AP Chemistry**
0412	AP Physics 1**⌘ (4 credits)
0413	AP Physics 2**

## PERFORMING ARTS

0750	Band I (3-day option – 0751)
0753	Band II (3-day option – 0754)
0756	Band III <i>by audition only</i> (3-day option – 0757)
0759	Jazz Studies: Vocal (3-day)
0760	Jazz Studies: Instrumental (3-day)
0762	Beginning Piano (3-day)
0763	Intermediate Piano (3-day)
0764	Beginning Guitar (3-day)
0765	Intermediate Guitar (3-day)
0766	Chorus (3-day option – 0768)
0774	Show Choir <i>by audition only</i> (3-day option – 0775)
0777	Digital Audio Production I (3-day option – 0778)
0779	Digital Audio Production II (3-day option – 0780)
0785	Acting & Technical Theatre (3-day option – 0786)
0788	Theatre Costumes & Makeup (3-day option – 0789)
0792	Dance (3-day option – 0793)

## PROJECT LEAD THE WAY BIOMEDICAL SCIENCES

0422	Principles of the Biomedical Sciences**
0423	Human Body Systems**
0424	Medical Interventions**

# COURSE LIST

The following is a list of all courses offered at West Allegheny High School. The list is alphabetical by department with Parkway West Career & Technology Center programs and special options at West Allegheny listed at the end. [Clicking on the name of each department in this course list will directly link you to that department's course descriptions.](#) Additionally, [clicking on the course title in the red header on each page of the department's descriptions will link you back to the course list.](#)

*	Course weighted on a 4.5 GPA scale
**	Course weighted on a 5.0 GPA scale
⌘	Course eligible for college credit through the Community College of Allegheny County as part of the Early College in High School Academy
⌘⌘	Awaiting final approval from CCAC
✓	Course eligible for industry based credential
<b>BOLD TYPE</b>	Course may count toward core course credit required for graduation – see the <a href="#">graduation requirements page</a> for more information

## SOCIAL STUDIES

0210	U.S. History
0211	Honors U.S. History*
0212	U.S. History 9
0230	American Government
0232	AP U.S. Government & Politics**⌘ (3 credits)
0236	World Cultures (with Career Seminar)
0238	AP World History**
V239	AP United States History** (WAVA ONLY)
0240	AP Psychology** ⌘ (3 credits)
0242	AP Economics**
0243	Criminal Justice & Investigations**⌘ (6 credits)
0244	Psychology & Sociology
0246	Comparative Religions (Sem)
0247	Holocaust & Genocide Studies (Sem)
0249	Current Affairs (Sem)
0250	Sociology of Sports (Sem)
V251	African American Studies (Sem – WAVA ONLY)
V252	Native American Studies: Contemporary Perspectives (Sem – WAVA ONLY)
V253	Women's Studies (Sem – WAVA ONLY)

## WORLD LANGUAGES

0500	Spanish I
0501	Spanish II
<b>0502</b>	<b>Spanish III</b>
<b>0503</b>	<b>Honors EC Spanish IV**⌘⌘ (3 credits)</b>
<b>0504</b>	<b>AP Spanish Language &amp; Culture**</b>
V510	French I (WAVA ONLY)
V511	French II (WAVA ONLY)
<b>V512</b>	<b>French III (WAVA ONLY)</b>
<b>V513</b>	<b>French IV* (WAVA ONLY)</b>
<b>V514</b>	<b>AP French Language &amp; Culture** (WAVA ONLY)</b>
0520	German I
0521	German II
<b>0522</b>	<b>German III</b>
<b>0523</b>	<b>Honors EC German IV**⌘⌘ (3 credits)</b>
<b>0524</b>	<b>AP German Language &amp; Culture**</b>
0525	American Sign Language I
0526	American Sign Language II
V530	Mandarin Chinese I (WAVA ONLY)
V531	Mandarin Chinese II (WAVA ONLY)
<b>V532</b>	<b>Mandarin Chinese III (WAVA ONLY)*</b>

## USMC JUNIOR ROTC

0261	Beginning USMC Junior ROTC
0262	Intermediate USMC Junior ROTC
<b>0263</b>	<b>Advanced USMC Junior ROTC</b>

## VISUAL AND MEDIA ARTS

0740	Art I
0741	Art II
0742	Art III
0743	Honors EC Art IV**⌘⌘ (3 credits)
0744	AP Studio Art**
0748	Media Arts
0611	Yearbook
0749	Social Media & Broadcasting

## PARKWAY WEST CAREER and TECHNOLOGY CENTER

2501	Auto Body Repair
2502	Automotive Technology
2503	Construction Technology Cluster (1 <sup>st</sup> year)
2504	Building Construction Technology
2505	Electrical Systems Technology
2506	Heating, Ventilation, Air Conditioning & Refrigeration (HVAC/R)
2508	Welding Technology
2509	Cosmetology
2510	Culinary Arts
2511	Health Assistant
2512	Diesel Technology
2513	Digital Multimedia
2514	Information Technology Essentials
2515	Public Safety Technology
2516	Sports Medicine and Rehabilitation Therapy Technology (SMARTT)
2517	Veterinary Technology

## SPECIAL OPTIONS

Independent Study  
Dual Enrollment  
CCBC Aviation Academy  
Work Release

# WEST ALLEGHENY VIRTUAL ACADEMY COURSE LIST

The following is a list of all courses offered at West Allegheny Virtual Academy (WAVA). The list is alphabetical by department.

For more information on the West Allegheny Virtual Academy visit the WAVA page on the district's website

[http://www.westasd.org/westalleghenyvirtualacademy\\_home.asp](http://www.westasd.org/westalleghenyvirtualacademy_home.asp)

*	Course weighted on a 4.5 GPA scale
**	Course weighted on a 5.0 GPA scale
✓	Course eligible for industry based credential
#	Course <u>does not</u> count towards credit in the Early College in High School Academy (ECIHS)
<b>BOLD TYPE</b>	Course may count toward core course credit required for graduation – see the graduation requirements page for more information

## BUSINESS, COMPUTER and INFORMATION TECHNOLOGY

### BUSINESS

- V607 Career, Personal and Financial Success
- V609 Business Ownership/Entrepreneurship
- V612 Accounting**

### COMPUTER SCIENCE

- V616 Introduction to Programming (Sem)
- V627 3D Modeling II (Sem - WAVA ONLY)
- V630 Introduction to Cybersecurity (Sem) #

### GAMING COURSES - (Full-Time WAVA Students Only)

- V650 Introduction to Game Design and Mobile Apps #
- V653 3D Modeling #

## ENGLISH LANGUAGE ARTS

- V101 Academic English 9
- V111 Academic English 10
- V121 College Readiness English 11
- V129 Career Readiness English I
- V130 Career Readiness English II
- V131 College Readiness English 12
- V132 AP English Literature and Composition\*\*
- V150 Creative Writing (Sem)
- V151 Public Speaking (Sem)
- V154 Gothic Literature (Sem)

## MATHEMATICS

- V308 Algebra I
- V310 Geometry
- V315 Algebra II
- V316 Algebra II with Lab
- V319 Trigonometry/Precalculus
- V321 Discrete Math
- V322 Calculus

## PHYSICAL EDUCATION and HEALTH

- V800 Physical Education 9 (Sem)
- V801 Health and Wellness 9 (Sem)
- V802 Physical Education 10 (Sem)
- V803 Health and Wellness 10 (Sem)
- V805 Personal Fitness and Sport
- V806 Games and Leisure Activities
- V820 Physical Conditioning
- V831 Exercise Science**

## SCIENCE

- V402 Biology with Lab
- V403 Honors Biology\*
- V404 Conceptual Chemistry
- V405 Honors Chemistry\*
- V406 Conceptual Physics
- V407 Physics
- V408 Forensic Science
- V409 Anatomy and Physiology\*
- V410 AP Biology\*\*
- V411 AP Chemistry\*\*
- V425 Health Sciences
- V426 Introduction to Astronomy (Sem)
- V427 Introduction to Marine Biology (Sem)
- V428 Introduction to Veterinary Science (Sem)

## SOCIAL STUDIES

- 0210 U.S. History
- 0230 American Government
- 0236 World Cultures
- V239 AP United States History\*\* (WAVA ONLY)
- 0244 Psychology and Sociology
- 0246 Comparative Religions (Sem)
- 0247 Holocaust and Genocide Studies (Sem)
- 0249 Current Affairs (Sem)
- V251 African American Studies (Sem – WAVA ONLY)
- V252 Native American Studies: Contemporary Perspectives (Sem – WAVA ONLY)
- V253 Women's Studies (Sem – WAVA ONLY)

# WEST ALLEGHENY VIRTUAL ACADEMY COURSE LIST

The following is a list of all courses offered at West Allegheny Virtual Academy (WAVA). The list is alphabetical by department.

For more information on the West Allegheny Virtual Academy visit the WAVA page on the district's website

[http://www.westasd.org/westalleghenyvirtualacademy\\_home.asp](http://www.westasd.org/westalleghenyvirtualacademy_home.asp)

*	Course weighted on a 4.5 GPA scale
**	Course weighted on a 5.0 GPA scale
✓	Course eligible for industry based credential
#	Course <u>does not</u> count towards credit in the Early College in High School Academy (ECIHS)
<b>BOLD TYPE</b>	Course may count toward core course credit required for graduation – see the graduation requirements page for more information

## VISUAL, MEDIA, and PERFORMING ARTS

V703	Graphic Design and Illustration I (Sem)
V704	Graphic Design and Illustration II (Sem)
V740	Studio Art I
V741	Studio Art II
V748	Art Appreciation (Sem)
V748	Media Arts
V749	Introduction to Social Media (Sem)
V777	Introduction to Audio and Video Production (Sem)
V790	Music Appreciation (Sem)

## WORLD LANGUAGES

V500	Spanish I
V501	Spanish II
<b>V502</b>	<b>Spanish III</b>
<b>V503</b>	<b>Spanish IV*</b>
<b>V504</b>	<b>AP Spanish Language and Culture**</b>
V510	French I (WAVA ONLY)
V511	French II (WAVA ONLY)
<b>V512</b>	<b>French III (WAVA ONLY)</b>
<b>V513</b>	<b>French IV* (WAVA ONLY)</b>
<b>V514</b>	<b>AP French Language and Culture** (WAVA ONLY)</b>
V520	German I
V521	German II
<b>V522</b>	<b>German III</b>
V530	Mandarin Chinese I (WAVA ONLY)
V531	Mandarin Chinese II (WAVA ONLY)
<b>V532</b>	<b>Mandarin Chinese III* (WAVA ONLY)</b>

# AP CAPSTONE

AP Capstone™ is a College Board Program that equips students with the independent research, collaborative research, and communication skills that are increasingly valued by colleges. It cultivates curious, independent, and collaborative scholars and prepares them to make logical, evidence-based decisions.

AP Capstone is comprised of two AP courses — **AP Seminar** and **AP Research** — and is designed to complement and enhance the discipline-specific study in other AP courses. Participating schools can use the AP Capstone program to provide unique research opportunities for current AP students, or to expand access to AP by encouraging students to master the argument-based writing skills that the AP Capstone program develops.

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## AP SEMINAR

0200 1 CREDIT

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In this yearlong course, students develop and strengthen analytic and inquiry skills, exploring two to four relevant issues chosen by the student and/or teacher. For example, students might explore the question of whether national security is more important than a citizen's right to privacy, or whether genetic engineering is a benefit to society.

Using an inquiry framework, students practice reading and analyzing articles; research studies; foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to consider an issue from multiple perspectives, evaluate the strength of an argument, and make logical, fact-based decisions. Students question, research, explore, pose solutions, develop arguments, collaborate, and communicate using various media. After taking AP Seminar, students will have the opportunity to further hone their inquiry and analytical writing skills in AP Research.

AP Seminar students are assessed with two through-course performance tasks and one end-of-course exam. The performance tasks consist of a team project and presentation, and an individual research-based essay and presentation. All three assessments are summative and are used to calculate a final AP score of 1 to 5.

The two through-course performance tasks for AP Seminar are teacher-scored. The end-of-course exam is in May; it takes two hours and consists of three short-answer questions and one essay question. \*Students may earn a weighted grade on the 5.0 scale for this course.

*Grade level: 10, 11, 12*

❖ **This course may count toward a student's fourth social studies credit.**

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## AP RESEARCH

0201 1 CREDIT

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AP Research allows students to design, plan, and conduct a yearlong research-based investigation on a topic of individual interest, documenting their process with a portfolio. This allows students to demonstrate the ability to apply scholarly understanding to real-world problems and issues.

Students further the skills developed in AP Seminar by learning how to understand research methodology, employ ethical research practices, and access, analyze, and synthesize information to build, present, and defend an argument. Students may choose to do one of the following:

- Dig deeper into a topic studied in an AP course.
- Work across academic areas with an interdisciplinary topic.

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AP Capstone is comprised of two AP courses — **AP Seminar** and **AP Research** — and is designed to complement and enhance the discipline-specific study in other AP courses. Participating schools can use the AP Capstone program to provide unique research opportunities for current AP students, or to expand access to AP by encouraging students to master the argument-based writing skills that the AP Capstone program develops.

- Study a new area of interest, perhaps one for further study at the college level.

The AP Research course culminates in an academic paper of 4,000 to 5,000 words and a presentation with an oral defense. The two components of the through-course performance task are teacher-scored, and the academic paper is validated by the College Board after being scored. There is no end-of-course exam for AP Research.

For the oral defense, AP Research teachers should choose two additional adult panel members — expert advisers or discipline-specific experts. Both components are included in the calculation of a final AP score (using the 1–5 scale). \*Students may earn a weighted grade on the 5.0 scale for this course.

***Prerequisite:** Successful completion of AP Seminar*

***Grade level:** 11, 12*

# BUSINESS, COMPUTER AND INFORMATION TECHNOLOGY

The Business, Computer and Information Technology Department offers a variety of courses with the goal of providing realistic and relevant instruction for students seeking business and computer skills to function effectively in our economic system. Computer skills are vital for personal, academic, and professional success.

## EARLY COLLEGE IN HIGH SCHOOL ACADEMY

*West Allegheny High School has partnered with the Community College of Allegheny County to offer a concurrent enrollment program that allows students the opportunity to potentially earn college credits through courses taught at the high school. The Early College in High School Academy (ECIHSA) offers two programs within the Business, Computer, & Information Technology Department – Cybersecurity and Multimedia Games Simulation Design.*

## ECIHSA – CYBERSECURITY

### INTRODUCTION TO CYBERSECURITY

0630 1 CREDIT

6 CCAC CREDITS POSSIBLE THROUGH ECIHSA



CIT 115 – INTRO TO INFO TECHNOLOGY (3 CR)  
CIT 175 – CYBERSPACE VULN & RISKS (3 CR)

This course introduces students to the fundamentals of cybersecurity, such as cybersecurity goals, vulnerabilities, threats, and risks. Students will also have the opportunity to explore technical issues with computers and information technology that include: computer hardware, operating systems, file storage, digital media database systems, networking fundamentals, and the Internet structure and organization. \*Students may earn a weighted grade on the 5.0 scale for this course.

*Grade level: 9, 10, 11, 12*

### PRINCIPLES OF INFORMATION SECURITY

0631 1 CREDIT

7 CCAC CREDITS POSSIBLE THROUGH ECIHSA



CIT 181 – PRINCIPLES OF INFO SECURITY (4CR)  
CIT 185 – NETWORK SECURITY (3 CR)

This course provides students with principles of computer and information security to help them identify and evaluate computer security crimes and incidents. Students will learn protocols essential to securing wired and wireless networks. Topics include information security components and models, legal and ethical issues in information security and privacy, basics of computer networks and data communication, common computer and network system threats, attacks, and vulnerabilities, as well as information security risk and damage analysis and assessment. \*Students may earn a weighted grade on the 5.0 scale for this course.

*Prerequisite: Introduction to Cybersecurity*

*Grade level: 10, 11, 12*

### COMPUTER FORENSICS WITH INTRUSION DETECTION & PREVENTION

0632 1 CREDIT

6 CCAC CREDITS POSSIBLE THROUGH ECIHSA



CIT 180 – COMPUTER FORENSICS (3 CR)  
CIT 186 – INTRUSION DETECT & PREVENT (3CR)

This course introduces students to the fundamentals of the computer forensics field. Students will obtain essential knowledge of the computer forensics profession, legal issues along with procedures of computer investigations and digital evidence management. They will also learn about basic practice in detecting and preventing

# BUSINESS, COMPUTER AND INFORMATION TECHNOLOGY

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intrusions/attacks in cyberspace. \*Students may earn a weighted grade on the 5.0 scale for this course.

*Prerequisite: Introduction to Cybersecurity*

*Grade level: 10, 11, 12*

## ADVANCED CYBERSECURITY TOPICS

Starting 2020-2021

6 CCAC CREDITS POSSIBLE THROUGH ECIHSA



CIT 282 – ADV CYBERSECURITY TOPICS (3 CR)  
CIT 285 – CYBERSECURITY CAPSTONE (3CR)

This course covers advanced and emerging topics in Cybersecurity. Students will work on and complete projects using knowledge gained from previous courses along with additional research. \*Students may earn a weighted grade on the 5.0 scale for this course.

*Prerequisites: All 3 Cybersecurity classes*

*Grade level: 11, 12*

❖ This course may count toward a student's fourth science credit.

## INTRO TO DATA ANALYTICS WITH PYTHON

Starting 2020-2021

6 CCAC CREDITS POSSIBLE THROUGH ECIHSA



DAT 102 – INTRO TO DATA ANALYTICS (3 CR)  
DAT 119 – PYTHON 1 CAPSTONE (3CR)

This course introduces the computer programming language Python and examines the concepts of data analysis and how it impacts the business process. An emphasis will be placed on the development of sound research questions, the identification and verification of data sources, the retrieval, cleaning and manipulation of data and the process for identifying the data elements that are relevant for a given audience as well as flow, object-oriented

programming and graphical user interface-driven applications using Python.

\*Students may earn a weighted grade on the 5.0 scale for this course.

*Grade level: 10, 11, 12*

## ECIHSA – MULTIMEDIA GAMES AND SIMULATION

### INTRODUCTION TO GAME DESIGN AND WEB DEVELOPMENT

0620 1 CREDIT

6 CCAC CREDITS POSSIBLE THROUGH ECIHSA



MMC 160 – GAME DESIGN & SIM 1 (3 CR)  
CIT 125 – WEB DEVELOPMENT (3 CR)

“Gaming” doesn’t only mean video games. Gamers also play board games, card games, simulations, and participate in interactive stories. In this course you will learn the fundamentals of game design through hands-on modding, prototyping, and iteration of a variety of games. You will also use professional game design techniques to create playable mobile games that you can add to your game design portfolio. Using GameSalad, you will learn the fundamentals of game balance, apply competition and playfulness, demonstrate a working knowledge of triangularity, and debug using iterative game design. In addition to game design skills, you will be introduced to the skills necessary to design, create, and enhance Web pages for personal and business use. \*Students may earn a weighted grade on the 5.0 scale for this course.

*Grade level: 9, 10, 11, 12*

# BUSINESS, COMPUTER AND INFORMATION TECHNOLOGY

The Business, Computer and Information Technology Department offers a variety of courses with the goal of providing realistic and relevant instruction for students seeking business and computer skills to function effectively in our economic system. Computer skills are vital for personal, academic, and professional success.

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## GAMEMAKER PROGRAMMING 0621 1 CREDIT

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In this course, learn the concepts taught in a college-level “Programming 101” course, but all of the projects are games! You will receive an introduction to basic programming by building two dimensional (2D) games. GameMaker, the 2D game engine you’ll be using, is based on a scripting language that builds techniques that can be transferred to any other programming language such as Python, Java and C++. You will finish complete stand-alone executable games that can be played with friends and added to your digital portfolio.

**Prerequisite:** Introduction to Game Design and Web Development or Mobile App and Game Design

**Grade level:** 10, 11, 12

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## DEVELOPING MULTIMEDIA WEBSITES 0622 1 CREDIT

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9 CCAC CREDITS POSSIBLE THROUGH ECIHSA



MMC 111 – DEV IMAGES FOR WEB (3 CR)  
MMC 112 – AUDIO & VIDEO WEB (3 CR)  
MMC 150 – PROG WITH JAVASCRIPT (3 CR)

This course is an enhancement of the Web development course. Students will create, test and debug scripts that include object methods and properties, data types, data selections and repetition structures, as well as window, form, frame and document objects. They will also create and enhance digital images using appropriate software for translating site goals into compelling Web design. Building increasingly comprehensive media players with audio and video solutions will be part of this

class as well. Students will leave this class with the tools to build Web pages that stand out in a variety of ways. \*Students may earn a weighted grade on the 5.0 scale for this course.

**Prerequisite:** Introduction to Game Design and Web Development or Mobile App and Game Design

**Grade level:** 10, 11, 12

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## 3D MODELING 0623 1 CREDIT

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6 CCAC CREDITS POSSIBLE THROUGH ECIHSA



MMC 260 – MAYA FOR GAMING 1 (3 CR)  
MMC 270 – MAYA FOR GAMING 2 (3 CR)

Learn the 3D modeling techniques used in movies, visual effects, video games, cartoons, commercials, and animation! Using 3DS Max, you will work in this highly skill-based art form to manipulate and sculpt pure imagination into substantial forms. You will also get an introduction to the Maya software. By the end of the course, you will have developed a portfolio of original projects that you can use when applying for an internship, higher education, or a job. \*Students may earn a weighted grade on the 5.0 scale for this course.

**Grade level:** 10, 11, 12

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## GAME PRODUCTION AND MARKETING 0624 1 CREDIT

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3 CCAC CREDITS POSSIBLE THROUGH ECIHSA



MMC 228 – INSTRUCT DESIGN (3 CR)

Find out how the video game industry really works by learning the tools, skills, and methodologies used to create and produce video games. You’ll divide into teams to create, market, and “sell” your game. Commercially viable games may result, and recommendations are given at the end of the course

# BUSINESS, COMPUTER AND INFORMATION TECHNOLOGY

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for taking them to market. Part of this course will consist of “gamification” which is the process of taking something that already exists - website, training protocol, etc. - and integrating game mechanics into it to motivate participation, engagement, and loyalty. This course offers a unique and exciting opportunity for the students to add an original work to their portfolio.

\*Students may earn a weighted grade on the 5.0 scale for this course.

*Prerequisite:* Unity 3D Programming

*Grade level:* 12

❖ This course may count toward a student's fourth social studies credit.

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## 3D GAME DEVELOPMENT 0625 1 CREDIT

3 CCAC CREDITS POSSIBLE THROUGH ECIHSA

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MMC 250 –3D DESIGN FOR GAMING (3 CR)

Are you ready to take your programming skills into the next dimension? In this course, learn how to create dynamic Unity™ 3D games using the same industry standard developing engine as professionals. You will create two fully executable games that can be played on many platforms and added to your digital portfolio. You will also learn to design and create game environments utilizing Unreal Engine. You will learn to design and develop game assets to create your own video game content.

\*Students may earn a weighted grade on the 5.0 scale for this course.

*Prerequisite:* GameMaker Programming

*Grade level:* 11, 12

❖ This course may count toward a student's fourth mathematics credit.

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## VIRTUAL REALITY

Starting 2020-2021

3 CCAC CREDITS POSSIBLE THROUGH ECIHSA

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MMC 170 –GAME DESIGN & SIM 2 (3 CR)

This course will teach the utilization of software to apply basic animation motion for game creation and simulation. \*Students may earn a weighted grade on the 5.0 scale for this course.

*Prerequisite:* 3D Modeling, 3D Game Development & Developing Multimedia Websites

*Grade level:* 12

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## BUSINESS COURSES

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### PRINCIPLES OF BUSINESS 0606 1 CREDIT

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This comprehensive introductory business course introduces students to business concepts and skills needed in today's competitive environment. The course offers extensive coverage in major business concepts in the areas of finance, operations and management. This knowledge is virtually unlimited as most careers within our economic system relate to the business world and students will gain valuable information and skills for the workplace.

*Grade level:* 9, 10, 11, 12

# BUSINESS, COMPUTER AND INFORMATION TECHNOLOGY

The Business, Computer and Information Technology Department offers a variety of courses with the goal of providing realistic and relevant instruction for students seeking business and computer skills to function effectively in our economic system. Computer skills are vital for personal, academic, and professional success.

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## CAREER, PERSONAL AND FINANCIAL SUCCESS 0607 1 CREDIT

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Students will explore a variety of career fields and will cover materials relating to application forms, cover letters, resumes, job interviews, and career advancement. Communications skills for effectiveness on the job and in personal relationships will be addressed. Students will examine personal career opportunities and explore some of the individual aspects of the decisions they make as well as develop the means to attain a job and advance in a career. This course will help the student acquire the tools necessary to manage the personal aspects of their life. They will learn money management, banking, credit, and consumerism. This will enhance their ability to adapt smoothly into an adult role in society.

*Grade level: 9, 10, 11, 12*

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## ACCOUNTING 0608 1 CREDIT

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Accounting is so much a part of our business lives that accounting has been called the “language of business.” Accounting I has been designed to serve the needs of all students who are considering a career in business or who would like an introduction to the fundamentals of accounting. Content focuses on the basics of financial analysis for sole proprietorships and partnerships. Through integrated software applications, students will

develop an understanding of accounting information systems and build a strong foundation in basic procedures. Accounting is a core requirement for all business majors in college. Previous computer experience is not a requirement for the course.

*Grade level: 9, 10, 11, 12*

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## BUSINESS OWNERSHIP/ENTREPRENEURSHIP 0609 1 CREDIT

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Have you ever dreamed of owning and operating your own business? Would you like to be a decision maker and the boss? In this course, students learn the basics of business ownership starting with a concept and then developing that idea into an actual business plan. Some of the topics covered include forms of business ownership, site location, management, marketing, credit policies, e-commerce, business technologies, legal issues and employee relations. This knowledge is virtually unlimited as most careers within our economic system relate to the business world. Learn what it takes to be a successful entrepreneur and transform something you love into a profitable business!

*Grade level: 9, 10, 11, 12*

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## PRINCIPLES OF MARKETING 0610 1 CREDIT

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This course will provide students a comprehensive overview of marketing principles and practices using industries such as entertainment, fashion, and

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sports among others. Students will explore opportunities and challenges businesses face when marketing products and services. With this basic marketing foundation, students will be a step ahead when pursuing a variety of career opportunities such as sales, sales management, advertising, market research, consulting, insurance, brand/product management, franchising, public relations, communications, and retailing. These marketing principles and practices are invaluable when looking at a student's future and especially when they begin to market themselves.

*Grade level: 9, 10, 11, 12*

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## CHS FINANCIAL ACCOUNTING 0612 1 CREDIT

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Students will learn principals of accounting theory and practice currently used in accounting information systems. Topics covered include accounting for service and merchandising business enterprises. The processes of analyzing, journalizing, and posting are covered in-depth, as well as adjusting accounts, preparing financial statements, and completing the accounting cycle. Deferrals, accruals, accounting for merchandise inventory, ethics and internal controls, cash and receivables are also covered.

Students will have the option to take this course for college credits. These credits may be transferable to other universities; check with the college you plan to attend.

\*Students may earn a weighted grade on the 5.0 scale for this course.

*Grade level: 10, 11, 12*

❖ **This course may count toward a student's fourth mathematics credit.**

## COMPUTER SCIENCE COURSES

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### INTRODUCTION TO PROGRAMMING

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0616 .50 CREDIT



Introduction to Programming is a one semester course where students will be exposed to the fundamentals of creating computer software. Students will explore several programming languages. Students will create programs that explore data types, program structure, and best programming practices. Students will be able to design efficient algorithms and write the code based on these algorithms to solve common programming tasks. This course will be very hands on and delivered entirely in a web-based format. This course will expose students to the computer science field of programming and prepare students to succeed in higher level programming classes.

*Prerequisite: Successful completion of Algebra I*

*Grade level: 9, 10, 11, 12*

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### AP COMPUTER SCIENCE PRINCIPLES

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0617 1 CREDIT

4 CCAC CREDITS POSSIBLE THROUGH ECIHSA



CIT 111 – INTRO TO PROG: JAVA  
(4 CR)

AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming,

# BUSINESS, COMPUTER AND INFORMATION TECHNOLOGY

The Business, Computer and Information Technology Department offers a variety of courses with the goal of providing realistic and relevant instruction for students seeking business and computer skills to function effectively in our economic system. Computer skills are vital for personal, academic, and professional success.

abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles will give students the opportunity to use technology to address real-world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. **\*Students may earn a weighted grade on the 5.0 scale for this course.**

- Curriculum is built around fundamentals of computing including problem solving, working with data, understanding the Internet, cybersecurity, and programming.
- Teachers choose the programming language(s)
- Encourages a broader participation in the study of computer science and other STEM fields, including AP Computer Science A
- AP assessment experience:
  - Two performance tasks students complete during the course to demonstrate the skills they have developed (administered by the teacher; students submit digital artifacts)
  - Multiple-choice questions (written exam)

**Prerequisite:** Successful completion of Algebra I

**Grade level:** 10, 11, 12

❖ **This course may count toward a student's fourth mathematics credit.**

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## AP COMPUTER SCIENCE A 0618 1 CREDIT

**4 CCAC CREDITS POSSIBLE THROUGH ECIHSA**

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CIT 130 – OBJ ORIEN PROG 1: JAVA (4 CR)

Computer science embraces problem solving, algorithms, and perspectives that help people utilize computers to address real world problems in contemporary life. The AP Computer Science A course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodology, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course requires that potential solutions of problems be written in the Java programming language. Java is an extensive language, and only a subset of Java will be covered in the course. **\*Students may earn a weighted grade on the 5.0 scale for this course.**

- Curriculum is focused on object-oriented programming and problem solving
- Java is the designated programming language
- Encourages skill development among students considering a career in computer science or other STEM fields
- AP assessment experience:
  - Multiple-choice and free-response questions (written exam)

**Prerequisite:** Must be enrolled in a minimum of Algebra II

**Grade level:** 10, 11, 12

❖ **This course may count toward a student's fourth mathematics credit.**

# BUSINESS, COMPUTER AND INFORMATION TECHNOLOGY

The Business, Computer and Information Technology Department offers a variety of courses with the goal of providing realistic and relevant instruction for students seeking business and computer skills to function effectively in our economic system. Computer skills are vital for personal, academic, and professional success.

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## PROGRAMMING IN C & C++

Starting 2020-2021

7 CCAC CREDITS POSSIBLE THROUGH ECIHSA

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CIT 145 – PROGRAMMING IN C (3 CR)  
CIT245 – DATA STR & PROG IN C++ (4 CR)

In this course students will develop a working knowledge of the programming languages C and C++. Topics include: program structure, data types and variables, bit operators, control structures, input/output, arrays, pointers, and data structures. Students will learn about software design and development focusing on data abstraction and implementation of information structures.

**Prerequisite:** AP Computer Science A

**Grade level:** 11, 12

# ENGINEERING AND TECHNOLOGY EDUCATION

Engineering and Technology Education is an exciting way to discover and learn how communication, construction, manufacturing and transportation impact our lives and careers. Project based instruction helps the students develop problem solving skills, critical thinking, oral and written communication, team playing, while providing continued reinforcement of academic reading, writing, and math skills that are necessary in today's "knowledge economy."

## EARLY COLLEGE IN HIGH SCHOOL ACADEMY

*West Allegheny High School has partnered with the Community College of Allegheny County to offer a concurrent enrollment program that allows students the opportunity to potentially earn college credits through courses taught at the high school. The Early College in High School Academy (ECIHS) offers one program within the Engineering & Technology Education Department – Mechatronics Technology*

## ECIHS – MECHATRONICS TECHNOLOGY

### MANUFACTURING I

0711 1 CREDIT

6 CCAC CREDITS POSSIBLE THROUGH ECIHS



MEC 100 – SAFETY & QUALITY (3 CR)  
MEC 102 – INDUSTRIAL PROCESSES (3 CR)

This course prepares students with the common skills and competencies they will need to work in Pennsylvania's manufacturing and energy industries. This course emphasizes principles of safety and quality. Students will use safety-enhancing workplace practices, including wearing personal protective equipment (PPE), performing lockout/tagout and filling out Material Safety Data Sheets (MSDS). They will utilize the fundamentals of blueprint reading, precision measurement and quality inspection. Students will sit for the Manufacturing Skill Standards Council's (MSSCS) safety and quality exams toward achievement of the Certified Production Technician (CPT) credential. Fees for test materials and certification are added to the cost of this course.

Students will learn how engineering materials are gathered and processed for use. The course covers principles of production planning, inventory management and the operating and troubleshooting of industrial equipment. Students who successfully pass the course will sit for the Manufacturing Skill Standards Council's (MSSC) Processes and Production and Maintenance Awareness exams towards achievement of the Certified Production Technician (CPT) credential. Fees for test materials and certification are added to the cost of this course.

Grade level: 9, 10, 11, 12

### HOME SYSTEMS

0707 1 CREDIT

6 CCAC CREDITS POSSIBLE THROUGH ECIHS



MEC 103 – FUNDAMENTALS OF ELECTRICITY (3 CR)  
MEC 104 – MECHANICAL SYSTEMS MEC (3 CR)

This course introduces the student to the fundamentals of direct current (DC) and alternating current (AC) electric circuits. This is accomplished through a series of hands-on exercises performed in the lab. The operation of basic circuit components and their electrical quantities are observed by constructing circuits and using a digital multimeter (DMM) to measure their operation. Students will learn how to read a schematic diagram and build series and parallel circuits from these diagrams. Home Systems will also provide students with the experience and understanding of how to assemble mechanical drive systems that include couplings, shafts, bearings, belt drives, drive trains or gears. This is accomplished through a series of hands-on exercises performed in the lab. Safety, installation, maintenance and repair of these systems will be highlighted.

Grade level: 9, 10, 11, 12

# ENGINEERING AND TECHNOLOGY EDUCATION

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## DIGITAL ELECTRONICS 0716 1 CREDIT

**6 CCAC CREDITS POSSIBLE THROUGH ECIHSA**

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MEC 106 – INDUSTRIAL POWER SYSTEMS (3 CR)  
MEC 110 – DIGITAL ELECTRONICS (3 CR)

This course provides a series of hands-on exercises performed in the lab that follows the installation of an industrial power system. This includes reading and understanding schematic prints and completing the installation of an industrial motor system based on a schematic diagram using industry standards.

This course is designed to teach students the basics of digital electronic devices and their applications through a series of hands-on exercises performed in the lab. Logic gates and truth tables will be utilized throughout the course to reinforce digital circuit operations. **\*Students may earn a weighted grade on the 5.0 scale for this course. This course does qualify for Rochester Institute of Technology credit and can be transferred to other institutions.**

**Prerequisites:** Home Systems, presently taking Algebra II or higher math course and either completion of Introduction to Engineering with a "C" or higher or enrolled in the ECIHSA Mechatronics Technology certificate program.

**Grade level: 10, 11, 12**

❖ **This course may count toward a student's fourth science credit.**

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## PROGRAMMING LOGIC CONTROLLERS

Starting 2020-2021

**6 CCAC CREDITS POSSIBLE THROUGH ECIHSA**

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MEC 108 – PROG. LOGIC CONTROLLERS (3 CR)  
MEC 156 – MOTORS AND MOTOR CONTROL (3 CR)

This course provides a series of hands-on exercises performed in the lab as an introduction to programmable logic controllers (PLCs). Topics

include connecting inputs and outputs to the PLC, writing, downloading and debugging ladder logic programs and troubleshooting existing PLC circuits and programs.

This course introduces the basic concepts of single-phase motors, three-phase motors and motor control circuits through a series of hands-on exercises performed in the lab. The student will connect various configurations of motor and motor controls that incorporate circuit protection and operator safety.

**Prerequisite:** Home Systems

**Grade level: 11, 12**

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## FLUID ROBOTICS Starting 2020-2021

**6 CCAC CREDITS POSSIBLE THROUGH ECIHSA**

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MEC 112 – INTRO TO ROBOTICS (3 CR)  
MEC 150 – FLUID POWER (3 CR)

This course is designed to introduce the concepts of servo control systems and automation systems used in robotic control systems through a series of hands-on exercises performed in the lab. The student will learn to program various robot models and review work cell safety.

Through a series of hands-on exercises in the lab, this course focuses on the operation of hydraulic and pneumatic systems for power transmission in an industrial application. The student will have the ability to construct, operate and troubleshoot fluid power systems and recognize the schematic symbols for the various hydraulic and pneumatic components.

**Prerequisite:** Home Systems

**Grade level: 11, 12**

# ENGINEERING AND TECHNOLOGY EDUCATION

Engineering and Technology Education is an exciting way to discover and learn how communication, construction, manufacturing and transportation impact our lives and careers. Project based instruction helps the students develop problem solving skills, critical thinking, oral and written communication, team playing, while providing continued reinforcement of academic reading, writing, and math skills that are necessary in today's "knowledge economy."

## PROJECT LEAD THE WAY (PLTW)

*Project Lead The Way is a national non-profit organization (associated with top Higher Education Institutions, such as Rochester Institute of Technology) established to help give students the knowledge they need to excel in engineering and highly technical fields.*

*PLTW's high school program focuses on developing better problem-solving skills by immersing students in real-world engineering problems. Each of six challenging courses uses project-based, hands on experiences to teach students the key elements and skills of engineering and technology based careers. The courses make math and science relevant for students by engaging them in real world projects that increase student motivation, cooperative learning skills, and higher order thinking.*

*Seniors that have not taken the engineering prerequisites but have the math requirements and a good science background may take a course out of sequence with Engineering Department approval with the exception of the Capstone Course.*

## PRE-COLLEGE ENGINEERING CURRICULUM

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### INTRODUCTION TO ENGINEERING DESIGN

0714 1 CREDIT

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Students use a problem-solving model to improve existing products and invent new ones. They learn how to apply this model to solve problems in and out of the classroom. Using sophisticated three-dimensional modeling software, students communicate the details of the products. Emphasis is placed on analyzing potential solutions and communicating ideas to others. \*Students may earn a weighted grade on the 5.0 scale for this course. This course does qualify for Rochester Institute of technology credit and can be transferred to other institutions.

*Corequisite: Presently taking Geometry  
or higher math course*

*Grade level: 9, 10, 11, 12*

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### PRINCIPLES OF ENGINEERING

0715 1 CREDIT

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This introductory course explores the wide variety of careers in engineering and technology and covers various technology systems and manufacturing processes. Using activities, projects, and problems, students learn firsthand how engineers and technicians use math, science, and technology in an engineering problem-solving process to benefit

# ENGINEERING AND TECHNOLOGY EDUCATION

Engineering and Technology Education is an exciting way to discover and learn how communication, construction, manufacturing and transportation impact our lives and careers. Project based instruction helps the students develop problem solving skills, critical thinking, oral and written communication, team playing, while providing continued reinforcement of academic reading, writing, and math skills that are necessary in today's "knowledge economy."

people. The course also addresses concerns about social and political consequences of technological change. **\*Students may earn a weighted grade on the 5.0 scale for this course. This course does qualify for Rochester Institute of Technology credit and can be transferred to other institutions.**

**Prerequisites:** Presently taking Algebra II or higher math course and completion of Introduction to Engineering with a "C" or higher

**Grade level: 10, 11, 12**

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## ENVIRONMENTAL SUSTAINABILITY

0717 1 CREDIT

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In this course students investigate and design solutions in response to real-world challenges related to clean and abundant drinking water, food supply, and renewable energy. Applying their knowledge through hands-on activities and simulations, students will research and design potential solutions to these true-to-life challenges. **\*Students may earn a weighted grade on the 5.0 scale for this course. This course does NOT qualify for Rochester Institute of Technology credit.**

**Prerequisites:** Presently taking Algebra II or higher math course, Honors Biology with a "C" or higher, and completion of Introduction to Engineering with a "C" or higher

**Grade level: 10, 11, 12**

❖ **This course may count toward a student's fourth science credit.**

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## CIVIL ENGINEERING AND ARCHITECTURE

0718 1 CREDIT

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Students learn about various aspects of civil engineering and architecture and apply their knowledge to the design and development of residential and commercial properties and structures. In addition, students use 3D design software to design and document solutions for major course projects. Students communicate and present solutions to their peers and members of a professional community of engineers and architects. This course is designed for 11<sup>th</sup> or 12<sup>th</sup> grade students. **\*Students may earn a weighted grade on the 5.0 scale for this course. This course does qualify for Rochester Institute of Technology credit and can be transferred to other institutions.**

**Prerequisites:** Presently taking Algebra II or higher math course and completion of Introduction to Engineering with a "C" or higher

**Grade level: 10, 11, 12**

❖ **This course may count toward a student's fourth science credit.**

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## ENGINEERING DESIGN AND DEVELOPMENT – CAPSTONE COURSE

0719 1 CREDIT

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The knowledge and skills students acquire throughout PLTW Engineering come together in EDD as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply

# ENGINEERING AND TECHNOLOGY EDUCATION

Engineering and Technology Education is an exciting way to discover and learn how communication, construction, manufacturing and transportation impact our lives and careers. Project based instruction helps the students develop problem solving skills, critical thinking, oral and written communication, team playing, while providing continued reinforcement of academic reading, writing, and math skills that are necessary in today's "knowledge economy."

the professional skills they have developed to document a design process to standards, completing EDD ready to take on any post-secondary program or career. \*Students may earn a weighted grade on the 5 scale for this course. This course does NOT qualify for Rochester Institute of Technology credit.

**Prerequisites:** Presently taking Algebra II or higher math course and completion of Introduction to Engineering and either Principles of Engineering, Digital Electronics, or Environmental Sustainability with a "C" or higher.

**Grade level:** 11, 12

❖ **This course may count toward a student's fourth science credit.**

## PLTW COLLEGE CREDIT

Students may be eligible to earn credit at Rochester Institute of Technology (RIT) for the PLTW engineering courses they successfully complete and for which they pass the exit exam. Credit for PLTW courses may be attained from RIT and transferred to most institutions. A fee will be charged for credit earned at RIT. Further information about college credit may be found at <http://www.pltw.org/colleges-universities>.

PLTW Course	RIT Engineering Technology Course	Credits
Introduction To Engineering Design	Introduction To Engineering Design	4
Principles of Engineering	Principles of Engineering	4
Digital Electronics	Digital Electronics	4
Civil Engineering/ Architecture	Civil Engineering/ Architecture	4
Total Credits Possible		16

## TECHNOLOGY EDUCATION

### DRAWING AND DESIGN FOR ENGINEERING AND ARCHITECTURE

0706 1 CREDIT



This is an activity-based course focusing on the basic technical drawing techniques commonly used for the engineering field and construction influences that focus on the style, structure and design of houses throughout history and the present. Students will acquire skills in two and three dimensional drawing and designing of products with traditional drawing and CAD (Computer Aided Drawing) drawing being emphasized; as well as study the design, structure, and materials and solve problems associated with designing and building a house.

**Grade level:** 9, 10, 11, 12

### CADD I

0708 1 CREDIT



This is an activity-based course that further focuses on CADD and its application in the architecture, art, and engineering industries. Students will concentrate on three-dimensional objects and their drawings for each industry.

**Prerequisite:** Drawing & Design for Engineering & Architecture with a "C" or higher

**Grade level:** 10, 11, 12

# ENGINEERING AND TECHNOLOGY EDUCATION

Engineering and Technology Education is an exciting way to discover and learn how communication, construction, manufacturing and transportation impact our lives and careers. Project based instruction helps the students develop problem solving skills, critical thinking, oral and written communication, team playing, while providing continued reinforcement of academic reading, writing, and math skills that are necessary in today's "knowledge economy."

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## CADD II

0709 1 CREDIT

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This is an activity-based course that further focuses on CADD and its application in the architecture, art, and engineering industries. Students will concentrate on three-dimensional objects and their drawings for each industry.

**Prerequisite:** CADD I with a "C" or higher

**Grade level:** 11, 12

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## MANUFACTURING TECHNOLOGY II

0712 1 CREDIT

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This course is an activity-based course that focuses on the manufacturing industry. The students will design and manufacture a product via a mass production. The class will be structured as a company. During the course the student will establish a governing board, do market analysis, sell stock and finally, dissolve the company.

**Prerequisite:** Manufacturing Technology I with a "C" or higher

**Grade level:** 10, 11, 12

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## CADD III

0710 1 CREDIT

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This is an activity-based course that further focuses on CADD and its application in the architecture, art, and engineering industries. Students will concentrate on three-dimensional objects and their drawings for each industry.

**Prerequisite:** CADD III with a "C" or higher

**Grade level:** 12

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## DO IT YOURSELF (DIY)

0713 1 CREDIT

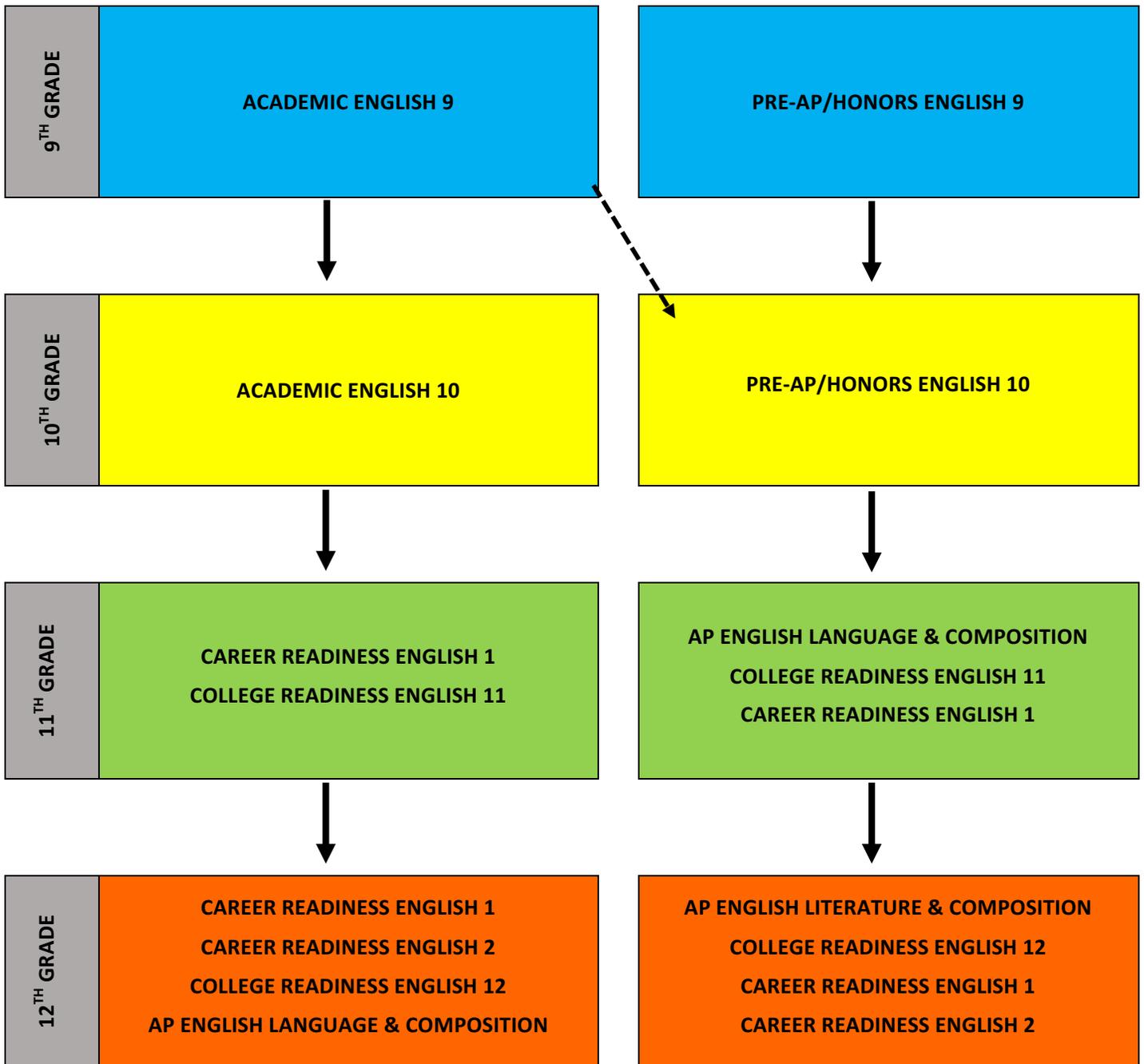
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This course is an activity-based (year-long) course that focuses on the "Do it Yourself" trend. The students will design and manufacture a product based on desire from web sites like Etsy and Pinterest. The class will be structured to give students the opportunity to gain knowledge in tools and shop safety along with understanding how products are made.

**Grade level:** 9, 10, 11, 12

# WEST ALLEGHENY HIGH SCHOOL ENGLISH SEQUENCE



# ENGLISH LANGUAGE ARTS

The West Allegheny English Language Arts curriculum provides students varied opportunities for mastery in the areas of reading, writing, speaking, and listening. All courses have a summer reading and writing requirement; students should collect the materials before they leave school for the summer. AP English Language & Composition and AP English Literature & Composition will include an additional requirement specific to each class.

## ACADEMIC ENGLISH 9

0101 1 CREDIT



To prepare students for post-secondary endeavors, this class will provide an introduction to reading and analysis of fiction and nonfiction materials through the use of text-dependent questions, close readings, etc. The class will also provide an introduction to formal academic writing. Composition experiences will center on the development of the basic essay. In addition, those enrolled will apply writing skills to the analysis of quality literature in the areas of fiction, nonfiction, poetry, and drama. Research skills are also emphasized through various required projects. Students will be responsible for independent study in the form of reading and writing. Academic English 9 provides the foundation of literacy skills needed to be successful in all courses where reading, writing and analysis may apply.

## PRE-AP/HONORS ENGLISH 9

0106 1 CREDIT



Pre-AP English 9 establishes the foundation for the AP English program; therefore, parents and prospective students should exercise caution when considering this challenging course. An emphasis will be placed on age-appropriate study in order to prepare students for independent post-secondary course work. This study may include, but is not limited to: 1) nightly homework, 2) independent study (i.e. writing and reading assignments) and, for various required projects 3) formal academic library research in and outside of school. Emphasis will be placed on

analysis of fiction and nonfiction, poetry and drama through the use of text-dependent questions and close readings. Students will be expected to synthesize their ideas by using evidence from primary and secondary sources. Students will be called on to present as an individual or within a group and students will be expected to work effectively within their groups. Since partner, small and large group discussions are an essential part of this class it is expected that students be respectful of other's opinions, be able to make intellectual contributions to the discussion and build off of other's students' contributions. \*Students may earn a weighted grade on the 4.5 scale for this course.

*Prerequisites: A "B" average in 8<sup>th</sup> grade English, Teacher recommendation*

## ACADEMIC ENGLISH 10

0111 1 CREDIT



To prepare students for post-secondary endeavors, students are expected to have mastered the basic skills of the multi-paragraph essay, and to become proficient in writing them during the course of the year. In addition to the study of various literature genres, those enrolled will continue strengthening composition skills, developing public speaking skills and enhancing critical thinking. Critical analysis in discussions and writing is emphasized and applied to various genres of fiction and nonfiction, such as drama, short stories, biographies and essays. Students will take the Literature Keystones Exam towards the end of the year. A proficient score is required. If a proficient score is not achieved, remediation will be required.

# ENGLISH LANGUAGE ARTS

The West Allegheny English Language Arts curriculum provides students varied opportunities for mastery in the areas of reading, writing, speaking, and listening. All courses have a summer reading and writing requirement; students should collect the materials before they leave school for the summer. AP English Language & Composition and AP English Literature & Composition will include an additional requirement specific to each class.

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## PRE-AP/HONORS ENGLISH 10 0112 1 CREDIT

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Pre-AP English 10 continues building a foundation for the AP English program; therefore, parents and prospective students should exercise caution when considering this challenging course. Students are expected to have mastered the basic skills of the multi-paragraph essay, and to become proficient in writing them during the course of the year. Also, in addition to the study of various literature genres, those enrolled will continue strengthening composition skills, developing public speaking skills and enhancing critical thinking. Critical analysis in discussions and writing is emphasized and applied to various genres of fiction and non-fiction such as drama, short stories, biographies and essays. Also, an emphasis will be placed on age-appropriate study in order to prepare the student for independent post-secondary course work. The latter may include but is not limited to: 1) nightly homework, 2) independent study (i.e. writing and reading assignments), 3) research in school during classes and study halls as well as research outside of school for various required projects. Students will take the Literature keystones Exam towards the end of the year. A proficient score is required. If a proficient score is not achieved, remediation will be required. \*Students may earn a weighted grade on the 4.5 scale for this course.

**Prerequisites:** A "B" average in English 9 or Honors English 9, Teacher recommendation

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## COLLEGE READINESS ENGLISH 11 0121 1 CREDIT

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College Readiness English is a course designed to prepare students to meet the academic rigors of college work. College Readiness English 11 will emphasize close and critical readings of texts from the Collections text as well as other supplemental materials. Students will take part in rigorous novel studies with culminating projects to support each novel. Students enrolled in this challenging course will enhance their critical writing and thinking skills through various writing assignments and works of literature. Writing assignments will cover a wide variety of academic writing that will focus on analysis and critical thinking. Students will be given opportunities to work collaboratively with their peers, practice presentation skills, and participate actively in peer-driven academic discussions.

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## AP ENGLISH LANGUAGE AND COMPOSITION 0122 1 CREDIT

**\*6 CCAC CREDITS POSSIBLE THROUGH ECIHSA**

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ENG 101 – ENGLISH COMP 1 (3 CR)  
ENG 102 – ENGLISH COMP 2 (3 CR)

\*Must pass CCAC placement test

AP English Language and Composition course cultivates the reading and writing skills that students need for collegiate success and for intellectually responsible civil engagement. The course guides students in becoming curious, critical, and responsive

# ENGLISH LANGUAGE ARTS

The West Allegheny English Language Arts curriculum provides students varied opportunities for mastery in the areas of reading, writing, speaking, and listening. All courses have a summer reading and writing requirement; students should collect the materials before they leave school for the summer. AP English Language & Composition and AP English Literature & Composition will include an additional requirement specific to each class.

readers of diverse texts, and becoming flexible, reflective writers of texts addressed to diverse audiences for diverse purposes. The reading and writing students do in the course should deepen and expand their understanding of how written language functions *rhetorically* to communicate writers' intentions and elicit readers' response in particular situations. The course cultivates the rhetorical understanding and use of written language by directing students' attention to writer/reader interactions in their reading and writing of various formal and informal genres (e.g. memos, letters, advertisements, political satires, personal narratives, scientific arguments, cultural critiques, research reports) about a variety of subjects. In the course, students will encounter work with, and evaluate, both primary and secondary sources. This course requires significant reading and writing outside of class. Students will be required to take the Advanced Placement exam at the end of the course. \*Students may earn a weighted grade on the 5.0 scale for this course.

**Prerequisites:** A "B" average in Honors English 10,  
Teacher recommendation

**Grade level:** 11

**NOTE:** This course has a summer reading and writing requirement; students should collect the materials before they leave school for the summer.

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## CAREER READINESS ENGLISH I

0129 1 CREDIT



Career Readiness English is a course designed to prepare students for the rigors and demands of the workforce. Materials for study will be drawn from the

Collections text, the core novels, non-fiction texts, work manuals, newspapers, and more. Writing objectives will include practice and exposure to technical writing, letters, memos, reports, financial documents, manuals, business plans, incident reports and more while allowing students to choose topics that pertain to their chosen career field. The writing assignments will be enhanced by presentation opportunities mirroring presentations that may be required in various career fields. Students will work both independently and collaboratively. Career skill objectives will include a variety of real world exposure to necessary career skills such as: professionalism, group dynamics and teamwork, interviewing skills, presentation skills, the importance of networking, understanding technical writing and reading for work. Students will be exposed to a variety of career fields, with opportunities for networking with local career representatives.

**Grade level:** 11, 12

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## CAREER READINESS ENGLISH II

0130 1 CREDIT



This is a course where students will examine personal strengths and identify with multiple, potential career paths, as well as refine their pathway to their career if ready and able to. The course contrasts the other two offered English courses (AP Literature, College Readiness English 12) in the content. The students will read two of the grade-level fictional novels and two non-fiction (not offered in the other courses) novels, along with numerous non-fiction selections. The students will continue to explore the technical side of English, identifying how their new approach to writing will

# ENGLISH LANGUAGE ARTS

The West Allegheny English Language Arts curriculum provides students varied opportunities for mastery in the areas of reading, writing, speaking, and listening. All courses have a summer reading and writing requirement; students should collect the materials before they leave school for the summer. AP English Language & Composition and AP English Literature & Composition will include an additional requirement specific to each class.

differ from their prior learning and identify the appropriate times to use the various types of writing. The students will also refine their competency in the organization and writing of technical descriptions, processing instructions, articles, reports, and proposals. This course will promote effective written technical communication, allowing students to analyze and synthesize content in their field of study and present them in reports, articles, and essays. This course applies principles of composition as learned in previous English courses and also expands on the concept of technical writing as applied to research in specific fields (like business, public safety, military, etc.). This course varies tremendously from traditional English courses, therefore students are expected to evaluate their course selection with this in mind.

**Prerequisite:** Successful completion of Career Readiness English I

**Grade level:** 11, 12

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## COLLEGE READINESS ENGLISH 12

0131 1 CREDIT

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College Readiness English 12 will build on the critical and analytical skills established in 11<sup>th</sup> grade. This course will emphasize close and critical readings of texts from the Collections text as well as other supplemental materials. Students will take part in rigorous novel studies with culminating projects to support each novel. Students in this class will delve more deeply into college level texts focusing on higher level thinking questions and higher level tasks. Students enrolled in this course will be expected to be advocates for their learning and

workload to prepare them for the self-discipline and awareness necessary in college. Writing assignments will cover a wide variety of academic writing that will focus on analysis and critical thinking. Students will be given opportunities to work collaboratively with partners and in group situations as well as present in front of their peers.

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## AP ENGLISH LITERATURE AND COMPOSITION

0132 1 CREDIT

\*3 CCAC CREDITS POSSIBLE THROUGH ECIHSA

*Pending CCAC Approval*

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ENG 115 – GENERAL LITERATURE

\*Must pass ENG 101

This course focuses on the strengthening of advanced skills in reading and writing, with a primary focus on author's craft, purpose, and effect on the reader. It is designed for those who can progress rapidly to work beyond the high school level. Through extensive reading of world literature, students will learn to articulate their responses and to develop abilities in critical reading and analysis expected in college. In composition, emphasis is on extensive literary analysis of fiction, drama, and poetry, as well as the process of writing in many longer expository and argumentative forms. Students will synthesize literary claims by providing support from primary and secondary sources. Students will begin to assume responsibilities for their own learning. Students will be called on to present as an individual or within a group and students will be expected to work effectively within their groups. Since partner, small and large group discussions are a critical part of this class it is expected that students be respectful of

# ENGLISH LANGUAGE ARTS

The West Allegheny English Language Arts curriculum provides students varied opportunities for mastery in the areas of reading, writing, speaking, and listening. All courses have a summer reading and writing requirement; students should collect the materials before they leave school for the summer. AP English Language & Composition and AP English Literature & Composition will include an additional requirement specific to each class.

other's opinions, be able to make intellectual contributions to the discussion and build off of other's students contributions. Students will be exposed to different literary critique theories which they will utilize when examining texts. This course requires significant reading and writing outside of class. Students will be required to take the Advanced Placement exam at the end of the course. \*Students may earn a weighted grade on the 5.0 scale for this course.

*Prerequisites: A "B" average in College Readiness English 11 or a "B" average in AP English Language & Composition, Teacher recommendation*

**Grade level: 12**

**NOTE: This course has a summer reading and writing requirement; students should collect the materials before they leave school for the summer.**

expression skills and self-confidence as well as to increase their appreciation for the aesthetic qualities of oral discourse. These goals will be accomplished through three strands of study: In the first, the students will prepare various types of discourse such as those meant to inform, entertain, persuade, or tell a story. Next, those enrolled will be asked to speak extemporaneously on a variety of topics with which they are familiar, such as world events, local news, or school issues. In both strands, the students will be encouraged to sharpen their organizational and delivery skills. Finally, students will be encouraged to appreciate the use of imaginative language as it is found in literature. In addition, critical listening skills will be developed as students analyze one another's oral presentations.

*Prerequisite: Teacher recommendation*

**Grade level: 11, 12**

**ALL English courses have a summer reading and writing requirement; students should collect the materials before they leave school for the summer.**

**AP English Language & Composition and AP English Literature & Composition will include an additional requirement specific to each class.**

## ORAL COMMUNICATIONS & INTERPRETATION

0151 1 CREDIT

\*6 CCAC CREDITS POSSIBLE THROUGH ECIHSA



SPH 101 – ORAL COMMUNICATIONS – 3 CR  
SPH 202 – ORAL INTERPRETATION – 3 CR  
\*MUST HAVE PASSED ENG 101 OR BE CONCURRENTLY ENROLLED

This semester class has been designed to give students an opportunity to develop personal

# FAMILY AND CONSUMER SCIENCES

Various interests which fall under the umbrella of Family and Consumer Sciences are explored. Students may choose from courses that explore an understanding of early childhood development, gain appreciation and knowledge of various cooking styles and techniques, and increase skills in personal development.

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## EXPLORING FOODS

0720 1 CREDIT



This course focuses on the fundamentals of food preparation. Through varied lab experiences students will focus on nutrition, meal management and basic food preparation techniques while developing a greater understanding of food science. Students will take on an active role in learning course content through weekly hands-on applications, laboratory experiences, teacher demonstration, and group projects. Students will prepare a variety of recipes from all of the food groups in a safe and creative way. If you want to deepen your knowledge of food preparation, this a great course to start!

*Grade level: 9, 10, 11, 12*

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## ADVENTURES IN FOOD

0721 1 CREDIT



The first semester of this course will focus on meal planning principles and choosing and preparing a variety of foods that can fit into today's lifestyle. Students will learn to choose, purchase, prepare and consume healthful foods at home or work, in a restaurant, at a picnic or party, and on the go. The course connects the culinary concepts with nutrition and meal management in preparing wholesome, nutrient rich recipes. The second semester students will have the opportunity to promote and market a successful business as they take on an active role as an entrepreneur. Labs are

incorporated weekly allowing students to apply what they have learned.

*Grade level: 9, 10, 11, 12*

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## BAKING AROUND THE WORLD

0722 1 CREDIT



This course focuses on the fundamentals and science involved in the making of quick and yeast breads, pies, pastries, cakes, cake decorating, and cookies while learning about the historical and cultural influences that have contributed to recipes from countries around the world. Students will analyze how to bake on a budget and to limit the use of preservatives. An emphasis will be placed on STEAM related components such as scientific functions of ingredients, experiments, measuring and math accuracy, and baking terminology are integrated into weekly laboratories. You will learn to make healthy substitutions, where available, as you become expert bakers.

*Grade level: 9, 10, 11, 12*

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## FOOD FOR SPORT

0724 1 CREDIT



Like most young adults, you've probably heard that physical activity and good nutrition are good for you. If you are already including this in your daily routine...great! But maybe you need to step it up and push yourself a little harder. Regular exercise along with balancing good nutrition are important to the physical and emotional health of everyone. This

# FAMILY AND CONSUMER SCIENCES

Various interests which fall under the umbrella of Family and Consumer Sciences are explored. Students may choose from courses that explore an understanding of early childhood development, gain appreciation and knowledge of various cooking styles and techniques, and increase skills in personal development.

course will provide students with a hands-on approach to learning the biochemistry of food and how food choices can impact athletic performance and their overall health. They will explore the relationship between scientific principles and real-life food preparation techniques.

*Grade level: 9, 10, 11, 12*

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## FINANCIAL LITERACY: SURVIVING THE REAL WORLD

0725 1 CREDIT



In this course there will be a focus on higher education opportunities as well as financial options for continuing education. Students will explore aptitudes, interests, and careers. Students will develop skills for financial management to include managing bank accounts (including electronic banking), writing checks, maintaining a budget, filing taxes, analyzing a pay stub/fringe benefits, understanding and managing credit, protecting against identity theft, obtaining loans, investments, and insurance. Course will address consumer skills such as comparison shopping, menu planning and grocery shopping, couponing, and researching consumer goods and services.

*Grade level: 11, 12*

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## INTERIOR DESIGN & TEXTILES

0726 1 CREDIT



In this course, students will explore a broad range of topics relating to the various aspects and career opportunities available in the field of textiles and

design. The emphasis is placed on textiles project development, resource management, and home maintenance. Additional topics will include project collaboration, design elements and techniques, and environmental sustainability. Students will develop skills used by Interior Design professionals including the use of architectural tools and symbols, space planning, building professional relationships, and presentation and communication methods. Students will demonstrate skills through project based learning. Interior Designers are professionals who are organized, self-motivated, and proficient at communicating a design concept. Proficiency in class is achieved by replicating these job skills.

*Grade level: 9, 10, 11, 12*

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## RELATIONSHIPS AND PARENTING

0727 1 CREDIT



This course will address important aspects of human relationships, such as positive communication, conflict resolution, identifying qualities of healthy vs. unhealthy relationships, engagement/marriage, and family roles. Additional topics include reproductive health, pregnancy and prenatal development, labor and delivery, parenting, and the ever-changing family structure. Students will take a closer look at child development from conception to young adulthood. This course will study the physical, intellectual, social, emotional, and moral development of infants, toddlers, and school-aged children. Students will explore the ages and stages of growing children, developmental theories, child safety, childcare options, and effective disciplinary techniques.

*Grade level: 9, 10, 11, 12*

# FAMILY AND CONSUMER SCIENCES

Various interests which fall under the umbrella of Family and Consumer Sciences are explored. Students may choose from courses that explore an understanding of early childhood development, gain appreciation and knowledge of various cooking styles and techniques, and increase skills in personal development.

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## DYNAMIC LIVING

0728 1 CREDIT

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This comprehensive family and consumer sciences course is intended to teach skills, ideas, and concepts that students can use throughout their lives. Topics include: personal development, basic food preparation and nutrition, consumer skills, clothing care and fashion, and an introduction to interior design and child development. It provides a general overview of all other classes offered in the FCS department and is a great place to start on the road to independent living.

*Grade level: 9, 10*

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## CHILD DEVELOPMENT I

0732 1 CREDIT

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This course has been developed for high school students interested in human behavior and career opportunities available in child care services and early childhood/elementary education. Students will examine the role of a parent and teacher through the understanding of children and by use of “hands-on” activities with preschool children. August through October will focus on child development theory, while November through May will be hands-on experience.

❖ *Students must have a passing grade for the first marking period to participate in teaching preschool.*

*Grade level: 11, 12*

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## CHILD DEVELOPMENT II

0733 1 CREDIT

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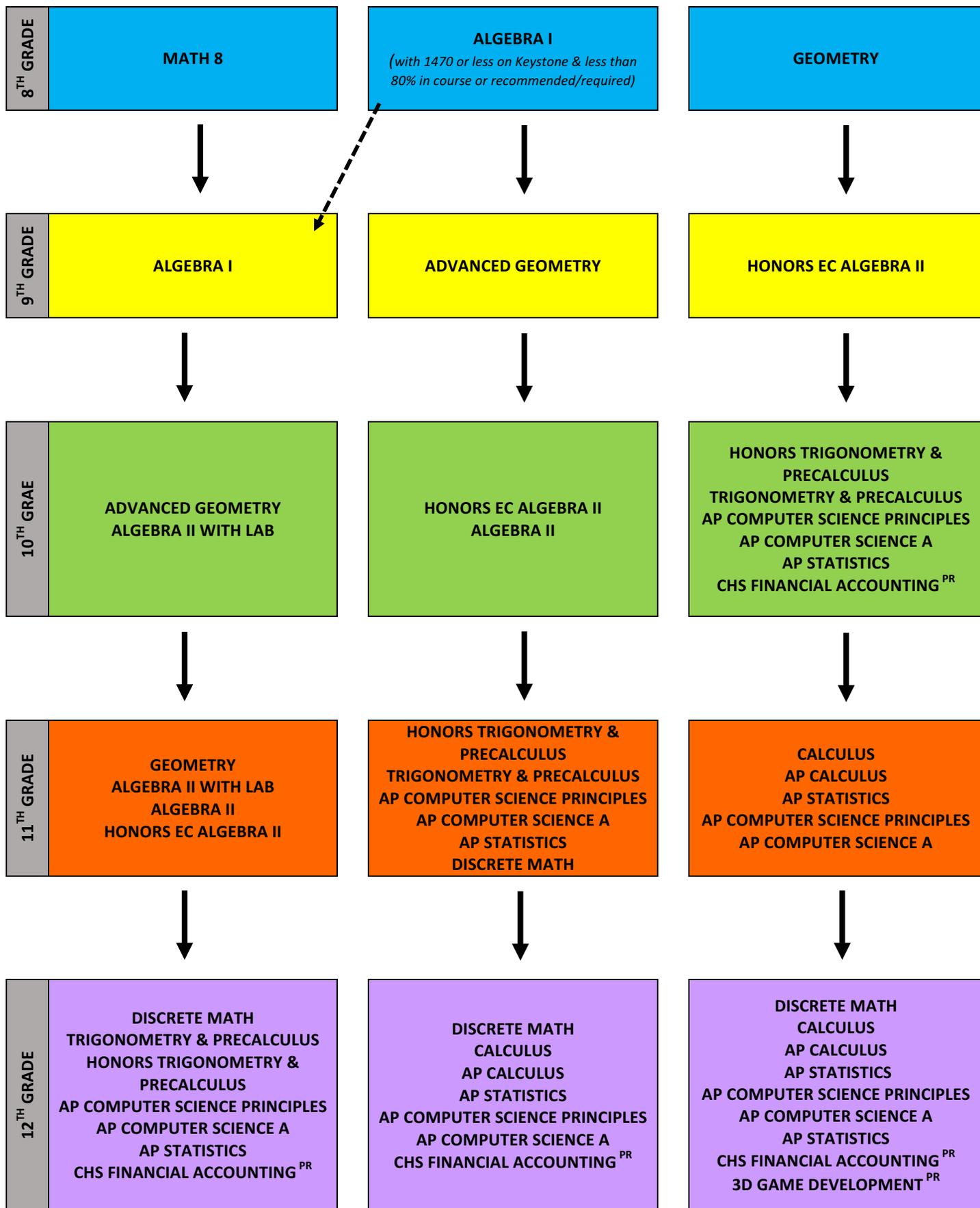


This class is an extension of Child Development I, reviewing the areas of development as well as learning the value and strategies to teach communication skills and projects. During the preschool session, October through early May, students will plan and implement daily lessons as well as one-week projects in our four year-old preschool classroom.

*Prerequisite: Completion of Child Development I with a grade of “B” or better*

*Grade level: 12*

# WEST ALLEGHENY HIGH SCHOOL MATH SEQUENCE



# MATHEMATICS

The West Allegheny Math Curriculum is aligned with Pennsylvania's Core Standards and taught through three core courses: Algebra I, Geometry, and Algebra II. In addition, topics from logical reasoning, measurement, probability, statistics, discrete math, and functions are interwoven throughout each. Honors courses offer a faster pace, greater challenge, and more mathematical theory. Additional advanced mathematics opportunities are available for students progressing beyond Algebra II.

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## ALGEBRA I 0308 1 MATH CREDIT/1 ELECTIVE CREDIT

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Algebra I represents the beginning of academic mathematics and offers the student a contemporary study of algebra. Topics included in the course are relationships between quantities and reasoning with equations, linear and exponential relationships, descriptive statistics, equations and expressions, and quadratic functions and modeling. This course will meet for 12 periods out of a 6 day rotation.

**Prerequisite:** *Solid background in basic computations*

**Grade level:** 9

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## GEOMETRY 0310 1 MATH CREDIT

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Geometry uses inductive and deductive approaches to cover the topics of plane and solid geometry. Students will develop skills necessary to make and verify conjectures through reasoning and/or proof. Topics include congruence with proof and constructions, similarity, similarity with trigonometry, extending to three dimensions, connecting algebra and geometry through coordinates, circles with and without coordinates, and applications of probability.

**Prerequisite:** *Successful completion of Algebra I and Algebra II with Lab or Teacher recommendation*

**Grade level:** 11

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## ADVANCED GEOMETRY 0311 1 MATH CREDIT

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Advanced geometry is designed for students with superior skills in mathematics because it provides a rigorous, in-depth look at the topics studied in Geometry. Students enrolled in this course must be able to reason deductively. Topics include congruence with proof and constructions, similarity, similarity with trigonometry, extending to three dimensions, connecting algebra and geometry through coordinates, circles with and without coordinates, and applications of probability. These topics will be taught with a heavy emphasis on proof and construction. The constructions will be done using compasses and straight edges and also using technology.

**Prerequisites:** *"B" or higher in Algebra I, Advanced on Algebra I Keystone, Teacher recommendation*

**Grade level:** 9, 10

# MATHEMATICS

The West Allegheny Math Curriculum is aligned with Pennsylvania's Core Standards and taught through three core courses: Algebra I, Geometry, and Algebra II. In addition, topics from logical reasoning, measurement, probability, statistics, discrete math, and functions are interwoven throughout each. Honors courses offer a faster pace, greater challenge, and more mathematical theory. Additional advanced mathematics opportunities are available for students progressing beyond Algebra II.

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## ALGEBRA II

0315 1 CREDIT

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Algebra II represents the continuation of academic mathematics and offers the student a contemporary study of algebra. This course will enable the students to understand, apply, and model real world situations with polynomial, rational, and radical relationships, trigonometric functions, modeling with functions, and inferences and conclusions with data.

*Prerequisites:* Successful completion of Algebra I and Advanced Geometry, Teacher recommendation

**Grade level:** 10, 11, 12

This course will meet for 9 periods out of a 6 day rotation.

*Prerequisites:* Successful completion of Algebra I, Teacher recommendation

**Grade level:** 9, 10, 11

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## HONORS EC ALGEBRA II

0317 1 CREDIT

**\*4 CCAC CREDITS POSSIBLE THROUGH ECIHSA**

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MAT 108 – INTERMED ALGEBRA (4 CR)

\*Must pass CCAC placement test. Placement of this course will vary based on year Advanced Geometry is completed.

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## ALGEBRA II WITH LAB

0316 1 MATH CREDIT/.50 ELECTIVE CREDIT

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Algebra II with lab is a continuation of the topics covered in Algebra I. Algebra II topics include linear functions, systems and inequalities using modeling and multiple representations, matrices, modeling and multiple representations; quadratic expressions and equations, polynomial expressions and equations, exponential functions, quadratic functions, higher order polynomials and rational functions, exponentials, complex numbers, functional notation, and probability. Students will use the lab time to further explore Algebra II topics and topics to be assessed on the Keystone Exam.

Honors EC (Early College) Algebra II is a rigorous preparation for advanced mathematics. Exercises are more challenging, including graphing calculator explorations involving investigation of algebraic concepts. Topics include: polynomial, rational, and radical relationships, trigonometric functions, modeling with functions, and inferences with conclusions from data. **\*Students may earn a weighted grade on the 4.5 scale for this course.**

*Prerequisite:* "B" or higher in Geometry or Advanced Geometry, Teacher recommendation

**Grade level:** 9, 10, 11

# MATHEMATICS

The West Allegheny Math Curriculum is aligned with Pennsylvania's Core Standards and taught through three core courses: Algebra I, Geometry, and Algebra II. In addition, topics from logical reasoning, measurement, probability, statistics, discrete math, and functions are interwoven throughout each. Honors courses offer a faster pace, greater challenge, and more mathematical theory. Additional advanced mathematics opportunities are available for students progressing beyond Algebra II.

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## TRIGONOMETRY/PRECALCULUS 0319 1 CREDIT

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Trigonometry/Precalculus provides a strong foundation of trigonometric and precalculus concepts, techniques, and applications to prepare students for more advanced work in mathematics. Technology is incorporated throughout the course to facilitate learning and doing mathematics. Students will develop quantitative reasoning and problem solving skills along with the ability to understand and communicate mathematical ideas effectively. Topics include: functions and graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, analytic trigonometry, and analytic geometry.

**Prerequisites:** Successful completion of Algebra II, Honors Algebra II, Teacher recommendation

**Grade level:** 10, 11, 12

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## HONORS TRIGONOMETRY/PRECALCULUS 0320 1 CREDIT

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Honors Trigonometry/Precalculus is a rigorous preparation for advanced mathematics courses. The exercises in this course are more challenging, including graphing calculator explorations involving investigations of precalculus and trigonometric concepts. Students will explore traditional trigonometry and pre-calculus at a deeper level.

Topics include: functions and graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, analytic trigonometry, and analytic geometry. **\*Students may earn a weighted grade on the 4.5 scale for this course.**

**Prerequisites:** "B" or higher in Honors Algebra II, Teacher recommendation

**Grade level:** 10, 11, 12

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## DISCRETE MATH 0321 1 CREDIT

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Discrete mathematics is the study of mathematical structures that are fundamentally discrete rather than continuous. In contrast to real numbers that have the property of varying "smoothly", the objects studied in discrete mathematics (such as integers, graphs, and statements in logic) have distinct, separated values. This course presents material involving computation theory with a strong emphasis on practical algorithms and experiential learning. This course is designed to prepare for a background in abstraction, notation and critical thinking for the mathematics. Topics include: logic, basic set theory, countability and counting arguments, proof techniques, graph theory, combinatorics, discrete probability, matrices number theory and graph theory. This course is designed to prepare students to become math, computer science and engineering majors.

**Prerequisites:** Successful completion of Algebra II or Algebra II with lab, Teacher recommendation

**Grade level:** 11, 12

# MATHEMATICS

The West Allegheny Math Curriculum is aligned with Pennsylvania's Core Standards and taught through three core courses: Algebra I, Geometry, and Algebra II. In addition, topics from logical reasoning, measurement, probability, statistics, discrete math, and functions are interwoven throughout each. Honors courses offer a faster pace, greater challenge, and more mathematical theory. Additional advanced mathematics opportunities are available for students progressing beyond Algebra II.

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## CALCULUS

0322 1 CREDIT

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Calculus provides an introduction to the concepts needed for success in a first year college calculus course. Precalculus concepts will be reviewed early in the course. Examples of additional topics included are limits, continuity, differentiation, mean value theorem, extrema, optimization, and related rates of change. Additional calculus topics will be explored as time allows. Use of a graphing calculator is incorporated in the development and application of concepts.

**Prerequisites:** Successful completion of Trigonometry/Precalculus

**Grade level:** 11, 12

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## AP CALCULUS AB

0323 1 CREDIT

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AP Calculus AB is a college level course. Students are expected to have exemplary skills in algebraic reasoning, trigonometry, and precalculus concepts. Topics include representation of functions, exponential, inverse, trigonometric, and rational functions, logarithms, limits, differentiation techniques, velocity and growth rate, interpretation of the derivative and the second derivative, Newton's Method, linearization, optimization, numerical integrations, integration techniques using

anti-differentiation and substitution, area measurements, vector operations, parametric curves, dot products, and motion in the plane. Students will take the AP exam which could allow them to receive college credit. \*Students may earn a weighted grade on the 5.0 scale for this course.

**Prerequisites:** "B" or higher in Honors Trigonometry/Precalculus or Trigonometry/Precalculus, Teacher recommendation

**Grade level:** 11, 12

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## AP STATISTICS

0324 1 CREDIT

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AP Statistics is a college level introductory course of the science of collecting, analyzing, and interpreting data. Students are expected to have above-average algebraic and reasoning skills. Topics include descriptive statistics, association and regression, causation and evidence, misleading statistics and bias in sample collection, probability, random variable and their distributions, distribution of sample means, confidence intervals for means and proportions, hypothesis tests of means and proportions in one sample, paired sample and two-sample t-tests, one-way analysis of variance, chi-square tests, and inference for slope in linear regression. These topics will be taught in conjunction with the TI-84 plus graphing calculator, Excel, and mini-tab, a statistical analysis program. Students will take the AP exam which could allow them to receive college credit. \*Students may earn a weighted grade on the 5.0 scale for this course.

**Prerequisites:** "B" or higher in Algebra II, Teacher recommendation

**Grade level:** 10, 11, 12

# PERFORMING ARTS

Students may elect to take coursework in theatre and dance as well as vocal, instrumental and technical areas of music. These classes are focused on providing performance opportunities, continuing to develop skills and concepts and the acquisition of new concepts and techniques. Advanced opportunities may be available for more established musicians and theatre arts students.

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**BAND I** 0750 6 DAY 1 CREDIT

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**BAND I** 0751 3 DAY .50 CREDIT

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**BAND II** 0753 6 DAY 1 CREDIT

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**BAND II** 0754 3 DAY .50 CREDIT

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**BAND III** 0756 6 DAY 1 CREDIT

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**BAND III** 0757 3 DAY .50 CREDIT

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A member of any of the band classes will have the opportunity to develop a sophisticated musical background through the academic study and performance of instrumental music. Emphasis is placed upon developing basic musicianship skills as well as advanced musicality and expression in many styles of music. While the concert band class during the school day is the core of the high school instrumental program, additional opportunities also exist for learning and performance through Marching Band, Jazz Ensemble, Percussion Ensemble, Small Ensembles, honors bands and enrichment activities.

**Prerequisites:** Placement in Band III is by audition and director permission ONLY.

**Grade level: 9, 10, 11, 12**

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## JAZZ STUDIES: VOCAL

0759 3 DAY .50 CREDIT

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## JAZZ STUDIES: INSTRUMENTAL

0760 3 DAY .50 CREDIT

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The *Jazz Studies* class provides a more specific opportunity for intense study, acceleration and enhancement for interested students to study jazz. The class will study performance styles, improvisation, theory and history through traditional methodology and current technologies. Students will be expected to improvise using appropriate scales and basic understanding of chord structures. ❖

**Prerequisite:** Must have band instrument experience or perform a vocal audition.

**Grade level: 9, 10, 11, 12**

❖ Participation in practices and performances including, but not limited to, dress rehearsals, concerts, festivals, and adjudication performances outside of the regular school day is **REQUIRED AND MANDATORY** as an integral part of achieving the goals of these courses.

# PERFORMING ARTS

Students may elect to take coursework in theatre and dance as well as vocal, instrumental and technical areas of music. These classes are focused on providing performance opportunities, continuing to develop skills and concepts and the acquisition of new concepts and techniques. Advanced opportunities may be available for more established musicians and theatre arts students.

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## BEGINNING PIANO

0762 3 DAY .50 CREDIT

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This course will teach the basics of piano including note reading, music theory and basic piano skills. Students will learn how to play the piano in a music lab equipped with keyboards and computers. Students will be required to practice and perform songs/repertoire during class for a grade. Students will use the Hal Leonard Adult Piano Method and Alfred's Beginner Piano Method among other supplementary materials. This class is open to piano players of all ability. No prior experience is required. Students interested in a career in music education are highly encouraged to take this course.

*Grade level: 9, 10, 11, 12*

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## BEGINNING GUITAR

0764 3 DAY .50 CREDIT

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This course will teach the basics of guitar including note reading, music theory and basic guitar skills. Students will learn how to play melodic lines as well as accompaniments. Students will be required to practice and perform songs/repertoire during class for a grade. Students will use the Hal Leonard Guitar Method Book 1 along with other supplementary materials. This class is open to guitar players of all ability levels. No prior experience is required. Students interested in a career in music education are highly encouraged to take this course.

*Grade level: 9, 10, 11, 12*

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## INTERMEDIATE PIANO

0763 3 DAY .50 CREDIT

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This course will continue the basics of piano including music theory and extended piano skills. Students will focus more on solo repertoire in addition to group piano methods. This class is open to players who have taken Beginning Piano or by teacher permission only.

*Grade level: 9, 10, 11, 12*

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## INTERMEDIATE GUITAR

0765 3 DAY .50 CREDIT

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This course will continue the basics of guitar performance. Students will focus more on higher level performance techniques, such as finger-picking, barre chords, and more. This class is open to players who have taken Beginning Guitar or by teacher permission only.

*Grade level: 9, 10, 11, 12*

# PERFORMING ARTS

Students may elect to take coursework in theatre and dance as well as vocal, instrumental and technical areas of music. These classes are focused on providing performance opportunities, continuing to develop skills and concepts and the acquisition of new concepts and techniques. Advanced opportunities may be available for more established musicians and theatre arts students.

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**CHORUS** 0766 6 DAY 1 CREDIT

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**CHORUS** 0768 3 DAY .50 CREDIT

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A member of each of the chorus classes will have the opportunity to develop a sophisticated musical background through the academic study and performance of choral music. Emphasis is placed upon developing basic musicianship skills as well as advanced musicality and expression in many styles of music. Students will study quality choral repertoire while developing comprehensive music reading skills and vocal technique. Additional opportunities also exist for learning and performance through honors choruses and enrichment activities. Students interested in a career in music education are highly encouraged to take this course. ❖

*Grade level: 9, 10, 11, 12*

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**SHOW CHOIR** 0774 6 DAY 1 CREDIT

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**SHOW CHOIR** 0775 3 DAY .50 CREDIT

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This class is a natural outgrowth of the large choruses as a select ensemble for singers who want to study more advanced choral repertoire in a variety of styles

The styles of music performed by this ensemble will include, but not be limited to, the following:

madrigals, chants, chorales, carols, ballads, spirituals, folk songs, patriotic songs, jazz and pop.

This ensemble demands a greater degree of performance area requirements and will be limited to 30 students.

A student in this ensemble for only 3 days must continue to be a member of Chorus. ❖

***Prerequisite:** Placement in Show Choir is by audition and director permission ONLY. Audition will be held in the spring of the prior school year.*

**Grade level: 9, 10, 11, 12**

❖ *Participation in practices and performances including, but not limited to, dress rehearsals, concerts, festivals, and adjudication performances outside of the regular school day is **REQUIRED AND MANDATORY** as an integral part of achieving the goals of these courses.*

# PERFORMING ARTS

Students may elect to take coursework in theatre and dance as well as vocal, instrumental and technical areas of music. These classes are focused on providing performance opportunities, continuing to develop skills and concepts and the acquisition of new concepts and techniques. Advanced opportunities may be available for more established musicians and theatre arts students.

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## DIGITAL AUDIO PRODUCTION I

0777 6 DAY 1 CREDIT

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## DIGITAL AUDIO PRODUCTION I

0778 3 DAY .50 CREDIT

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This course will focus on a variety of music technology experiences, including sequencing, recording, sampling, sound design, composition, and basic music notation. Students will explore music software such as GarageBand, Finale, and Logic among others. Students will learn basic components of recording and have hands on experiences using audio and digital recording equipment. Music reading experience is recommended but not required. Students interested in the music business industry, music education, or recording are highly encouraged to take this course.

*Grade level: 9, 10, 11, 12*

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## DIGITAL AUDIO PRODUCTION II

0779 6 DAY 1 CREDIT

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## DIGITAL AUDIO PRODUCTION II

0780 3 DAY .50 CREDIT

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This course will continue skills and concepts learned in Digital Audio Production I. Students will continue to study editing and recording techniques in ProTools, focusing on the use of compression, EQ and other effects. Student will also complete units in acoustics, recording drums/guitars/voice and room modification. Students will also be working in other audio programs

such as Logic, Reason, and Ableton Live creating projects and learning sequencing/editing techniques. Students will be expected to actively participate in the recording, engineering and editing of live performances throughout the year. This course is open to students who have completed Digital Audio Production I or equivalent. ❖

*Prerequisite: Completion of Digital Audio Production I with a "C" or higher or instructor permission*

*Grade level: 10, 11, 12*

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## ACTING AND TECHNICAL THEATRE

0785 6 DAY 1 CREDIT

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## ACTING AND TECHNICAL THEATRE

0786 3 DAY .50 CREDIT

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Students enrolled in Acting & Technical Theater will develop skills in both acting and technical theatre.

**Acting:** Students will learn and hone their skills as an actor or actress. Students will learn how to research pieces and identify dramatic elements. They will learn memorization techniques, blocking, characterization and much more. Advanced students will learn how to cut pieces and enhance dramatic elements within a piece as well as focus on advanced characterization, how to express emotions on stage, critiquing elements and more.

**Technical Theater:** Students will learn and hone their skills as a crew member. Students will learn how to use basic tools and construct simple set pieces. They will learn the functions of tools, building equipment, basic sound effects and simple lighting plots. Advanced students will learn how to program the sound and light boards, how to properly

# PERFORMING ARTS

Students may elect to take coursework in theatre and dance as well as vocal, instrumental and technical areas of music. These classes are focused on providing performance opportunities, continuing to develop skills and concepts and the acquisition of new concepts and techniques. Advanced opportunities may be available for more established musicians and theatre arts students.

run spotlights and the stage rigging system, and how to build simple stage sets and props.

This is a project-based class. The class focuses on “real world” aspects of theatre, and students will be responsible for the operation and handling of all of these aspects. All grading will be based on productions and performances both in and outside of class. ❖

*Grade level: 9, 10, 11, 12*

productions and performances both in and outside of class. ❖

*Grade level: 9, 10, 11, 12*

❖ *Participation in practices and performances including, but not limited to, dress rehearsals, concerts, festivals, and adjudication performances outside of the regular school day is **REQUIRED AND MANDATORY** as an integral part of achieving the goals of these courses.*

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## THEATRE COSTUMES AND MAKEUP

0788 6 DAY 1 CREDIT

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## THEATRE COSTUMES AND MAKEUP

0789 3 DAY .50 CREDIT

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Students enrolled in the Costumes & Make-Up will develop basic skills in both theatre costuming and make-up for stage.

**Costumes:** Students will learn how to design and create costumes and props for multiple shows, genres and time pieces. Students will learn how to size, alter and create costume designs.

**Makeup:** Students will learn basic to advanced make-up techniques for the stage. The techniques include powder, cream and airbrush make-ups as well as prosthetics. Students will learn how to apply and change make-up based on various designs and talent.

This is a project-based class. The class focuses on “real world” aspects of theatre, and students will be responsible for the operation and handling of all of these aspects. All grading will be based on

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## DANCE

0792 6 DAY 1 CREDIT

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## DANCE

0793 3 DAY .50 CREDIT

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Explore the art of dance while keeping physically fit! This course will expose students to classical and current dance genres including ballet, jazz, modern, tap and hip hop. Each unit will highlight famous performance pieces and choreographers in addition dance technique. Daily classes will include a center floor warm-up and short choreography combination. Students will learn about the elements of choreography and have the opportunity to create their own piece. Performance opportunities will be available but not required. No dance experience necessary.

**Attire:** Students must dress for class in fitted comfortable clothes that allow for full range of motion. Dance shoes, tennis shoes, or bare feet recommended.

*Grade level: 9, 10, 11, 12*

# PHYSICAL EDUCATION AND HEALTH

Physical Education is required each year at the high school level and must be successfully completed in order to meet state and district graduation requirements. Students who do not successfully complete any year of Physical Education or Health will be scheduled for the next grade level plus a repeat course. Students in 11<sup>th</sup> and 12<sup>th</sup> grade may apply to have up to 1.00 credit of Physical Education waived with principal approval in the event of a schedule conflict and/or extenuating circumstances.

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## PHYSICAL EDUCATION 9 0800 .25 CREDIT

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Physical Education courses are designed to provide students with instruction and experience in a wide variety of individual and team physical activities. Emphasis is placed on attaining skills and knowledge necessary to pursue a health enhancing level of physical fitness as an adult. This will be facilitated through an emphasis on the development of positive self-image, leadership, teamwork, and cooperation with others, and other skills necessary for transferring class experiences to life-long participation in athletic and leisure-time recreational activities.

The ninth grade program is focused mainly on fitness-based physical activity. Units include but are not limited to: fitness training and testing, aquatics (stroke development and conditioning swim), cardio sports, weight training and dance.

*This course meets three days per rotation for one semester and is required for all freshmen. Health and Wellness 9 will be scheduled during the same three days during the opposite semester.*

**Grade level: 9**

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## HEALTH AND WELLNESS 9 0801 .25 CREDIT

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This course is required of all ninth grade students. It will provide information, instruction and experiences that will enable the students to gain the basic knowledge and essential skills and attitudes they will need to be successful in high school and beyond. Components of the course will include: communicating effectively, assessing and evaluating individual health/wellness, goal setting, coping with loss, stress management, suicide prevention, physical fitness, healthy relationships and abstinence, sex education, and sexually transmitted disease education. This course emphasizes intelligent decision-making and the need to be responsible for one's actions and one's health and well-being. Concepts are also reinforced through an open mind-set approach to learning.

*This course meets three days per rotation for one semester and is required for all freshmen. Physical Education 9 will be scheduled during the same three days during the opposite semester.*

**Grade level: 9**

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## PHYSICAL EDUCATION 10 0802 .25 CREDIT

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Physical Education courses are designed to provide students with instruction and experience in a wide variety of individual and team physical activities. Emphasis is placed on attaining skills and knowledge necessary to pursue a health enhancing level of physical fitness as an adult. This will be

# PHYSICAL EDUCATION AND HEALTH

Physical Education is required each year at the high school level and must be successfully completed in order to meet state and district graduation requirements. Students who do not successfully complete any year of Physical Education or Health will be scheduled for the next grade level plus a repeat course. Students in 11<sup>th</sup> and 12<sup>th</sup> grade may apply to have up to 1.00 credit of Physical Education waived with principal approval in the event of a schedule conflict and/or extenuating circumstances.

facilitated through an emphasis on the development of positive self-image, leadership, teamwork, and cooperation with others, and other skills necessary for transferring class experiences to life-long participation in athletic and leisure-time recreational activities.

The tenth grade program is focused mainly on fitness-based physical activity, as well as team, individual and dual sport offerings. Units include but are not limited to: fitness training and testing, aquatics, cardio sports, team sports, individual and dual sport.

*This course meets three days per rotation for one semester and is required for all sophomores. Health Education 10 will be scheduled during the same three days during the opposite semester.*

**Grade level: 10**

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## HEALTH AND WELLNESS 10 0803 .25 CREDIT

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Health 10 is a semester course for all tenth grade students and is a requirement for graduation. It is designed to provide students with a basic framework of knowledge necessary to develop positive attitudes and practices. Units of study will include, but are not limited to: nutrition, eating disorders, understanding drug use and addiction (recreational & prescription), preventing violence and abuse, preventing infectious diseases, and first aid and CPR. This course will make use of a combination of lectures, power point presentations, class discussion, student oral presentations, guest speakers, student activities and a life issues research paper.

*This course meets three days per rotation for one semester and is required for all sophomores. Physical Education 10 will be scheduled during the same three days during the opposite semester.*

**Grade level: 10**

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## TEAM SPORTS

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**0804 .50 CREDIT**



This class is designed for the highly competitive student that enjoys high energy and high intensity games and activities. Students in this class should be able to work well as part of a team in a highly competitive setting. This class will place an emphasis on several different types of sports including basketball, touch football, ultimate Frisbee, soccer, softball, team handball, speed ball, wall ball, and various others.

**Grade level: 11, 12**

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## PERSONAL FITNESS AND SPORT

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**0805 .50 CREDIT**



The purpose of this course is to motivate students to achieve lifetime personal fitness with an emphasis on the health-related components of physical fitness. The concept of wellness, or striving to reach optimal levels of health, is the corner stone of this course. Personal fitness units in this course include, but are not limited to; Zumba, Yoga, Pilates, P90X,

# PHYSICAL EDUCATION AND HEALTH

Physical Education is required each year at the high school level and must be successfully completed in order to meet state and district graduation requirements. Students who do not successfully complete any year of Physical Education or Health will be scheduled for the next grade level plus a repeat course. Students in 11<sup>th</sup> and 12<sup>th</sup> grade may apply to have up to 1.00 credit of Physical Education waived with principal approval in the event of a schedule conflict and/or extenuating circumstances.

aerobics, and power walking and jogging. This course will also include fitness game activities (e.g. wall ball and scooter games).

*Grade level: 11, 12*

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## GAMES AND LEISURE ACTIVITIES

0806 .50 CREDIT



This course is designed for less competitive students that still enjoy high energy games and activities. Students in this class will need to be able to work well as part of a team in a competitive setting. This class will place an emphasis on several different types of sports and games including, but not limited to; wall ball, scooter activities, kickball, wacky bat, badminton, pickle ball, indoor hockey and various others.

*Grade level: 11, 12*

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## AEROBIC FITNESS

0807 .50 CREDIT



Aerobic Fitness is designed to offer low impact and low intensity exercises for the purpose of improving aerobic fitness and cardiovascular endurance. The course focuses on the five components of health-

related fitness and will include activities that enhance the student's ability to improve in each area. Activities in this course include, but are not limited to; walking, riding a recumbent bike, low-impact aerobic activities, and activities to improve muscular strength and flexibility.

*Grade level: 11, 12*

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## PHYSICAL CONDITIONING

0820 1 CREDIT



Through the facilitation of the curriculum, students are provided opportunities to fully learn, comprehend, display, and challenge the many physical and mental benefits of a well-rounded and coached Physical Conditioning program.

This class encompasses small to large group training ranging from broad generalized needs down to specific individual areas of improvement. The way in which this program is delivered promotes accountability through an aggressive approach to education. Students are encouraged and empowered to challenge themselves creating a very supportive and motivating atmosphere.

Classes are calculated and developmental in nature proving that an intense approach to health and wellness can lead to a higher standard of fitness in high school students. Daily classes focus on strength, speed, aerobic and anaerobic fitness, flexibility, mobility, and suppleness. Students can expect to learn proper weight training exercises, techniques for moving their body efficiently and explosively, plus various forms of conditioning protocols. These modes of physical conditioning

# PHYSICAL EDUCATION AND HEALTH

Physical Education is required each year at the high school level and must be successfully completed in order to meet state and district graduation requirements. Students who do not successfully complete any year of Physical Education or Health will be scheduled for the next grade level plus a repeat course. Students in 11<sup>th</sup> and 12<sup>th</sup> grade may apply to have up to 1.00 credit of Physical Education waived with principal approval in the event of a schedule conflict and/or extenuating circumstances.

deliver different intentional stressors to the body where the student is required to adapt and overcome.

Due to the active involvement of students in this course, and that many of them are committed to junior varsity and varsity programs for four years; physical conditioning can be taken every academic year as long as the student maintains a minimum grade of an 85% each academic year in this course.

**Grade level: 9, 10, 11, 12**

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## EXERCISE SCIENCE

0831 1 CREDIT

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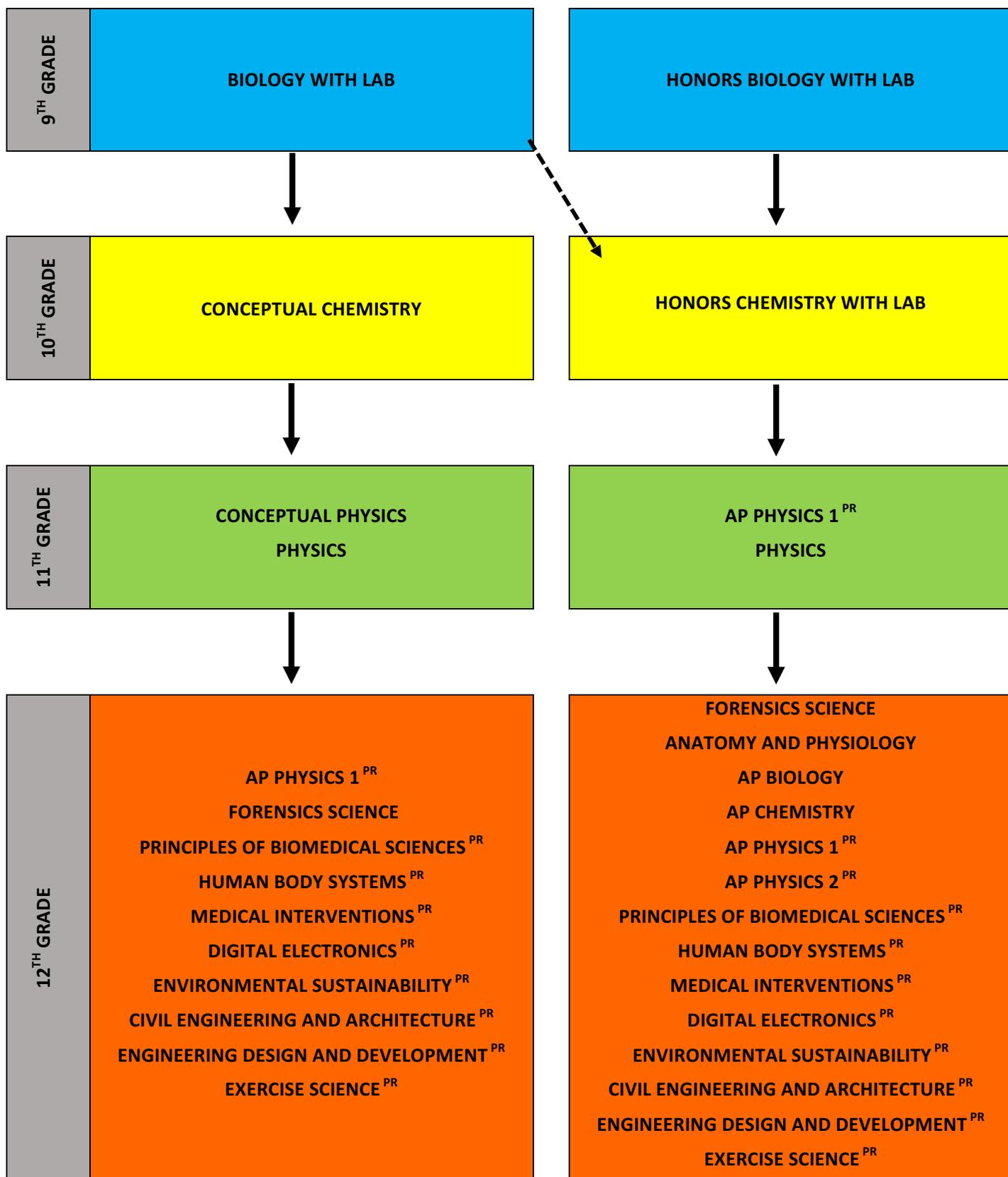
This course provides an overview of exercise science theory and principles and an examination of the physiological responses to both acute and chronic physical activity. The impact of environment, supplements, detraining and overtraining on physiological responses to exercise will also be highlighted. Various techniques utilized to assess physiological responses to exercise will also be discussed. The course will also highlight the exploration of therapeutic careers, medical terminology, sports nutrition, sports psychology, injuries and injury prevention and the performance enhancement philosophies.

**Prerequisites:** "B" grade or higher in both Health and Wellness 9 and Health Education 10

**Grade level: 11, 12**

❖ **This course may count toward a student's fourth science credit.**

# WEST ALLEGHENY HIGH SCHOOL SCIENCE SEQUENCE



<sup>PR</sup> CHECK PREREQUISITES IN COURSE DESCRIPTIONS

# SCIENCE

The West Allegheny High School Science curriculum offers students a variety of opportunities for learning and exploration in the areas of earth and space science, biology, chemistry and physics. Additionally, several electives and advanced courses are available to students with strong interest in the sciences and a desire to prepare for a career in a science or science-related career or course of study following graduation.

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## BIOLOGY WITH LAB

0402 1.50 CREDIT

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Biology, the study of life, distinguishes living organisms from the nonliving by focusing on the common characteristics of life. There is a focus of study in the following areas: Scientific Processes, Tools and Technologies, Cellular Structure and Function, Biochemical Organization, Genetics, Heredity, Evolution, Ecology, and Human Biology.

**Grade level: 9**

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## HONORS BIOLOGY WITH LAB

0403 1.50 CREDIT

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Biology, the study of life, distinguishes living organisms from the nonliving by focusing on the common characteristics of life. There is a focus of study in the following areas: Scientific Processes, Tools and Technologies, Cellular Structure and Function, Biochemical Organization, Genetics, Heredity, Evolution, Ecology, and Human Biology. This is a challenging, fast paced, in-depth course with extensive labs and major term projects geared towards very high level 9<sup>th</sup> grade students. \*Students may earn a weighted grade on the 4.5 scale for this course.

**Prerequisites:** A 90% average through all grading periods in 8<sup>th</sup> grade science AND teacher recommendation.

**Grade level: 9**

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## CONCEPTUAL CHEMISTRY

0404 1 CREDIT

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The course centers on chemistry related technological issues confronting society and the world. Major chemistry concepts, basic vocabulary and laboratory skills are presented. The course serves as a terminal chemistry course to meet science requirements for the general college bound student. A conceptual framework will be provided for modern chemistry and students will gain experience and appreciation of chemistry through experimentation and inquiry. Labs will involve quality and less quantity and a reduction in complexity of mathematics. Students will participate in projects that will develop the following skills: writing, critical thinking, technology usage, research, time management, labs, lab reports, and presentation skills.

**Grade level: 10, 11**

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## HONORS CHEMISTRY WITH LAB

0405 1.50 CREDIT

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In this course, the student is introduced to the methods and contents of the fundamentals of chemistry. Concepts introduced in the classroom are explored in the lab as basic lab skills are developed. The course meets the needs of those required to take a first year college chemistry course. \*Students may earn a weighted grade on the 4.5 scale for this course.

**Prerequisites:** Students must have completed Algebra I AND Biology I or Honors Biology with an 85% or higher

**Grade level: 10, 11**

# SCIENCE

The West Allegheny High School Science curriculum offers students a variety of opportunities for learning and exploration in the areas of earth and space science, biology, chemistry and physics. Additionally, several electives and advanced courses are available to students with strong interest in the sciences and a desire to prepare for a career in a science or science-related career or course of study following graduation.

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## CONCEPTUAL PHYSICS

0406 1 CREDIT



This course deals with the concepts of basic physics by using equations, tables, graphs, and labs. Areas of discussion include measurement, motion, force, velocity, acceleration, momentum, impulse, work, energy, power, and heat.

*Grade level: 11, 12*

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## PHYSICS

0407 1 CREDIT



Physics is a college preparatory course that enables students to experience science through a hands on approach which requires them to think critically, apply math skills, collaborate with those around them, and communicate their answers using evidence. Topics that will be discussed in this course are as follows: Scientific Thinking & Reasoning, Kinematics, Dynamics (Newton's Laws), Energy, Momentum, Rotational Motion, and Wave Mechanics.

**Corequisite:** Concurrently in Algebra II or higher

*Grade level: 11, 12*

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## FORENSIC SCIENCE

0408 1 CREDIT



Forensic science is one of the fastest growing fields in the country and is a vital part of the criminal justice system. The course will consist of 8-10 case studies incorporating the application of biology, chemistry, physics, and math into criminal investigation. Through lectures and laboratory experiments, students will learn the skills used by forensic scientists for solving crimes. The course is primarily designed as a project based course that focuses on the development of logical thinking skills and problem solving procedures through the collection and analysis of data. Some of the topics to be included are: specimen collections, glass and soil analysis, analyses of DNA, fingerprints, hair & fibers, documents, simulated blood splatter, simulated drugs and poisons, cyber-crime and murder mystery scenarios.

*Grade level: 11, 12*

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## ANATOMY AND PHYSIOLOGY

0409 1 CREDIT



This is a fast paced, in depth course which studies specific areas of biological sciences, including anatomy, physiology, genetics, microbiology, and microecology. Individual dissection and lab work are required. This course is designed for those students having a high interest in the biological sciences who want to pursue a career in the medical, nursing or physical therapy fields. \*Students may earn a weighted grade on the 4.5 scale for this course.

# SCIENCE

The West Allegheny High School Science curriculum offers students a variety of opportunities for learning and exploration in the areas of earth and space science, biology, chemistry and physics. Additionally, several electives and advanced courses are available to students with strong interest in the sciences and a desire to prepare for a career in a science or science-related career or course of study following graduation.

**Prerequisites:** Students must have passed Honors Biology OR Biology with a "B" or higher AND Honors Chemistry with a "C" or higher OR Conceptual Chemistry with an "A" AND have a score in the Proficient or Advanced range on the Keystone Biology Exam.

If an interested student does not have the above prerequisites, he/she must have prior approval of a Biology teacher before enrolling in this course.

**Grade level: 11, 12**

## AP BIOLOGY

0410 1.50 CREDIT



This course is a high level biology course designed to prepare students for the AP Biology Exam in May, which could allow them to receive college credit. This course is very rigorous and will place heavy demands on students. Instruction will be fast paced and encompass extensive biological content. Students will be expected to complete many self-guided laboratory investigations. The topics of emphasis will include biological principles, biochemistry, cell biology, bioenergetics, genetics, evolution, ecology, and organismal biology. This course is designed to be taken by students after the successful completion of Honors Biology and Honors Chemistry. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. \*Students may earn a weighted grade on the 5.0 scale for this course.

**Prerequisites:** Students must have passed Honors Biology AND Honors Chemistry with a "B" or higher AND have prior teacher permission

**Corequisite:** Students in 10<sup>th</sup> grade must be enrolled in Honors Chemistry concurrently

**Grade level: 10\*, 11, 12**

**NOTE: This course has a summer reading and writing requirement; students should collect the materials before they leave school for the summer.**

## AP CHEMISTRY

0411 1.50 CREDIT



This is a rigorous chemistry class, designed to be the equivalent of the general chemistry course usually taken during the first year of college. Through a variety of lesson formats and assignments, students will have the opportunity to develop their problem solving skills, laboratory techniques, and written and verbal communication skills. Students will take the AP exam which could allow them to receive college credit. \*Students may earn a weighted grade on the 5.0 scale for this course.

**Prerequisite:** "A" or higher in Honors Chemistry or approval from a chemistry teacher

**Grade level: 11, 12**

**NOTE: This course has a summer reading and writing requirement; students should collect the materials before they leave school for the summer.**

## AP PHYSICS 1

0412 1.50 CREDIT

4 CCAC CREDITS POSSIBLE THROUGH ECIHSA



PHY 141 – PHYSICS 1 (4 CR)

\*MUST PASS MAT 108 or SCORE INTO COLLEGE MATH ON PLACEMENT TEST

AP Physics 1 is equivalent to a first-semester college course in algebra-based physics. Students will develop deep conceptual understandings about

# SCIENCE

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Kinematics, Dynamics (Newton's Laws), Rotational Dynamics, Conservation of Energy, Momentum, Mechanical Waves, Sound, and Circuits. Having a deep understanding of physics principles implies the ability to reason about physical phenomena using science process skills such as explaining causal relationships, applying and justifying the use of mathematical routines, designing experiments, analyzing data, and making connections across multiple topics in the course. Students seeking to major in engineering, science, or any STEM related fields in college are strongly encouraged to enroll.

This course is designed to prepare students for the AP Physics 1 Exam in May, which could allow them to receive college credit. This course is rigorous and will place heavy demands on students in terms of intellectual hurdles and personal time management. AP Physics 1 will challenge students and demand that they think and learn in ways that they may previously never have experienced. This course relies heavily on students' math and algebra skills.

It is highly recommended that students successfully complete Honors Chemistry & Lab before enrolling. Students choosing to bypass Honors Chemistry & Lab must sign a waiver to enroll. **\*Students may earn a weighted grade on the 5.0 scale for this course.**

**Prerequisites:** "C" or higher in both Algebra I and Geometry and Honors Chemistry/Chemistry teacher recommendation.

**Highly Recommended:** "C" or higher in Honors Chemistry & Lab

**Corequisite:** Algebra II or higher

**Grade level:** 10, 11, 12

**NOTE: This course has a summer reading and writing requirement; students should collect the materials before they leave school for the summer.**

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## AP PHYSICS 2

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0413 1.50 CREDIT



AP Physics 2 is equivalent to a second-semester college course in algebra-based physics and is a continuation of AP Physics 1. The course is designed to further help students construct enduring understanding(s) of content, develop/improve problem solving skills, sharpen math skills, cultivate data collection and analysis skills, and apply acquired knowledge to solve complex AP-level problems. Students will develop conceptual understandings about Fluid Mechanics; Thermodynamics; Electricity and Magnetism; Optics; Atomic and Nuclear Physics; General Relativity; and other major topics from AP Physics 1. Students seeking to major in engineering, science, or any STEM related fields in college are strongly encouraged to enroll.

This course is designed to prepare students for the AP Physics 2 Exam in May, which could allow them to receive college credit. This course is rigorous and will place heavy demands on students in terms of intellectual hurdles and personal time management.

Successful completion of AP Physics 1 or Physics (or an equivalent course from another high school) is a non-negotiable prerequisite. **\*Students may earn a weighted grade on the 5.0 scale for this course.**

**Prerequisite:** "C" or higher in AP Physics 1 or "B" or higher in Physics and teacher permission

**Grade level:** 11, 12

**NOTE: This course has a summer reading and writing requirement; students should collect the materials before they leave school for the summer.**

# SCIENCE

The West Allegheny High School Science curriculum offers students a variety of opportunities for learning and exploration in the areas of earth and space science, biology, chemistry and physics. Additionally, several electives and advanced courses are available to students with strong interest in the sciences and a desire to prepare for a career in a science or science-related career or course of study following graduation.

## PROJECT LEAD THE WAY (PLTW) BIOMEDICAL SCIENCES CURRICULUM

The PLTW Biomedical Sciences (BMS) Program is a sequence of courses, all aligned with appropriate national learning standards, which follows a proven hands-on, real-world problem-solving approach to learning. Students explore the concepts of human medicine and are introduced to topics such as physiology, genetics, microbiology and public health. Through activities, like dissecting a heart, students examine the processes, structures and interactions of the human body – often playing the role of biomedical professionals. They also explore the prevention, diagnosis and treatment of disease, working collaboratively to investigate and design innovative solutions to the health challenges of the 21st century such as fighting cancer with nanotechnology.

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### PRINCIPLES OF THE BIOMEDICAL SCIENCES 0422 1 CREDIT

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Students investigate various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictitious person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, and research processes. This course provides an overview of all the courses in the

Biomedical Sciences program and lays the scientific foundation for subsequent courses. **\*Students may earn a weighted grade on the 5.0 scale for this course.**

**Prerequisites:** An 80% in Honors Biology & Lab OR a 90% in Biology I & Lab AND teacher recommendation.

**Grade level: 10, 11, 12**

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### HUMAN BODY SYSTEMS 0423 1 CREDIT

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Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the roles of biomedical professionals to solve medical mysteries. This is an activity-based course and has little lecture and passive learning. The emphasis is on student participation and effort in activities, projects, and labs. **\*Students may earn a weighted grade on the 5.0 scale for this course.**

**Prerequisites:** Completion of Principles of the Biomedical Sciences with a "C" or better, a score in the Proficient or Advanced range on the Keystone Biology Exam, AND teacher recommendation.

**Grade level: 11, 12**

# SCIENCE

The West Allegheny High School Science curriculum offers students a variety of opportunities for learning and exploration in the areas of earth and space science, biology, chemistry and physics. Additionally, several electives and advanced courses are available to students with strong interest in the sciences and a desire to prepare for a career in a science or science-related career or course of study following graduation.

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## MEDICAL INTERVENTIONS

0424 1 CREDIT

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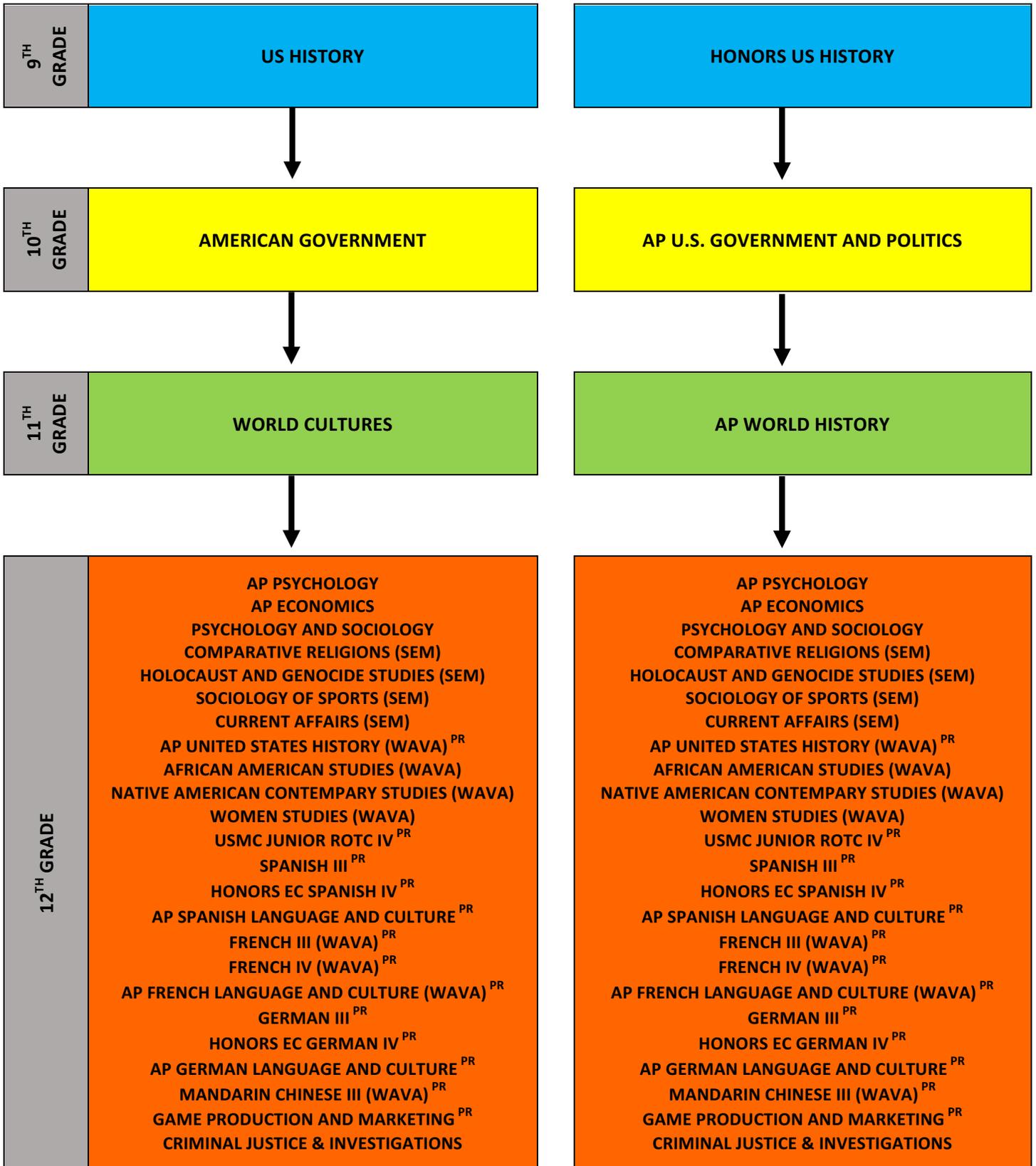


Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. **\*Students may earn a weighted grade on the 5.0 scale for this course.**

**Prerequisites:** Completion of *Human Body Systems* with a "C" or better OR completion of *Principles of the Biomedical Sciences* with an 85% (if taken concurrently with *Human Body Systems*), a score in the Proficient or Advanced range on the *Keystone Biology Exam*, AND teacher recommendation.

**Grade level: 11, 12**

# WEST ALLEGHENY HIGH SCHOOL SOCIAL STUDIES SEQUENCE



<sup>PR</sup> CHECK PREREQUISITES IN COURSE DESCRIPTIONS

# SOCIAL STUDIES

The West Allegheny Social Studies Curriculum offers students a variety of opportunities for learning. History, culture, social science, economics, geography, law, and government are presented across the curriculum.

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## U.S. HISTORY

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0210 1 CREDIT



This course examines the major turning points in American history beginning with the events leading up to the changing nature of business and government, World War I, the Great Depression, World War II, the growth of the U.S. as a world power, the Cold War, the struggle to achieve class, ethnic and gender equality as well as extending to the modern day. Contemporary world issues such as globalization, economic interdependence and terrorism will also factor into our analysis of international conflict and cooperation. Current events are integrated into the curriculum on a daily basis so that students may see modern connections between *then and now*. Current events are an important way to enhance your understanding of history and make you a more civic-minded and conscientious citizen.

*Grade level: 9*

*Prerequisite: A 90% or higher average through all grading periods in 8<sup>th</sup> grade social studies*

**Grade level: 9**

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## U.S. HISTORY 9

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0212 1 CREDIT



This course is designed to acquaint the young American with his/her heritage from the past as it relates to the present. Emphasis is given to the period from the beginning of the 20th century to the present with topics covering the important changes that have occurred in areas of politics, economics, foreign affairs, and culture in the United States during the early years. In addition to the course curriculum for U.S. History [210], this course will provide additional reading support and study skills for each student. The main goal is to teach the content at a pace in which the students can attain and perform academic achievement.

*Grade level: 9*

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## HONORS U.S. HISTORY

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0211 1 CREDIT



Honors United States History is an academically demanding course of American History and economy. A high level of reading comprehension, independent study, and study skills is required to master areas of debate, analysis, problem solving, and essay development. Students will be required to read novels and make presentations, including one 10 minute peer teaching assignment, throughout the course. This course will be taught at a higher level than the traditional United States history course. \*Students may earn a weighted grade on the 4.5 scale for this course.

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## AMERICAN GOVERNMENT

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0230 1 CREDIT



A course of American government and economy. This course contains units on national, state and local governments, our political system, and our free enterprise economic system. Students attain knowledge, skills and attitudes, which will enable them to be active, responsible citizens.

**Grade level: 10, 11**

# SOCIAL STUDIES

The West Allegheny Social Studies Curriculum offers students a variety of opportunities for learning. History, culture, social science, economics, geography, law, and government are presented across the curriculum.

backgrounds greatly influence decisions and priorities.

*Grade level: 11, 12*

## AP UNITED STATES GOVERNMENT AND POLITICS

0232 1 CREDIT

3 CCAC CREDITS POSSIBLE THROUGH ECIHSA



POL 103 – AMERICAN GOVERNMENT (3 CR)

Advanced Placement United States Government and Politics is an intensive study of the major institutions of our national government as well as the foundations and beliefs upon which that government is based. A thorough analysis of our political parties will serve as an integral part of that study. Prospective students will have the opportunity to evaluate the role of the mass media in our society as it relates to the day to day functioning of the government as well as the protections of our civil rights and liberties guaranteed by the constitution. Students will take the AP exam which could allow them to receive college credit. No summer work is required for this course. \*Students may earn a weighted grade on the 5.0 scale for this course.

**Prerequisite:** A 90% or higher in all previous social studies courses

*Grade level: 10, 11, 12*

## AP WORLD HISTORY

0238 1 CREDIT



The AP World History course focuses on developing students' understanding of world history from approximately 8000 B.C.E. to the present. The course has students investigate the content of world history for significant events, individuals, developments, and processes in six historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past.

The course also provides five themes (interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures) that students explore throughout the course in order to make connections among historical developments in different times and places encompassing the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania. \*Students may earn a weighted grade on the 5.0 scale for this course.

**Prerequisite:** A 90% or higher in all previous social studies courses

*Grade level: 11, 12*

## WORLD CULTURES

0236 1 CREDIT



World Cultures will center on the following essential question: How does cultural identity shape us as humans? Through the course of the year, students will work to gain an understanding of the ways in which culture impacts society as a whole. Students will focus on different elements of culture in general and apply that understanding to specific world events and regions. Students will understand that cultural

# SOCIAL STUDIES

The West Allegheny Social Studies Curriculum offers students a variety of opportunities for learning. History, culture, social science, economics, geography, law, and government are presented across the curriculum.

## AP UNITED STATES HISTORY (WAVA ONLY)

V239 1 CREDIT



This online course is designed to provide learners with the opportunity to think critically and gain factual knowledge about US History. Students will learn to analyze and critique historical materials and evaluate historical interpretations presented in research. Each unit provides students with a survey of US history topics in which they analyze problems and themes for each era through supplementary readings while developing and deepening their understanding of events, people and places relevant during the time period. This course is meant to have students think conceptually about the issues facing the United States and how those issues have influenced history. End of unit activities contain either a Document Based Question (DBQ) or a Free-Response question for students to respond to in essay format. Most of these questions are taken from previous AP US History exam questions, to help students prepare for the AP US History exam. \*Students may earn a weighted grade on the 5.0 scale for this course.

*Prerequisite:* A 90% or higher in all previous social studies courses

*Grade level:* 10, 11, 12

## AP PSYCHOLOGY

0240 1 CREDIT



The Advanced Placement Psychology program offers a course and an exam in psychology to qualified students who wish to complete studies in secondary

school. This course is designed to be equivalent to an introductory college course in psychology. Advanced reading and critical thinking skills are required. Students are introduced to the behavior and mental processes of human beings and other animals. Students are also exposed to the psychological facts, principles and phenomena associated with each of the major subfields within psychology. Requirements for the class include, but are not limited to, the following; research projects, presentations, essays, analysis projects. Assessments are mirrored after the AP Exam which include essay and multiple choice questioning for formal assessments. A strong emphasis on non-fiction text is part of this course. Students will take the AP exam which could allow them the opportunity to receive college credit. Summer course is offered as a way to get ahead for the upcoming school year. \*Students may earn a weighted grade on the 5.0 scale for this course.

*Prerequisite:* A 90% or higher in all previous social studies courses

*Grade level:* 11, 12

**NOTE: This course has a summer reading and writing requirement; students should collect the materials before they leave school for the summer.**

## CRIMINAL JUSTICE & INVESTIGATIONS

0243 1 CREDIT

6 CCAC CREDITS POSSIBLE THROUGH ECIHSA



CJC 101 – INTRO CRIMINAL JUSTICE (3CR)  
CJC 201 – FUND CRIMINAL INVEST (3 CR)

This course will study crime and its societal reaction, as well as the various components of the criminal

# SOCIAL STUDIES

The West Allegheny Social Studies Curriculum offers students a variety of opportunities for learning. History, culture, social science, economics, geography, law, and government are presented across the curriculum.

justice system as a whole. Furthermore, students will be exposed to the fundamentals of criminal investigation, including techniques utilized, and problem solving in the field. Students will analyze the major theories behind criminal causation, control and rehabilitation of the offender, and criminal investigation as a whole. Specific topics covered will include: Case preparation, questioning of witnesses and suspects, and the collection and preservation of evidence. \*Students may earn a weighted grade on the 5.0 scale for this course.

*Grade level: 10, 11, 12*

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## AP ECONOMICS

0242 1 CREDIT

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This course teaches Macroeconomics using an AP approved course outline with the most commonly used college textbook. The course is taught with a “college with training wheels” approach. Students will be expected to develop critical thinking skills through the understanding, application and analysis of fundamental economic concepts. Students will apply quantitative and mathematical skills to a wide variety of real-world and hypothetical situations. Economics courses are typically a basic requirement for a college undergraduate degree. Students will take the AP exam which could allow them to receive college credit. At a minimum, the student will enter college with a strong economics foundation. No summer work is required for this course. \*Students may earn a weighted grade on the 5.0 scale for this course.

*Prerequisites: Must be in at least Algebra II and have successfully completed two honors level or higher social studies courses*

*Grade level: 11, 12*

**NOTE: This course has a summer reading and writing requirement; students should collect the materials before they leave school for the summer.**

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## PSYCHOLOGY AND SOCIOLOGY 0244 1 CREDIT

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The psychology portion of this course focuses on individual behavior. Topics will include dreams, multiple intelligences, body language, personality type, psychological tests and mental health disorders. Students will be expected to complete research and give presentations on psychological issues. Higher level discussions will be highlighted in debates and Socratic Seminars.

The Sociology portion of this course deals with the social atmosphere that helps to make us who we are and contributes to how we behave. Sociology will cover topics such as culture and religion, violence, deviance, social control, socialization and personality, group behavior, social class and social institutions. The focus will be on society and how it influences our behavior. Students will be expected to complete research and give presentations on Serial Killers and Religion. Higher level discussions will take place during debates and Socratic Seminars.

*Grade level: 11, 12*

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## COMPARATIVE RELIGIONS

0246 .50 CREDIT

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A comparative study of the world’s major religions, through a critical exploration of the essential teachings and cultural texts. In addition to learning

# SOCIAL STUDIES

The West Allegheny Social Studies Curriculum offers students a variety of opportunities for learning. History, culture, social science, economics, geography, law, and government are presented across the curriculum.

about these religions, the student will be exposed to methods used to study and compare religions. The student needs no prior experience in the study of religion. Through this course, students will survey and discuss the nature of religion and the many different religions of Africa, America, China and Japan. We will focus on the religions of Hinduism, Buddhism, Judaism, Christianity and Islam. Students will be required to demonstrate understanding through essays, public speaking, projects, group work, quizzes, tests, debates, and Socratic seminars.

*Grade level: 11, 12*

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## HOLOCAUST AND GENOCIDE STUDIES

0247 .50 CREDIT



The Holocaust and Genocide Studies course examines the systematic, bureaucratic, state-sponsored persecution and murder of six million Jews and five million non-Jews by the Nazi regime and its collaborators between 1933 and 1945. Students will focus on the political, social and economic circumstances that contributed to this genocide as they evaluate the roles of perpetrators, collaborators, bystanders, victims and others during this particular genocide. In addition to the European Holocaust, the course will examine the larger concept of genocide as it relates to other world events. This course of study will be further enhanced through various literary resources, group discussions, writing assignments and projects.

*Grade level: 11, 12*

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## CURRENT AFFAIRS

0249 .50 CREDIT



Students will be studying up-to-the minute events of the nation and the world as they happen. Multi-media will be used on a regular basis; newspapers, social media, magazines, videotaping, etc. This semester course will allow the student to experience happenings in our world in a well-rounded way.

*Grade level: 11, 12*

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## SOCIOLOGY OF SPORTS

0250 .50 CREDIT



An examination of sport as a significant aspect of modern culture and a major institution of modern society. Among the topics that will be analyzed include: gender and sports, sports as an economic enterprise, sports in high school and college, and the issues of social class and race in sports.

This course explores the ways in which sports are entangled in social, cultural, political, and economic forces operating at many different levels, from the social levels to the global level.

On one hand the course deals with the multiple ways in which individuals are involved in sports organizations and activities, including our participation in sport for purposes of recreation and leisure, personal fulfillment, participation as spectators of sports and consumers of sports as entertainment commodities.

# SOCIAL STUDIES

The West Allegheny Social Studies Curriculum offers students a variety of opportunities for learning. History, culture, social science, economics, geography, law, and government are presented across the curriculum.

On the other hand, the course deals with the organization of sports and sports organizations as particular representations of social organizations in general that can be analyzed in terms of goals, norms, and social roles. The course will also deal with the political economy of big time sports, including major university and professional sports.

*Grade level: 11, 12*

the negative stereotypes that still surround Native American cultures. The course also sheds light on the important contributions that Native Americans have made to art and spirituality. And it demonstrates how both Native American traditions and the fight for Native American civil rights have shaped the history and social fabric of the United States.

*Grade level: 11, 12*

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## AFRICAN AMERICAN STUDIES (WAVA ONLY)

0251 .50 CREDIT



Throughout US history, African Americans have faced great adversity in the form of enslavement and institutional racism. They fought for their freedom and worked to right a broken system, but their struggle continues today. This course studies the treatment of enslaved Africans as they were brought to America, the prejudices African Americans have experienced, and their important role in the social, political, and economic development of the United States.

*Grade level: 11, 12*

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## WOMEN'S STUDIES (WAVA ONLY)

0253 .50 CREDIT



Women's Studies is a course that is designed to help you understand the concepts of gender and gender roles, and the social discrimination that exists on the basis of gender. You will learn about the history of feminism and feminist theories. You will also learn about the social and political movements that raised awareness about equal rights for women and other marginalized groups. You will explore the role of media in reinforcing gender stereotypes. This course also looks at the difference in the Western and non-

Western ideas of gender, feminism, and activism. The course ends with a discussion on the possible challenges in the path toward creating an equal society.

*Grade level: 11, 12*

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## NATIVE AMERICAN STUDIES: CONTEMPORARY PERSPECTIVES (WAVA ONLY)

0252 .50 CREDIT



This course examines the social, economic, religious, and political issues that Native Americans face in today's world. It looks at a number of Native American professionals and their efforts to eradicate

# U.S. MARINE CORPS JUNIOR RESERVE OFFICER TRAINING CORPS

The U.S. Marine Corps Junior Reserve Officer Training Corps prepares students for leadership roles while making them aware of their rights, responsibilities, and privileges as Americans. The mission of JROTC is to motivate young people to be better citizens.

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## BEGINNING U.S. MARINE CORPS JUNIOR ROTC

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0261 1 CREDIT



The purpose of this course is to develop leadership and build character, create informed and patriotic citizens, and develop responsible young adults who are physically, mentally, and morally fit. Emphasis is placed on basic leadership techniques, citizenship, self-discipline, Marine Corps and U.S. History, close order drill, marksmanship, first aid, physical training, Marine Corps uniform regulations, hygiene, substance abuse prevention, and organizational skills. The objective of JROTC is to build self-confidence and to promote graduation from high school.

*Grade level: 9, 10, 11, 12*

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## INTERMEDIATE U.S. MARINE CORPS JUNIOR ROTC

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0262 1 CREDIT



The purpose of the intermediate level of JROTC is to develop leadership and build character, create informed and patriotic citizens, and develop responsible young adults who are physically, mentally, and morally fit. Emphasis is placed on reviewing the tenets of JROTC while expanding the concentration on individual leadership techniques and organizational skills. Cadets will progress with regard to Drill and Ceremony and be capable of leading a squad-sized unit. Cadets will compete for leadership

positions and be eligible for promotion to the staff noncommissioned officer grade. Outstanding cadets completing Intermediate JROTC will be considered for promotion to the officer ranks and be selected for senior leadership billets for the following school year.

***Prerequisite:** A final grade of "C" or better in prior JROTC, or written permission from the JROTC staff.*

***Grade level:** 10, 11, 12*

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## ADVANCED U.S. MARINE CORPS JUNIOR ROTC

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0263 1 CREDIT



The purpose of Advanced JROTC is to reinforce lessons learned from previous leadership levels while instructing cadets on advanced leadership techniques at the non-commissioned officer level, professional communications, military theory, techniques of military instruction, and historical self-study. A strong emphasis is placed on practical application, leadership of junior cadets, and demonstrated mastery of all Marine Corps course requirements.

***Prerequisite:** A final grade of "B" or better for Intermediate JROTC, or written permission from the JROTC staff.*

***Grade level:** 12*

❖ **This course may count toward a student's fourth social studies credit.**

# VISUAL AND MEDIA ARTS

Everywhere you go you are surrounded by images and words. Together they make up the foundation of visual and media arts. Visual media cover every medium that uses sight as a primary communication method. Print media refer to static messages (images and words). All print media are visual, but all visual media are not necessarily print. Visual art classes will integrate the study of relevant art history and appreciation materials within the framework of the specific media studied.

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## ART I

0740 1 CREDIT

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This course is designed as an introductory to senior high art. Students will be guided toward developing a visual awareness of his or her environment through drawing and design. A variety of media will be used to acquaint the student with fundamental techniques, which will focus on foundational skill building and encourage individual expression. Two pieces of work are required for display in the annual art show.

**Grade level: 9, 10, 11, 12**

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## ART III

0742 1 CREDIT

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In this course, emphasis will be placed on effective selection and use of compositional design elements. Besides art production, assignments will reference to art history, art criticism, and aesthetics. Focus will be on development of the student's individual style, and a proficiency of both 2-D and 3-D media and techniques. Four pieces of work are required for display in the annual art show.

**Prerequisites:** Final "C" grade or higher in Art I and Art II

**Grade level: 11, 12**

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## ART II

0741 1 CREDIT

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On a more advanced level, students will continue to develop a mastery of skills and techniques through a variety of materials. Emphasis will be placed on understanding and application of compositional elements and principles of design. Assignments will include exploration of artists and art history. Three pieces of work are required for display at the annual art show.

**Prerequisite:** Final "C" grade or higher in Art I

**Grade level: 10, 11, 12**

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## HONORS EC ART IV

0743 1 CREDIT

3 CCAC CREDITS POSSIBLE THROUGH ECIHSA

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ART 109 – DRAWING 1 (3CR)

This course is designed for the advanced art student who wishes to pursue his/her continued development as an artist, with plans to specialize in a creative field upon graduation. Emphasis will be placed on more complex creative problem solving, individual projects, and open ended prompts. A minimum of six new, thematic pieces of art are required for exhibit within their installations at the annual art show. \*Students may earn a weighted grade on the 4.5 scale for this course.

**Prerequisite:** Final "C" grade or higher in Art III

**Grade level: 12**

# VISUAL AND MEDIA ARTS

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## AP STUDIO ART: DRAWING

0744 1 CREDIT

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This course will enable the student to show an understanding of the language of art through the execution of an advanced two-dimensional drawing class. The student will have summer assignments which will include trips to museums, artist research, found object drawings, still life construction, drawing, journaling and maintenance of their sketchbook. In the classroom, the student will show a high level of knowledge of drawing materials such as, but not limited to, pencil, chalk pastel, oil paint, watercolor, pen and ink, etc. During the student's time in the classroom, the ultimate goal will be to meet the requirements for the AP Portfolio submission. The AP Portfolio submission takes the place of the written AP Exam at the end of the school year. The Portfolio will consist of 29 pieces made up of 24 digital submissions along with 5 physical works.

\*Students may earn a weighted grade on the 5.0 scale for this course.

**Prerequisites:** An "A" average in Art I, Art II and Art III, Enrollment in Art IV, Teacher recommendation

**Grade level: 12**

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## MEDIA ARTS

0748 1 CREDIT

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In this course, first year students will develop skills in four aspects of Media Arts: Photography, Video Production, Journalism and Design. Advanced

students will choose one to two areas in which to specialize.

**Photography** students will learn how to properly use a DSLR camera and discover the differences between taking pictures and shooting photography. Students will focus on camera operation, light manipulation, exposure and composition.

**Video Production** students will learn how to properly use solid state cameras, how to operate a professional studio and control room, and explore the basics of editing. Students will focus on single and multiple camera operation, project creation in preproduction, production and post production stages, and how to edit using Adobe Premier.

**Journalism** students will learn the ways in constructing electronic news. They will learn how to properly write articles, interview individuals, create a feature and story series. Students will focus on the APA writing style, proper interviewing techniques, article construction and article layouts. The students will write and edit the student newspaper and website, the West Allegheny Legacy

**Design** students will learn how to properly use formatting techniques and create multiple forms of digital media. Students will focus on imaging techniques, filter tools, and design aspects that use Adobe Photoshop in direct relation to Photography.

This class is a project based class which focuses on "real world" aspects of Media Arts. The majority of grading will be based on project completion and deadlines. The students will be responsible for the operation and handling of equipment as well as completing assignments and projects on specific deadlines.

**Grade level: 9, 10, 11, 12**

# VISUAL AND MEDIA ARTS

Everywhere you go you are surrounded by images and words. Together they make up the foundation of visual and media arts. Visual media cover every medium that uses sight as a primary communication method. Print media refer to static messages (images and words). All print media are visual, but all visual media are not necessarily print. Visual art classes will integrate the study of relevant art history and appreciation materials within the framework of the specific media studied.

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## SOCIAL MEDIA AND BROADCASTING

0749 1 CREDIT



Students enrolled in Social Media & Broadcasting will develop skills in four aspects of Social Media and Broadcasting: Social Media, Broadcast, Advertising and Media Relations.

**Social Media** students will learn ethics, construction and formatting of specific social media platforms. Students will focus on platforms such as Twitter, Facebook and Snapchat. With the ever changing world of social media, the class will change with the most current formats.

**Broadcasting** students will learn how to work as both the talent and the crew in the daily production of the WATV announcements. Students will be trained in studio set up, control room equipment and teleprompter operation. Students will focus on broadcast project creation in preproduction, production and post-production stages, streaming capabilities and quick edits in Adobe Premier.

**Advertising** students will learn small production aspects of advertising. Students will be trained in simple camera techniques, advertising campaigns and quick editing techniques. Students will focus on small project creation in preproduction, production and post-production stages, audience and basic editing using Adobe Premier.

**Media Relations** students will learn how to properly read an audience and create projects based on what the customer needs and wants. Students will focus on communication skills and presentation aspects in media and advertising.

This class is a project based class which focuses on “real world” aspects. All grading will be based on

project completion and deadlines. The students will be responsible for the operation, programming and running the Scoreboard, as well as completing assignments and projects. They will also be responsible for the production, streaming and delivery of the WATV daily announcements as well as completing advertising projects on specific deadlines.

**Grade level: 9, 10, 11, 12**

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## YEARBOOK

0611 1 CREDIT



In this course, students will develop yearbook journalism and design skills. Their primary job is to create The Alleghenian, the West Allegheny High School Yearbook. The fundamentals of yearbook journalism include coverage of the year’s events, ethics, writing sports copy, writing creative captions, creating sidebars, digital photography, and proof copy. Integral to yearbook journalism is developing and carrying out a theme, both verbally and graphically, that suits West Allegheny High School. Those enrolled will be expected to meet deadlines, work in a business and workshop atmosphere, and be responsible for generating and budgeting revenue to ensure solvent finances. Higher level students will be responsible for holding down an editor position, making decisions to keep the yearbook on track, completing final proofs, and/or helping staff with their responsibilities.

**Grade level: 9, 10, 11, 12**

# WORLD LANGUAGES

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## SPANISH I

0500 1 CREDIT



Spanish I introduces students to the Spanish language and culture. Students will be actively involved in learning to express themselves in meaningful conversation. They will develop communication skills through speaking, listening, reading, writing activities, and review games. Activities such as holiday celebrations, crafts, and field trips will help the students experience and enjoy the language and culture.

**Prerequisite:** It is strongly recommended that students have at least a "C" average in English.

**Grade level:** 9, 10, 11, 12

## SPANISH II

0501 1 CREDIT



Spanish II continues to develop insight into the Spanish language and culture. Students will work on improving communication skills. Emphasis will continue to be placed on improving speaking, reading, writing and listening skills. Students will be able to enjoy celebrations, crafts and field trips helping them to expand their knowledge of the language and culture.

**Prerequisite:** A "C" or higher in Spanish I. It is strongly recommended that students have at least a "C" average in English.

**Grade level:** 9, 10, 11, 12

## SPANISH III

0502 1 CREDIT



Spanish III continues to develop Spanish communication skills. Students will work on their speaking, listening, reading and writing skills. Students will also have the opportunity to participate in celebrations, crafts and field trips related to the Spanish language and culture.

**Prerequisite:** A "C" or higher in Spanish II. It is strongly recommended that students have at least a "C" average in English.

**Grade level:** 10, 11, 12

❖ This course may count toward a student's fourth social studies credit.

## HONORS EC SPANISH IV

0503 1 CREDIT

3 CCAC CREDITS POSSIBLE THROUGH ECIHSA



SPA 101 – ELEMENTARY SPANISH 1 (3CR)

Spanish IV continues to develop the skills of speaking, listening, reading and writing in Spanish. Students are encouraged to use more advanced structures in their communication. Students will deepen their knowledge of the Spanish language and culture in preparation for the AP level. Additionally, students will have the opportunity to enjoy celebrations, crafts and field trips. \*Students may earn a weighted grade on the 4.5 scale for this course.

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**Prerequisite:** A "B" or higher in Spanish III. It is strongly recommended that students have at least a "C" average in English.

**Grade level:** 11, 12

❖ This course may count toward a student's fourth social studies credit.

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## AP SPANISH LANGUAGE & CULTURE

0504 1 CREDIT

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Students will be expected to demonstrate a higher degree of Spanish proficiency in speaking, listening, reading and writing. To promote these language skills, there will be extensive reading and writing assignments from a variety of authentic texts. Students will engage in advanced conversation and complex listening activities on a variety of themes. The purpose of this course is to help students prepare for the AP Spanish Language & Culture exam. As this is an AP course, there will be a vigorous workload both inside and outside of class. \*Students may earn a weighted grade on the 5.0 scale for this course.

**Prerequisite:** 80% or higher in Spanish IV or teacher recommendation

**Grade level:** 12

**NOTE:** This course has a summer reading and writing requirement; students should collect the materials before they leave school for the summer.

❖ This course may count toward a student's fourth social studies credit.

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## FRENCH I (WAVA ONLY)

V510 1 CREDIT

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French Level I is intended for students with no or minimal previous experience with the French language. The course emphasizes communicative proficiency, with special attention to the development of oral and listening skills, self-expression, and cultural insights. Activities are varied and interactive and are focused on acquiring all four language competencies (listening, speaking, reading, and writing) simultaneously-always in the context of a cultural narrative. Each lesson begins with a rapid flow of authentic French presented in realistic, everyday circumstances, supported by video presentations and a comprehensive workbook. Free-form classroom interactions are balanced with structured grammar and vocabulary drills.

**Prerequisite:** It is strongly recommended that students have at least a "C" average in English.

**Grade level:** 9, 10, 11, 12

# WORLD LANGUAGES

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## FRENCH II (WAVA ONLY)

V511 1 CREDIT



Students enrolled in French II continue their study of French by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar.

***Prerequisite:** "C" or higher in French I. It is strongly recommended that students have at least a "C" average in English.*

**Grade level: 10, 11, 12**

range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, and take frequent assessments where their language progression can be monitored. This course is conducted almost entirely in French.

***Prerequisite:** "C" or higher in French II. It is strongly recommended that students have at least a "C" average in English.*

**Grade level: 11, 12**

❖ **This course may count toward a student's fourth social studies credit.**

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## FRENCH IV (WAVA ONLY)

0513 1 CREDIT



Students learn to speak with more fluency, practicing and expanding upon previously learned grammar concepts such as past time (including imperfect tense and plus perfect), future time, and pronouns, as well as learn more advanced verb tenses. Course participants will read independently at a more advanced level, and journal writing takes on more importance. Hands on projects include writing a children's book using the web-based Storybird app. Students continue to participate in cultural experiences such as cheese tasting, French Christmas traditions, Mardi Gras, trying French pastries and cheese, and French cuisine day. Field trips are taken to a French Restaurant and to the Gateway Clipper French night, and to various

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## FRENCH III (WAVA ONLY)

V512 1 CREDIT



French III engages students in more advanced language communication. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide

# WORLD LANGUAGES

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available performing arts events such as opera, musicals, and dance shows. \*Students may earn a weighted grade on the 4.5 scale for this course.

**Prerequisite:** A "B" or higher in French III. It is strongly recommended that students have at least a "C" average in English.

**Grade level:** 11, 12

❖ This course may count toward a student's fourth social studies credit.

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## AP FRENCH LANGUAGE & CULTURE (WAVA ONLY) 0514 1 CREDIT

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Using select themes and sub-themes and addressing a variety of genres, students will interpret advanced level authentic texts both aural and oral. Students will also study and review advanced grammar as well as speak using the interpersonal, interpretive, and presentational modes of communication. In writing, students will develop their persuasive writing skills in preparation for the AP exam. \*Students may earn a weighted grade on the 5.0 scale for this course.

**Prerequisite:** 80% or higher in French IV or teacher recommendation

**Grade level:** 12

**NOTE:** This course has a summer reading and writing requirement; students should collect the materials before they leave school for the summer.

❖ This course may count toward a student's fourth social studies credit.

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## GERMAN I 0520 1 CREDIT

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German I will introduce the basic listening, speaking, reading, and writing skills as well as many aspects of the German culture. Students will participate in a variety of both traditional and non-traditional activities including partner work, role-playing, and singing. At the end of the course, students will be able to survive in Germany (i.e. get directions/food, go shopping, etc.). Culture activities include an Oktoberfest and field trips.

**Prerequisite:** It is strongly recommended that students have at least a "C" average in English.

**Grade level:** 9, 10, 11, 12

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## GERMAN II 0521 1 CREDIT

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Students in German II will continue to focus on all aspects of language. Emphasis will be on more advanced writing and speaking skills. We will continue to improve conversation and listening skills through partner work and other classroom activities. There is a lot more student participation through varied activities including skits, presentations, and learning games. Students will continue to participate in cultural activities such as Oktoberfest and field trips.

# WORLD LANGUAGES

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**Prerequisite:** A "C" or higher in German I. It is strongly recommended that students have at least a "C" average in English.

**Grade level:** 9, 10, 11, 12

class on writing and reading skills. Students will explore contemporary German culture in-depth, as well as the historical role of Germany during WWII and the Holocaust. \*Students may earn a weighted grade on the 4.5 scale for this course.

**Prerequisite:** A "B" or higher in German III. It is strongly recommended that students have at least a "C" average in English.

**Grade level:** 11, 12

❖ **This course may count toward a student's fourth social studies credit.**

## AP GERMAN LANGUAGE & CULTURE

**0524 1 CREDIT**



This course is designed to prepare students to take the German Language AP examination and to continue the development of oral and written skills. In a thematic approach to language learning, students will become more proficient in the three modes of communication: interpersonal (both formal and informal), interpretive and presentational. Students will learn to read newspaper and magazine articles, contemporary fiction and non-technical writings (without the use of a dictionary/online aids), and will explore cultural trends and issues. Students participate in Oktoberfest all day by keeping things organized and leading the younger students in songs and dances. Students practice their language skills both in the context of preparation for the AP exam and in real life situations. Students in the AP level course must demonstrate higher levels of proficiency in all

## GERMAN III

**0522 1 CREDIT**



German III further develops language skills toward becoming a lifetime language learner. Students will be able to communicate orally and in writing on a variety of topics, including foods, vacations, and health. Skits, role-plays, projects, and reports encourage participation. German III is recommended to satisfy many college requirements.

**Prerequisite:** A "C" or higher in German II. It is strongly recommended that students have at least a "C" average in English.

**Grade level:** 10, 11, 12

❖ **This course may count toward a student's fourth social studies credit.**

## HONOR EC GERMAN IV

**0523 1 CREDIT**

**3 CCAC CREDITS POSSIBLE THROUGH ECIHSA**



GER 101 – ELEMENTARY GERMAN 1 (3CR)

German IV is a comprehensive in-depth language and culture course. Students are required to combine skills and concepts learned in all previous levels. In-class time will be spent on increasing listening and speaking proficiency work with more time outside of

# WORLD LANGUAGES

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areas of skills development. \*Students may earn a weighted grade on the 5.0 scale for this course.

*Prerequisite:* 80% or higher in German IV or teacher recommendation

**Grade level:** 12

**NOTE:** This course has a summer reading and writing requirement; students should collect the materials before they leave school for the summer.

❖ This course may count toward a student's fourth social studies credit.

## AMERICAN SIGN LANGUAGE I 0525 1 CREDIT



This, literally, hands-on class is an introduction to American Sign Language. In this class, students will learn approximately 1,500 signs and how to use them in basic conversation. Students will learn how to fingerspell clearly as well as learn how to read fingerspelling; with the focus being on accuracy as opposed to speed. There will be a strong emphasis on the use of Non-manual markers as ASL is a very expressive (bodily and facially) language. One of the most important aspects of learning ASL is also learning about Deaf Culture. Students will delve into the history of Deaf Culture and Sign Language. Students will obtain a basic knowledge of ASL grammar and how to formulate a sentence using the grammatical structure. Students will begin conversing in Sign Language at the basic level using Pidgin (a combination of ASL and English).

*Prerequisite:* It is strongly recommended that students have at least a "C" average in English.

**Grade level:** 9, 10, 11, 12

## AMERICAN SIGN LANGUAGE II 0526 1 CREDIT



Students will build on their previous knowledge from ASL I. This class will build upon ASL grammar and will require more conversing in ASL – one on one and in group situations. Students will be expected to use Sign Language as a means of conversing with other students and the instructor in class. Students will review signs learned in ASL I, but through conversation. More emphasis will be placed on the grammatical structure of ASL and signing more clearly and fluently. There will be opportunity for students to use their skills to interpret in various settings. Students will continue fingerspelling and reading fingerspelling with more speed and accuracy. Students will explore Deaf Culture on a deeper level.

*Prerequisite:* A "C" or higher in American Sign Language I. It is strongly recommended that students have at least a "C" average in English.

**Grade level:** 10, 11, 12

# WORLD LANGUAGES

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## MANDARIN CHINESE I (WAVA ONLY)

V530 1 CREDIT

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Mandarin Chinese I focus' on four key areas of study: listening, speaking, reading and writing. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, and participate in simple conversations and responding appropriately to basic conversational prompts. Both Chinese characters and pinyin are presented together throughout the course and specific character practices are learned.

***Prerequisite:** Students must have a minimum of at least a "B" average in English OR counselor approval.*

**Grade level:** 9, 10, 11, 12

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## MANDARIN CHINESE II (WAVA ONLY)

V531 1 CREDIT

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Mandarin Chinese II continues to develop insight into the Chinese language and culture. Students not only begin to comprehend listening and reading passages more fully, but they also are able to express themselves more meaningfully in both speaking and writing. Character recognition and practice are a key focus of the course. Pinyin is still presented with characters throughout to aid in listening and reading comprehension.

***Prerequisite:** "C" or higher in Mandarin Chinese I. It is strongly recommended that students have at least a "B" average in English.*

**Grade level:** 10, 11, 12

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## MANDARIN CHINESE III (WAVA ONLY)

V532 1 CREDIT

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Chinese III engages students in more advanced language communication. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning. Character recognition and practice continue to be a key focus of the course. Pinyin is still presented with characters throughout to aid in listening and reading comprehension.

***Prerequisite:** "C" or higher in Mandarin Chinese II. It is strongly recommended that students have at least a "B" average in English.*

**Grade level:** 11, 12

❖ **This course may count toward a student's fourth social studies credit.**

# PARKWAY WEST AREA CAREER & TECHNOLOGY CENTER

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## AUTO BODY REPAIR

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2501



The Auto Body Repair program is certified by the National Automotive Technology Education Foundation (NATEF) and provides instruction in the most current techniques for repair and replacement of damaged automobile parts. Students learn to repair collision damage and to replace quarter panels, door skins, and fenders. The curriculum also includes painting, MIG welding, collision repair, frame straightening, and damage analysis. Students gain experience in mixing and tinting paint, custom painting, computerized estimating, and auto detailing. Practical experience is also provided through a full-service auto body repair shop. Students have the opportunity to earn **PPG Blue Level Paint** and **I-Car MIG Welding** certifications. They are also eligible to earn **I-Car Points**.

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## AUTOMOTIVE TECHNOLOGY

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2502



Automotive Technology is certified by the National Automotive Technology Education Foundation (NATEF) and affiliated with all of the major automotive manufacturers through Automotive Youth Educational Systems (AYES). Students prepare to take the Pennsylvania State Inspection License examination. Students learn basic vehicle maintenance, repair, and replacement of drive trains, brake systems, chassis components, and fuel and electrical systems. Special emphasis is placed on troubleshooting and engine performance via the use of state-of-the-art electronic diagnostic equipment. Practical experience is also provided in the auto repair shop. Under the Automotive Youth Educational Systems (AYES) apprenticeship program, students may qualify to become an apprentice working under mentor technicians. Students can earn certifications from **AYES**, the **National Institute for Automotive Service Excellence (ASE)**, and the **Coordinating Committee for Automotive Repair (CCAR)**.

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## CONSTRUCTION TECHNOLOGY CLUSTER

2503



First-year students will select one of the five programs in the Construction Technology program in which they have the most interest and spend one quarter in that program. For the other three quarters students will be randomly assigned to three of the additional four courses offered in the Construction Technology Cluster. The courses offered are *Building Construction Technology*; *Electrical Systems Technology*; *Heating, Ventilation, Air-Conditioning and Refrigeration*; *Masonry*; and *Welding Technology*. Upon successful completion of the one-year rotation, students will be given the option to experience the fifth course before choosing one area of concentration for the remainder of their enrollment at PWCTC. The five programs consist of the following:

- **2504 - BUILDING CONSTRUCTION TECHNOLOGY:**



A student in the Building Construction Trades program will apply technical

knowledge and skills to layout, fabricate, erect, install and repair structures and fixtures using hand and power tools, scaffolding, and specialty tools used in the construction trade. This program includes instruction in common systems of framing, construction materials, estimating, blueprint reading and finish carpentry techniques. Students will be given the opportunity to earn a **10-hour Occupational Safety and Health Administration (OSHA) Construction** card.

- **2505 - ELECTRICAL SYSTEMS TECHNOLOGY:**



Electrical Systems Technology teaches students the integral components of the electrical industry for entry level employment in residential, commercial, and/or light industrial locations. The basis of instruction is in the layout, assembly, installation, wiring, maintenance, and trouble-shooting of electrical systems. Understanding programmable logistical controls (PLS's) and how transformers operate are also covered.

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- **2506 - HEATING, VENTILATION, AIR-CONDITIONING AND REFRIGERATION (HVAC/R):**



The Heating, Ventilation, Air-Conditioning and Refrigeration program, which has been newly renovated with state-of-the-industry equipment, provides instruction in basic and advanced electrical theory, troubleshooting, and repair of residential and commercial heating, air-conditioning, and refrigeration systems. Students will be given the opportunity to earn a **10-hour Occupational Safety and Health Administration (OSHA) Construction** card.

- **2508 - WELDING TECHNOLOGY:**



The Welding program covers several types of welding processes by which metal may be bent, cut, or welded together, including oxy-fuel, shielded metal arc, gas metal arc, gas tungsten arc, flux core welding, carbon arc, plasma cutting, and oxy-fuel brazing. Students will learn the importance of industry

safety, measuring instruments, hand tools, grinders, metallurgy, blueprint reading, electrical principles, layout/design, and fabrication. They will also learn how to prepare materials lists for cost estimates. Students have the opportunity to earn several **American Welding Society (AWS)** certifications.

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## COSMETOLOGY

2509

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The Cosmetology program prepares students to perform technical services including all aspects of hair, skin/nail beautification, and personal maintenance. These skills are supported and reinforced with theoretical background including sanitation, chemistry, anatomy and physiology, as well as structure, function, and disorders of the hair, skin, nails, and scalp. The Cosmetology program helps students develop into well-rounded professionals who practice real-world services in Parkway's salon, which is open to the public two days a week. Utilizing an integrated approach to teaching and learning, students learn about interpersonal relations, professional attitude, and career fundamentals along with technical knowledge

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and skills. Techniques and abilities are practiced and tested on mannequins, classmates, and the general public. Students who are able to attend this program for three years will have the opportunity to earn 1,250 hours of the state-regulated course requirements to take the **state licensing exam to be a licensed cosmetologist**, which encompasses providing services to the public for hair, skin, and nails.

Students who are able to take one or two years of instruction in the Cosmetology program may choose from the following specialized license fields:

- **NAIL TECHNICIAN LICENSE:** This license requires 200 hours of instruction and can be completed within one year. An individual holding a nail technician license is qualified to perform nail technology services only.
- **COSMETOLOGY TEACHER LICENSE:** Prerequisite for this course is having successfully passed at least one of the above licensures. This license requires 500 hours of required studies and can be completed within one year. An individual holding a teacher's license is qualified to perform the functions of a teacher in whatever specialized area the individual has obtained licensure.

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## CULINARY ARTS

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2510



The Culinary Arts program provides practical instruction in the preparation of banquet, buffet, and a la carte styles of food preparation. Practical experience is provided through the operation and management of an in-house, full-service restaurant. Students also provide goods and services for Parkway's food store, where pastries and select meats are sold. Students learn to design cakes, sculpt ice, and prepare many different types of cuisine. First-year students spend one school year in Culinary Arts Level I. Second and third-year students will advance into Culinary Arts Levels II and III. Senior students who have completed at least two years of Culinary Arts will have the opportunity to earn both the **National Restaurant Association's ServSafe** certification and the **American Culinary Federation** certification.

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## DIESEL TECHNOLOGY

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2512



The Diesel Technology program provides instruction on every aspect of today's transportation, construction, and manufacturing industries. In Diesel Technology, students will learn about the operation, maintenance, and overhaul of diesel powered equipment. Diesel engines are found in military vehicles, trucks, trains, buses, construction and agricultural equipment. As the diesel equipment industry expands, the demand for mechanics and technicians to repair and maintain diesel equipment will continue to grow.

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## DIGITAL MULTIMEDIA

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2513



The Digital Multimedia program provides instruction in basic graphic design using computers and design software such as Adobe Illustrator, Acrobat, Photoshop, InDesign, and Dreamweaver. Students learn entry-level skills for desktop publishing, web design, digital photography, and graphic animation utilizing Flash. Several software applications are used to design, edit, and publish documents,

images, and multimedia presentations in print and electronic form. From designing a poster to developing a website, students will have the opportunity to apply their creativity to projects that resemble those within industry. Students can earn the **Adobe Certified Associate in Visual Communication** and the **Adobe Certified Associate in Web Communication** certifications via Certiport.

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## HEALTH ASSISTANT

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2511



Students in the Health Assistant program have the opportunity to participate in a wide-range of real-world clinical and job shadowing experiences at many different local healthcare providers. Clinical experiences may include: child care, long-term care, emergency nursing, recovery room nursing, radiology, medical records, operating room observation, pharmacy, physical/occupational therapy, and/or lab technician. Students will have the opportunity to earn and complete the American Heart Association **"CPR for Health Care Providers"** certification and the following certifications in relation to the Health Care Industry:

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- **Pennsylvania State Nurse Aid Registry (C.N.A.):** For first and second year students, instruction begins with anatomy, physiology, and medical terminology. Special attention is given to medical office examinations, treatment, and patient care.

- **Personal Care Home Direct Care Staff:** For first and second year students, this component offers a competency test from the PA Department of Public Welfare, and it prepares students to work in a personal care home as a direct care giver.

- **Pharmacy Technician Certification (CPhT):** After successful completion of this one-year, 12<sup>th</sup> grade course, students will assist the pharmacist in a variety of tasks. Module and lab work includes: controlled substances, laws and regulations, drug classifications, frequently prescribed medications, prescription information, preparing/dispensing prescriptions, calculations, sterile products, unit dose, and repackaging.

- **Phlebotomy Technician Certification (CPT):** This is a one semester certification course directed toward 12<sup>th</sup> grade students. Module and lab work includes: anatomy and physiology,

infection control, safety and compliance, patient preparation, collection techniques, and processing of collected samples. Students must demonstrate a minimum of 30 successful venipunctures and 10 successful capillary punctures.

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## INFORMATION TECHNOLOGY ESSENTIALS

2514

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The Information Technology Essentials program prepares students who are interested in networking and computer diagnostics. It begins with Cisco IT Essentials, PC hardware and software, and network operating systems. Students initially prepare for CompTIA A+ and CompTIA Server+ certifications and then, through the Cisco CCNA Discovery course, students learn networking concepts based on typical networks that one might encounter in a home or small office, or in larger, more complex enterprise models. Finally, students can prepare for the **Cisco CCENT** and **Cisco CCNA** certifications.

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## PUBLIC SAFETY TECHNOLOGY

2515



The Public Safety Technology program focuses on careers relating to emergency medical services, fire fighting, law enforcement, and emergency management services. In order to successfully complete the program, students must meet minimum proficiency levels in all public safety areas. Instruction is provided in disaster situations/management, hazardous materials handling, pre-hospital medical care, map reading, fire fighting, the judicial system, and emergency dispatching. Students have the opportunity to earn the following certifications: **Emergency Medical Technician-Basic (EMT-B)**, **Basic Vehicle Rescue (BVR)**, **Emergency Vehicle Operators Course (EVOC)**, **Hazardous Materials Recognition and Identification (Haz-Mat R&I)**, and multiple Federal Emergency Management Agency certifications.

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## SPORTS MEDICINE AND REHABILITATION THERAPY TECHNOLOGY (SMARTT)

2516



The Sports Medicine & Rehabilitation Therapy Technology program prepares students to work in the field of physical therapy, occupational therapy, and sports medicine. Students will develop skills in prevention, diagnosis, differential diagnosis, assessment, prognosis, and the rehabilitation of injuries and other health conditions. Students will learn the principles of developing a plan of care including: evaluation, interventions (exercise, manual therapy, modalities, and neuro re-education), assessment, goal setting, and discharge. Students will also learn how to develop a proper diet for healthy individuals and tailor it for special populations through a comprehensive understanding of nutrition. Upon successful completion, students should be able to assist in the development and implementation of a plan of care for healthy and special populations.

Careers available directly out of the program could include: Personal Trainer, Coach, Physical Therapy Aid. This program also provides a solid educational base on which to build a post-secondary degree or advanced certification. Careers available with additional post-secondary schooling include: Personal Trainer, Athletic Trainer, Physical Therapist, Physical Therapist Assistant, Occupational Therapist, Certified Occupational Therapist Assistant, Strength and Conditioning Coach, Medical and Exercise Physiology Researcher, Sports Psychologist, Dietician, and Exercise Physiologist.

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## VETERINARY TECHNOLOGY

2517

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In the Veterinary Technology program, students will learn to keep medical records, schedule, offer client education, practice laboratory procedures, assist with nursing duties, prepare for surgeries, and assist during a routine exam. Students will also gain a solid educational base on which to build a post-secondary degree. This program may lead to additional career pathways such as Animal Trainer, Animal Breeders, Non-Farm Animal Caretakers, Laboratory Animal Caretakers, Groomers, Animal Control Worker, Veterinary Technician, Veterinary Technologist, and Veterinarian. Students may earn the following certifications: **Purina Certified Weight Coach; Pet Tech First Aid and CPR.**

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## APPLIED ACADEMIC COURSES

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In the event of a course conflict or need for specific credits at the home school only, West Allegheny may allow a student to take an applied academic course at PWACTC. Students should contact their counselor for more information

# SPECIAL OPTIONS

Students interested in any of these options should discuss the option with their counselor to determine if the option is feasible and appropriate for the student's future plans.

## COLLEGE ADMISSION EXAM PREPARATION

The following course offerings are not offered as part of the traditional 9-period school day. They are offered through the West Allegheny Virtual Academy and have different registration periods throughout the year. For more information, please see your school counselor or Mrs. Baldanzi.

### ACT ENGLISH PREP (WAVA ONLY) NO CREDIT

The ACT English course was developed by aligning topics with content assessed on the ACT English Test. Each unit aligns to one or more topics within the ACT English Test. This course focuses on rhetorical skills along with English language usage and mechanics. In this course, you will find a variety of lessons and activities to improve your knowledge of these strategies. and skills in these areas.

### ACT MATHEMATICS PREP (WAVA ONLY) NO CREDIT

The ACT Mathematics course was developed by aligning topics with content assessed on the ACT Test. Each unit aligns to one or more topics within the test. This course focuses on the study of algebraic problem-solving skills and concepts related to geometry, probability, and statistics. In this course, you will find a variety of lessons and activities to improve your knowledge and skills in these areas.

### ACT READING PREP (WAVA ONLY) NO CREDIT

The ACT Reading course was developed by aligning topics with content assessed on the ACT Reading Test. Each unit aligns to one or more topics within the test. This course focuses on the study of different

reading strategies for reading selections from social studies, natural sciences, literary narratives, and humanities. In this course, you will find a variety of lessons and activities to improve your knowledge of these strategies.

### SAT MATHEMATICS PREP (WAVA ONLY)

**NO CREDIT**

The SAT Mathematics course was developed by aligning content with the strands and topics that are assessed on the SAT. This course focuses on the study of algebraic problem-solving skills and concepts related to geometry, probability, and statistics. In this course, you'll find a variety of lessons and activities to improve your knowledge and skills in these areas.

### SAT READING PREP (WAVA ONLY) NO CREDIT

The SAT Reading course was developed by aligning content with the strands and topics that are assessed on the SAT. This course focuses on the study of different reading strategies and vocabulary skills for fictional, informational, and persuasive texts. In this course, you will find a variety of lessons and activities to enhance your knowledge of these strategies.

### SAT WRITING PREP (WAVA ONLY) NO CREDIT

The SAT Writing Course was developed by aligning content with the strands and topics that are assessed on the SAT. This course focuses on the study of different writing strategies and language skills. In this course, you will find a variety of lessons and activities to enhance your knowledge of these strategies.

*Grade level: 9, 10, 11, 12*

# SPECIAL OPTIONS

Students interested in any of these options should discuss the option with their counselor to determine if the option is feasible and appropriate for the student's future plans.

## INDEPENDENT STUDY PROGRAM

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### INDEPENDENT STUDY

FULL YEAR 6 DAY 1 CREDIT

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### INDEPENDENT STUDY

FULL YEAR 3 DAY .50 CREDIT

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### INDEPENDENT STUDY

HALF YEAR 6 DAY .50 CREDIT

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### INDEPENDENT STUDY

HALF YEAR 3 DAY .25 CREDIT

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The independent study program is designed to meet the needs of junior and senior students who have exhausted the options in a particular curriculum area or desire to pursue course work not offered by West Allegheny in that area.

The school district will only consider a program if the student is able to meet all requirements for graduation as outlined in the Student/Parent Handbook. Students must be able to demonstrate the educational significance of their participation in an independent study program.

Only students demonstrating exceptional talents or needs for acceleration can qualify. All possible efforts should be made to meet these needs through the regular curriculum.

Students must complete an independent study application, following all required steps, and have the application approved prior to beginning an independent study course.

Independent study courses cannot replace a required or existing course offered. Freshman and sophomore students may only schedule independent study courses in the event of a conflict in their schedule and/or with prior approval of a counselor and an administrator. The High School Principal shall act as final authority regarding questions in regard to independent studies.

*Grade level: 11, 12*

**Students will receive credit toward elective requirements for independent study courses, but will be evaluated on a Pass/Fail basis – not assigned a letter grade. Independent study courses are not calculated into a student's GPA.**

## DUAL ENROLLMENT COLLEGE COURSES

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### DUAL ENROLLMENT

1 CREDIT

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Juniors and seniors may enroll in college courses outside of the concurrent/dual enrollment offerings available through West Allegheny affiliated programs (Early College in High School Academy (concurrent) and the Aviation Academy (dual)) while simultaneously completing all West Allegheny credit requirements for graduation. This option will provide students with the opportunity to earn college credits as well as high school elective credit (one West Allegheny credit may be awarded per three-credit college course passed with a grade of "C" or better) if desired.

# SPECIAL OPTIONS

Students interested in any of these options should discuss the option with their counselor to determine if the option is feasible and appropriate for the student's future plans.

Students wishing to have West Allegheny credit awarded are responsible for informing their school counselor and providing an official copy of their final grade transcript for the college course. **Dual enrollment courses taken outside of West Allegheny affiliated dual enrollment programs may not replace West Allegheny core courses.**

Students who pursue this option are responsible for their own transportation, fees, books, and tuition. Students must complete any forms required by the college.

Students may take courses at any college or university that offers a dual enrollment program. In the past, students have taken courses at such places as Community College of Allegheny County, Penn State – Beaver, and Robert Morris University.

Any student wishing to participate in dual enrollment must complete an application process, which includes approval by the student's school counselor and the high school administration, and may be asked to provide ongoing proof of course enrollment.

*Grade level: 11, 12*

**Students may request to receive credit toward West Allegheny elective requirements for dual enrollment courses taken outside of West Allegheny affiliated programs in which they earned a "C" or better. The letter grade earned in the college course will appear on the West Allegheny transcript. Dual enrollment courses taken outside of West Allegheny affiliated programs are not calculated into a student's West Allegheny High School GPA.**

## WORK RELEASE PROGRAM

### WORK RELEASE

**NO CREDIT**

This program is designed to meet the needs of senior students who may need to work at a part-time job or participate in a cooperative work experience through Parkway West Career & Technology Center. The student's schedule must be such that he or she is able to take all required subjects and be earning enough credits his or her senior year to ensure, if successfully completed, that he or she will meet the requirements for graduation.

Any student wishing to utilize work release must complete an application process, which includes approval by the student's school counselor and the high school administration, and will be asked to provide ongoing proof of employment. The student is responsible for his or her own transportation. Counselors will work closely with students who want to pursue work release on an academic program of studies that satisfies the course and graduation requirements. Work release planning should begin in the sophomore year.

**Approval of work release is not guaranteed.**

*Grade level: 12*

# Appendix A: Course Selection Forms



# West Allegheny High School

## Course Scheduling Form: RISING SENIORS



*Every student must schedule and maintain a minimum of 7.00 credits unless otherwise permitted by the principal through an approved academic plan. Be certain to review the requirements and prerequisites for the courses you are choosing.*

<b>Last Name:</b> <small>(Please print legibly)</small>				<b>First Name:</b> <small>(Please print legibly)</small>				
<b>Please select at least one Career and College Pathway:</b>								
<input type="checkbox"/> Arts and Communication		<input type="checkbox"/> Career and Industry		<input type="checkbox"/> Human and Public Services		<input type="checkbox"/> Science and Health		
<input type="checkbox"/> Business and Finance		<input type="checkbox"/> Computer Science		<input type="checkbox"/> Pre-Engineering				
Potential Career Goal (if known):								
<b>Are you enrolled or planning to enroll in an ECIHSA program? If so, which one?</b>								
<input type="checkbox"/> Cybersecurity Cert.		<input type="checkbox"/> Multi Game Sim Cert.		<input type="checkbox"/> Mechatronics Tech Cert.		<input type="checkbox"/> General Studies Cert.		
<input type="checkbox"/> Cybersecurity Assoc.		<input type="checkbox"/> Multi Game Sim Assoc.				<input type="checkbox"/> Concurrent Enrollment		
<b>English Language Arts</b> <small>Minimum of 4 credits required for graduation</small>								
Student Requested Course:				Teacher Initials:	0122 AP English Language and Composition 0129 Career Readiness English 1 0130 Career Readiness English 2 0131 College Readiness English 12 0132 AP English Literature and Composition ___ Other Approved Course			
Teacher Recommendation:								
Parent Acknowledgement:		Agree with Teacher Rec.						Disagree with Teacher Rec.
<b>Mathematics</b> <small>Minimum of 4 credits required for graduation unless attending Parkway</small>								
Student Requested Course:				Teacher Initials:	0319 Trig/Precalculus 0320 Honors Trig/Precalculus 0321 Discrete Math 0322 Calculus 0323 AP Calculus AB		0324 AP Statistics 0612 CHS Fin Accounting 0617 AP Comp Sci Principles 0618 AP Computer Science A ___ Other Approved Course	
Teacher Recommendation:								
Parent Acknowledgement:		Agree with Teacher Rec.						
<b>Science</b> <small>Minimum of 4 credits required for graduation unless attending Parkway</small>								
Student Requested Course:				Teacher Initials:	0408 Forensic Science 0409 Anatomy and Physiology 0410 AP Biology 0411 AP Chemistry 0412 AP Physics 1 0413 AP Physics 2 0422 Prin of Biomed Sciences 0423 Human Body Systems		0424 Medical Interventions 0716 Digital Electronics 0717 Envir Sustainability 0718 Civil Engineer & Arch 0719 Engineer Design and Dev 0831 Exercise Science ___ Other Approved Course	
Teacher Recommendation:								
Parent Acknowledgement:		Agree with Teacher Rec.						
<b>Social Studies 1.00 Credit Required</b> <small>Minimum of 4 credits required for graduation unless attending Parkway</small>								
Student Requested Course:				Teacher Initials:	0232 AP U.S. Gov & Politics 0238 AP World History 0240 AP Psychology 0242 AP Economics 0243 Criminal Justice & Invest 0244 Psychology and Sociology 0246 Comp Religions (S-0.50) 0247 Holocaust/Gen St (S-50) 0249 Current Affairs (S-0.50) 0250 Sociology of Sports (S-0.50) 0624 Game Prod & Marketing 0263 Adv USMC Junior ROTC ___ Other Approved Course		<b>WORLD LANGUAGES:</b> 0502 Spanish III 0503 Honors EC Spanish IV 0504 AP Spanish Lang. & Culture 0522 German III 0523 Honors EC German IV 0524 AP German Lang. & Cul  <b>WAVA ONLY:</b> V239 AP United States History V251 African Amer Stud (S - .50) V252 Nat Am St: Cont Per (S-.50) V253 Women's Studies (S - .50) V512 French III V513 French IV V514 AP French Lang. & Culture V527 Mandarin Chinese III	
Teacher Recommendation:								
Parent Acknowledgement:		Agree with Teacher Rec.						
<b>Health &amp; Physical Education</b> <small>Minimum of 2 credits required for graduation unless otherwise approved by Administration</small>								
Student Requested Course:				Teacher Initials:	0804 Team Sports (3 Day - .50) 0805 Personal Fitness and Sport (3 Day -.50) 0806 Games and Leisure Activities (3 Day -.50) 0807 Aerobic Fitness (3 Day -.50) 0820 Physical Conditioning (6 Day - 1.00) 0821 Physical Conditioning (3 Day - .50) 0831 Exercise Science (6 Day - 1.00) ___ Other Approved Course			
Teacher Recommendation:								
Parent Acknowledgement:		Agree with Teacher Rec.						Disagree with Teacher Rec.



# West Allegheny High School

## Course Scheduling Form: RISING SENIORS



Elective Offerings			
Any elective requiring prerequisites (denoted by #) must include teacher initials. Students may choose to take additional academic courses as electives.			
Electives Choices: (in order of preference)	Teacher Initials	Electives Choices: (in order of preference)	Teacher Initials
1.		5.	
2.		6.	
3.		7.	
4.		8.	
<p style="text-align: center;"><u><b>AP CAPSTONE</b></u></p> <p>0200 AP Seminar 0201 AP Research #</p> <p style="text-align: center;"><u><b>BUSINESS, COMPUTER, &amp; INFORMATION TECHNOLOGY</b></u></p> <p style="text-align: center;"><b>ECIHTSA - CYBERSECURITY</b></p> <p>0630 Introduction to Cybersecurity 0631 Principles of Info Security# 0632 Comp Forensics w/Intrusion Detection &amp; Prevention#</p> <p style="text-align: center;"><b>ECIHTSA - MULTIMEDIA GAMES SIMULATION</b></p> <p>0620 Intro. Gm. Des &amp; Web Dev 0621 GameMaker Programming # 0622 Develop Multi Websites # 0623 3D Modeling # 0624 Game Prod &amp; Mktg # 0625 3D Game Development #</p> <p style="text-align: center;"><b>BUSINESS</b></p> <p>0606 Principles of Business 0607 Career, Pers &amp; Financial Succ 0608 Accounting 0609 Business Own/Entrepreneur 0610 Principles of Marketing 0612 CHS Financial Account #</p> <p style="text-align: center;"><b>COMPUTER SCIENCE</b></p> <p>0616 Intro. to Programming (S) 0617 AP Computer Science Prin # 0618 AP Computer Science A #</p> <p style="text-align: center;"><u><b>ENGINEERING &amp; TECHNOLOGY EDUCATION</b></u></p> <p style="text-align: center;"><b>ECIHTSA - MECHATRONICS TECHNOLOGY</b></p> <p>0711 Manufacturing 1 0707 Home Systems 0716 Digital Electronics #</p>	<p style="text-align: center;"><b>PLTW - ENGINEERING</b></p> <p>0714 Intro to Engineering Design 0715 Principles of Engineering # 0716 Digital Electronics # 0717 Environ Sustainability # 0718 Civil Engin &amp; Arch # 0719 Engin Design &amp; Dev #</p> <p style="text-align: center;"><b>TECHNOLOGY EDUCATION</b></p> <p>0706 Draw &amp; Des for Eng &amp; Arch 0708 CADD I # 0709 CADD II # 0719 CADD III # 0712 Manufacturing Tech II # 0713 Do It Yourself (DIY)</p> <p style="text-align: center;"><u><b>ENGLISH</b></u></p> <p>0151 Oral Comm &amp; Interpret #</p> <p style="text-align: center;"><u><b>FAMILY &amp; CONSUMER SCIENCES</b></u></p> <p>0720 Exploring Foods 0721 Adventures in Food 0722 Baking Around the World 0724 Food for Sport 0725 Fin Lit: Surv Real World 0726 Interior Design &amp; Textiles 0727 Relation. &amp; Parenting 0732 Child Development I 0733 Child Development II #</p> <p style="text-align: center;"><u><b>PERFORMING ARTS</b></u></p> <p>0750 Band I (6 Day) 0751 Band I (3 Day) 0753 Band II (6 Day) 0754 Band II (3 Day) 0756 Band III (6 Day aud. only) # 0757 Band III (3 Day aud. only) # 0759 Jazz Studies: Vocal (3 Day) 0760 Jazz Studies: Instrum. (3 Day) 0762 Beginning Piano (3 Day) 0763 Intermediate Piano (3 Day) # 0764 Beginning Guitar (3 Day) 0765 Intermediate Guitar (3 Day) # 0766 Chorus I (6 Day) 0768 Chorus I (3 Day)</p>	<p>0774 Show Choir (6 Day aud. only) # 0775 Show Choir (3 Day aud. only) # 0777 Digital Audio Prod. I (6 Day) 0778 Digital Audio Prod I (3 Day) 0779 Dig Audio Prod II (6 Day) # 0780 Dig Audio Prod II (3 Day) #</p> <p style="text-align: center;"><u><b>SCIENCE</b></u></p> <p>0408 Forensic Science 0409 Anatomy and Physiology # 0410 AP Biology # 0411 AP Chemistry # 0412 AP Physics 1 # 0413 AP Physics 2 #</p> <p style="text-align: center;"><b>PLTW - BIOMEDICAL SCIENCES</b></p> <p>0422 Prin of the Biomed Sci # 0423 Human Body Systems # 0424 Medical Interventions #</p> <p style="text-align: center;"><u><b>SOCIAL STUDIES</b></u></p> <p>0232 AP U.S. Government &amp; Politics 0240 AP Psychology 0242 AP Economics 0243 Criminal Justice &amp; Investigations 0244 Psychology and Sociology 0246 Comparative Religions (S) 0247 Holocst &amp; Genocd Studies (S) 0249 Current Affairs (S) 0250 Sociology of Sports (S) V239 AP U.S. History (WAVA) V251 Afr Am Stud (S - WAVA) V252 Nat Am Stud (S - WAVA) V253 Women's Studies (S - WAVA)</p> <p style="text-align: center;"><u><b>VISUAL &amp; MEDIA ARTS</b></u></p> <p>0740 Art I 0741 Art II # 0742 Art III # 0743 Honor EC Art IV # 0744 AP Studio Art # 0748 Media Arts 0611 Yearbook 0749 Social Media and Broadcasting</p>	<p style="text-align: center;"><u><b>USMC JUNIOR ROTC</b></u></p> <p>0261 Beginning USMC JROTC 0262 Intermediate USMC JROTC # 0263 Advanced USMC JROTC #</p> <p style="text-align: center;"><u><b>WORLD LANGUAGES</b></u></p> <p>0500 Spanish I 0501 Spanish II # 0502 Spanish III # 0503 Honors EC Spanish IV # 0504 AP Spanish Lang &amp; Cul # 0520 German I 0521 German II # 0522 German III # 0523 Honor EC German IV # 0524 AP German Lang &amp; Cul # 0525 American Sign Language I 0526 American Sign Language II # V510 French I (WAVA) V511 French II (WAVA) # V512 French III (WAVA) # V513 French IV (WAVA) # V514 AP French Lan &amp; Cul (WAVA)# V530 Mand Chinese I (WAVA) V531 Mand Chinese II (WAVA) # V532 Mand Chinese III (WAVA) #</p> <p style="text-align: center;"><u><b>PARKWAY WEST CAREER &amp; TECHNOLOGY CENTER</b></u></p> <p>2501 Auto Body Technology 2502 Automotive Technology 2503 Constr. Tech Cluster (1<sup>st</sup> year) 2504 Building Construction Tech # 2505 Electrical Systems Tech # 2506 HVAC # 2508 Welding Technology # 2509 Cosmetology 2510 Culinary Arts 2511 Health Assistant 2512 Diesel Technology 2513 Digital Multimedia 2514 Information Tech Essentials 2515 Public Safety Technology 2516 Sports Medicine &amp; Rehab Therapy Tech (SMARTT) 2517 Veterinary Technology</p>

*By signing below, you acknowledge that you have reviewed your child's course selections and teacher recommendations for the 2019-2020 school year and have provided input accordingly. In the event that you disagree with a teacher's recommendation, please provide detailed comments below; your child's school counselor will be in contact to review the most appropriate course selection for your child.*

Parent Signature \_\_\_\_\_ Date \_\_\_\_\_

Comments \_\_\_\_\_

For Counselor use only:



# West Allegheny High School

## Course Scheduling Form: RISING JUNIORS



*Every student must schedule and maintain a minimum of 7.00 credits unless otherwise permitted by the principal through an approved academic plan. Be certain to review the requirements and prerequisites for the courses you are choosing.*

<b>Last Name:</b> <small>(Please print legibly)</small>			<b>First Name:</b> <small>(Please print legibly)</small>		
<b>Please select at least one Career and College Pathway:</b>					
<input type="checkbox"/> Arts & Communication		<input type="checkbox"/> Career & Industry		<input type="checkbox"/> Human & Public Services	
<input type="checkbox"/> Business & Finance		<input type="checkbox"/> Computer Science		<input type="checkbox"/> Science & Health	
				<input type="checkbox"/> Pre-Engineering	
Potential Career Goal (if known):					
Are you enrolled or planning to enroll in an ECIHSA program? If so, which one?					
<input type="checkbox"/> Cybersecurity Cert.		<input type="checkbox"/> Multi Game Sim Cert.		<input type="checkbox"/> General Studies Cert.	
<input type="checkbox"/> Cybersecurity Assoc.		<input type="checkbox"/> Multi Game Sim Assoc.		<input type="checkbox"/> Mechatronics Tech Cert.	
				<input type="checkbox"/> Concurrent Enrollment	
<b>English Language Arts</b>					
<b>Minimum of 4 credits required for graduation</b>					
Student Requested Course:			Teacher Initials:	0121 College Readiness English 11	
Teacher Recommendation:				0122 AP English Language and Composition	
Parent Acknowledgement:				0129 Career Readiness English I	
			___ Other Approved Course		
<input type="checkbox"/> Agree with Teacher Rec. <input type="checkbox"/> Disagree with Teacher Rec.					
<b>Mathematics</b>					
<b>Minimum of 4 credits required for graduation unless attending Parkway</b>					
Student Requested Course:			Teacher Initials:	0315 Algebra II	
Teacher Recommendation:				0316 Algebra II with Lab	
Parent Acknowledgement:				0317 Honors EC Algebra II	
			0319 Trigonometry/Precalculus		
			0320 Honors Trigonometry/Precalculus		
			0321 Discrete Math		
			0322 Calculus		
			0323 AP Calculus		
			0324 AP Statistics		
			0607 CHS Financial Accounting		
			0630 AP Computer Science Principles		
			0632 AP Computer Science A		
			___ Other Approved Course		
<input type="checkbox"/> Agree with Teacher Rec. <input type="checkbox"/> Disagree with Teacher Rec.					
<b>Science</b>					
<b>Minimum of 4 credits required for graduation unless attending Parkway</b>					
Student Requested Course:			Teacher Initials:	0406 Conceptual Physics	
Teacher Recommendation:				0407 Physics	
Parent Acknowledgement:				0412 AP Physics 1	
			___ Other Approved Course		
<input type="checkbox"/> Agree with Teacher Rec. <input type="checkbox"/> Disagree with Teacher Rec.					
<b>Social Studies</b>					
<b>Minimum of 4 credits required for graduation unless attending Parkway</b>					
Student Requested Course:			Teacher Initials:	0236 World Cultures (with Junior Seminar)	
Teacher Recommendation:				0238 AP World History	
Parent Acknowledgement:				___ Other Approved Course	
<input type="checkbox"/> Agree with Teacher Rec. <input type="checkbox"/> Disagree with Teacher Rec.					
<b>Health &amp; Physical Education</b>					
<b>Minimum of 2 credits required for graduation unless otherwise approved by Administration</b>					
Student Requested Course:			Teacher Initials:	0804 Team Sports (3 Day - .50)	
Teacher Recommendation:				0805 Personal Fitness and Sport (3 Day -.50)	
Parent Acknowledgement:				0806 Games and Leisure Activities (3 Day -.50)	
			0807 Aerobic Fitness (3 Day -.50)		
			0820 Physical Conditioning (6 Day - 1.00)		
			0821 Physical Conditioning (3 Day - .50)		
			0831 Exercise Science (6 Day - 1.00)		
			___ Other Approved Course		
<input type="checkbox"/> Agree with Teacher Rec. <input type="checkbox"/> Disagree with Teacher Rec.					



# West Allegheny High School

## Course Scheduling Form: RISING JUNIORS



Elective Offerings			
<i>Any elective requiring prerequisites (denoted by #) must include teacher initials. Students may choose to take additional academic courses as electives.</i>			
Electives Choices: (in order of preference)	Teacher Initials	Electives Choices: (in order of preference)	Teacher Initials
1.		5.	
2.		6.	
3.		7.	
4.		8.	
<p><b><u>AP CAPSTONE</u></b> 0200 AP Seminar 0201 AP Research #</p> <p><b><u>BUSINESS, COMPUTER, &amp; INFORMATION TECHNOLOGY</u></b></p> <p><b>ECIHTSA - CYBERSECURITY</b> 0630 Introduction to Cybersecurity 0631 Principles of Info Security# 0632 Comp Forensics w/Intrusion Detection &amp; Prevention#</p> <p><b>ECIHTSA - MULTIMEDIA GAMES SIMULATION</b> 0620 Intro Game Des &amp; Web Dev 0621 GameMaker Programming # 0622 Develop Multi Websites # 0623 3D Modeling # 0625 3D Game Development #</p> <p><b>BUSINESS</b> 0606 Principles of Business 0607 Career, Pers &amp; Financial Succ 0608 Accounting 0609 Business Own/Entrepreneur 0610 Principles of Marketing 0612 CHS Fin Accounting</p> <p><b>COMPUTER SCIENCE</b> 0616 Intro. to Programming (S) 0617 AP Computer Science Prin # 0618 AP Computer Science A #</p> <p><b><u>ENGINEERING &amp; TECHNOLOGY EDUCATION</u></b></p> <p><b>ECIHTSA - MECHATRONICS TECHNOLOGY</b> 0711 Manufacturing 1 0707 Home Systems 0716 Digital Electronics #</p> <p><b>PLTW - ENGINEERING</b> 0714 Intro to Engineering Design 0715 Principles of Engineering # 0716 Digital Electronics # 0717 Environ. Sustainability # 0718 Civil Engin. &amp; Arch # 0719 Engin. Design &amp; Dev #</p>	<p><b>TECHNOLOGY EDUCATION</b> 0706 Draw &amp; Des for Eng &amp; Arch 0708 CADD I # 0709 CADD II # 0712 Manufacturing Tech II # 0713 Do It Yourself (DIY)</p> <p><b><u>FAMILY &amp; CONSUMER SCIENCES</u></b> 0720 Exploring Foods 0721 Adventures in Food 0722 Baking Around the World 0724 Food for Sport 0725 Fin Lit: Surv Real World 0726 Interior Design &amp; Textiles 0727 Relation. &amp; Parenting 0732 Child Development</p> <p><b><u>PERFORMING ARTS</u></b> 0750 Band I (6 Day) 0751 Band I (3 Day) 0753 Band II (6 Day) 0754 Band II (3 Day) 0756 Band III (6 Day <i>aud. only</i>) # 0757 Band III (3 Day <i>aud. only</i>) # 0759 Jazz Studies: Vocal (3 Day) 0760 Jazz Studies: Instrum. (3 Day) 0762 Beginning Piano (3 Day) 0763 Intermediate Piano (3 Day) # 0764 Beginning Guitar (3 Day) 0765 Intermediate Guitar (3 Day) # 0766 Chorus I (6 Day) 0768 Chorus I (3 Day) 0774 Show Choir (6 Day <i>aud. only</i>) # 0775 Show Choir (3 Day <i>aud. only</i>) # 0777 Digital Audio Prod. I (6 Day) 0778 Digital Audio Prod. I (3 Day) 0779 Digital Audio Prod. II (6 Day) # 0780 Digital Audio Prod. II (3 Day) #</p>	<p>0785 Acting &amp; Tech. Theat. (6 Day) 0786 Acting &amp; Tech. Theat. (3 Day) 0788 Theat. Cost. &amp; Mkup. (6 Day) 0789 Theat. Cost. &amp; Mkup. (3 Day) 0791 Dance (6 Day) 0792 Dance (3 Day)</p> <p><b><u>SCIENCE</u></b> 0404 Conceptual Chemistry 0405 Honors Chemistry with Lab 0408 Forensic Science 0409 Anatomy and Physiology # 0410 AP Biology # 0411 AP Chemistry # 0413 AP Physics 2 #</p> <p><b>PLTW - BIOMEDICAL SCIENCES</b> 0422 Princ. of the Biomed Sci # 0423 Human Body Systems # 0424 Medical Interventions #</p> <p><b><u>SOCIAL STUDIES</u></b> 0232 AP U.S. Government &amp; Politics 0240 AP Psychology 0242 AP Economics 0243 Criminal Justice &amp; Investigations 0244 Psychology and Sociology 0246 Comparative Religions (S) 0247 Holocst. &amp; Genocd. Studies (S) 0249 Current Affairs (S) 0250 Sociology of Sports (S) V239 AP U.S. History (WAVA) V251 Afr Am Stud (S - WAVA) V252 Nat Am Stud (S - WAVA) V253 Women's Studies (S - WAVA)</p> <p><b><u>VISUAL &amp; MEDIA ARTS</u></b> 0740 Art I 0741 Art II # 0742 Art III # 0748 Media Arts 0611 Yearbook 0749 Social Media and Broadcasting</p>	<p><b><u>USMC JUNIOR ROTC</u></b> 0261 Beginning USMC JROTC 0262 Intermediate USMC JROTC #</p> <p><b><u>WORLD LANGUAGES</u></b> 0500 Spanish I 0501 Spanish II # 0502 Spanish III # 0503 Honors EC Spanish IV # 0520 German I 0521 German II # 0522 German III # 0523 Honors EC German IV # 0525 American Sign Language I 0526 American Sign Language II # V510 French I (WAVA) V511 French II (WAVA) # V512 French III (WAVA) # V513 French IV (WAVA) # V530 Mand Chinese I (WAVA) V531 Mand Chinese II (WAVA) # V532 Mand Chinese III (WAVA) #</p> <p><b><u>PARKWAY WEST CAREER &amp; TECHNOLOGY CENTER</u></b> 2501 Auto Body Technology 2502 Automotive Technology 2503 Constr. Tech Cluster (1<sup>st</sup> year) 2504 Building Construction Tech # 2505 Electrical Systems Tech # 2506 HVAC # 2508 Welding Technology # 2509 Cosmetology 2510 Culinary Arts 2511 Health Assistant 2512 Diesel Technology 2513 Digital Multimedia 2514 Information Tech Essentials 2515 Public Safety Technology 2516 Sports Medicine &amp; Rehab Therapy Tech (SMARTT) 2517 Veterinary Technology</p>

By signing below, you acknowledge that you have reviewed your child's course selections and teacher recommendations for the 2019-2020 school year and have provided input accordingly. In the event that you disagree with a teacher's recommendation, please provide detailed comments below; your child's school counselor will be in contact to review the most appropriate course selection for your child.

Parent Signature \_\_\_\_\_ Date \_\_\_\_\_

Comments \_\_\_\_\_

For Counselor use only:
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# West Allegheny High School

## Course Scheduling Form: RISING SOPHOMORES



*Every student must schedule and maintain a minimum of 7.00 credits unless otherwise permitted by the principal through an approved academic plan. Be certain to review the requirements and prerequisites for the courses you are choosing.*

<b>Last Name:</b> (Please print legibly)				<b>First Name:</b> (Please print legibly)			
<b>Please select at least one Career and College Pathway:</b>							
<input type="checkbox"/> Arts and Communication		<input type="checkbox"/> Computer Science		<input type="checkbox"/> Pre-Engineering			
<input type="checkbox"/> Business and Finance		<input type="checkbox"/> Human and Public Services		<input type="checkbox"/> Science and Health			
<input type="checkbox"/> Career and Industry							
Potential Career Goal (if known):							
Are you enrolled or planning to enroll in an ECIHSA program? If so, which one?							
<input type="checkbox"/> Cybersecurity Cert.		<input type="checkbox"/> Multi Game Sim Cert.		<input type="checkbox"/> Mechatronics Tech Cert.		<input type="checkbox"/> General Studies Cert.	
<input type="checkbox"/> Cybersecurity Assoc.		<input type="checkbox"/> Multi Game Sim Assoc.				<input type="checkbox"/> Concurrent Enrollment	
<b>English Language Arts</b> Minimum of 4 credits required for graduation							
Student Requested Course:				Teacher Initials:		0111 Academic English 10	
Teacher Recommendation:						0112 Pre-AP/Honors English 10	
Parent Acknowledgement:		<input type="checkbox"/> Agree with Teacher Rec. <input type="checkbox"/> Disagree with Teacher Rec.				___ Other Approved Course	
<b>Mathematics</b> Minimum of 4 credits required for graduation unless attending Parkway							
Student Requested Course:				Teacher Initials:		0310 Geometry	
Teacher Recommendation:						0311 Advanced Geometry	
Parent Acknowledgement:		<input type="checkbox"/> Agree with Teacher Rec. <input type="checkbox"/> Disagree with Teacher Rec.				0315 Algebra II	
						0316 Algebra II with Lab	
						0317 Honors EC Algebra II	
						0319 Trigonometry/Precalculus	
						0320 Honors Trigonometry/Precalculus	
						0324 AP Statistics	
						0612 CHS Financial Accounting	
						0617 AP Computer Science Principles	
						0618 AP Computer Science A	
						___ Other Approved Course	
<b>Science</b> Minimum of 4 credits required for graduation unless attending Parkway							
Student Requested Course:				Teacher Initials:		0404 Conceptual Chemistry	
Teacher Recommendation:						0405 Honors Chemistry with Lab	
Parent Acknowledgement:		<input type="checkbox"/> Agree with Teacher Rec. <input type="checkbox"/> Disagree with Teacher Rec.				___ Other Approved Course	
<b>Social Studies</b> Minimum of 4 credits required for graduation unless attending Parkway							
Student Requested Course:				Teacher Initials:		0230 American Government	
Teacher Recommendation:						0232 AP U.S. Government & Politics	
Parent Acknowledgement:		<input type="checkbox"/> Agree with Teacher Rec. <input type="checkbox"/> Disagree with Teacher Rec.				___ Other Approved Course	
<b>Health &amp; Physical Education</b> ALL SOPHOMORE STUDENTS ARE REQUIRED TO COMPLETE PHYSICAL EDUCATION 10 & HEALTH 10 Minimum of 2 credits required for graduation unless otherwise approved by Administration							
REQUIRED Courses:				0802 Physical Education 10 (S-3 days per rotation)			
				0803 Health Education 10 (S-3 days per rotation)			



# West Allegheny High School

## Course Scheduling Form: RISING SOPHOMORES

Elective Offerings			
Any elective requiring prerequisites (denoted by #) must include teacher initials. Students may choose to take additional academic courses as electives.			
Electives Choices: (in order of preference)	Teacher Initials	Electives Choices: (in order of preference)	Teacher Initials
1.		5.	
2.		6.	
3.		7.	
4.		8.	
<p style="text-align: center;"><b><u>AP CAPSTONE</u></b></p> <p>0200 AP Seminar</p> <p style="text-align: center;"><b><u>BUSINESS, COMPUTER, &amp; INFORMATION TECHNOLOGY</u></b></p> <p style="text-align: center;"><b><u>ECIHS - CYBERSECURITY</u></b></p> <p>0630 Introduction to Cybersecurity 0631 Principles of Info Security # 0632 Comp Forensics w/Intrusion Detection &amp; Prevention #</p> <p style="text-align: center;"><b><u>ECIHS - MULTIMEDIA GAMES SIMULATION</u></b></p> <p>0620 Intro Game Desig &amp; Web Dev 0621 GameMaker Programming # 0622 Dev Multimedia Websites # 0623 3D Modeling #</p> <p style="text-align: center;"><b><u>BUSINESS</u></b></p> <p>0606 Principles of Business 0607 Career, Pers &amp; Financial Succ 0608 Accounting 0609 Business Own/Entrepreneur 0610 Principles of Marketing 0612 CHS Fin Accounting</p> <p style="text-align: center;"><b><u>COMPUTER SCIENCE</u></b></p> <p>0616 Intro. to Programming (S) 0617 AP Computer Science Prin # 0618 AP Computer Science A #</p> <p style="text-align: center;"><b><u>ENGINEERING &amp; TECHNOLOGY EDUCATION</u></b></p> <p style="text-align: center;"><b><u>ECIHS - MECHATRONICS TECHNOLOGY</u></b></p> <p>0711 Manufacturing 1 0707 Home Systems 0716 Digital Electronics #</p>	<p style="text-align: center;"><b><u>PLTW - ENGINEERING</u></b></p> <p>0714 Intro to Engineering Design 0715 Principles of Engineering # 0716 Digital Electronics # 0717 Environ Sustainability # 0718 Civil Engin &amp; Arch. #</p> <p style="text-align: center;"><b><u>TECHNOLOGY EDUCATION</u></b></p> <p>0706 Draw &amp; Des for Eng &amp; Arch 0708 CADD I # 0712 Manufacturing Tech II # 0713 Do It Yourself (DIY)</p> <p style="text-align: center;"><b><u>FAMILY &amp; CONSUMER SCIENCES</u></b></p> <p>0720 Exploring Foods 0721 Adventures in Food 0722 Baking Around the World 0724 Food for Sport 0726 Interior Design &amp; Textiles 0727 Relation. &amp; Parenting 0728 Dynamic Living</p> <p style="text-align: center;"><b><u>PERFORMING ARTS</u></b></p> <p>0750 Band I (6 Day) 0751 Band I (3 Day) 0753 Band II (6 Day) 0754 Band II (3 Day) 0756 Band III (6 Day aud. only) # 0757 Band III (3 Day aud. only) # 0759 Jazz Studies: Vocal (3 Day) 0760 Jazz Studies: Instrum. (3 Day) 0762 Beginning Piano (3 Day) 0763 Intermediate Piano (3 Day) # 0764 Beginning Guitar (3 Day) 0765 Intermediate Guitar (3 Day) #</p>	<p>0766 Chorus I (6 Day) 0768 Chorus I (3 Day) 0774 Show Choir (6 Day aud. only) # 0775 Show Choir (3 Day aud. only) # 0777 Digital Audio Prod. I (6 Day) 0778 Digital Audio Prod. I (3 Day) 0779 Digital Aud Prod. II (6 Day) # 0780 Digital Aud Prod. II (3 Day) # 0785 Acting &amp; Tech. Theat. (6 Day) 0786 Acting &amp; Tech. Theat. (3 Day) 0788 Theat. Cost. &amp; Mkup. (6 Day) 0789 Theat. Cost. &amp; Mkup. (3 Day) 0791 Dance (6 Day) 0792 Dance (3 Day)</p> <p style="text-align: center;"><b><u>PHYSICAL EDUCATION &amp; HEALTH</u></b></p> <p>0820 Physical Conditioning (6 Day) 0821 Physical Conditioning (3 Day)</p> <p style="text-align: center;"><b><u>SCIENCE</u></b></p> <p>0410 AP Biology #</p> <p style="text-align: center;"><b><u>PLTW - BIOMEDICAL SCIENCES</u></b></p> <p>0422 Princ. of the Biomed Sci #</p> <p style="text-align: center;"><b><u>SOCIAL STUDIES</u></b></p> <p>0243 Criminal Justice &amp; Invest V239 AP US History (WAVA)</p> <p style="text-align: center;"><b><u>VISUAL &amp; MEDIA ARTS</u></b></p> <p>0740 Art I 0741 Art II # 0748 Media Arts 0611 Yearbook 0749 Social Media and Broadcasting</p>	<p style="text-align: center;"><b><u>USMC JUNIOR ROTC</u></b></p> <p>0261 Beginning USMC JROTC 0262 Intermediate USMC JROTC #</p> <p style="text-align: center;"><b><u>WORLD LANGUAGES</u></b></p> <p>0500 Spanish I 0501 Spanish II # 0502 Spanish III # 0520 German I 0521 German II # 0522 German III # 0525 American Sign Language I 0526 American Sign Language II # V510 French I (WAVA) V511 French II (WAVA) # V530 Mand Chinese I (WAVA) V531 Mand Chinese II (WAVA) #</p> <p style="text-align: center;"><b><u>PARKWAY WEST CAREER &amp; TECHNOLOGY CENTER</u></b></p> <p>2501 Auto Body Technology 2502 Automotive Technology 2503 Constr. Tech Cluster (1<sup>st</sup> year) 2504 Building Construction Tech # 2505 Electrical Systems Tech # 2506 HVAC # 2508 Welding Technology # 2509 Cosmetology 2510 Culinary Arts 2511 Health Assistant 2512 Diesel Technology 2513 Digital Multimedia 2514 Information Tech Essentials 2515 Public Safety Technology 2516 Sports Medicine &amp; Rehab Therapy Tech (SMARTT) 2517 Veterinary Technology</p>

By signing below, you acknowledge that you have reviewed your child's course selections and teacher recommendations for the 2019-2020 school year and have provided input accordingly. In the event that you disagree with a teacher's recommendation, please provide detailed comments below; your child's school counselor will be in contact to review the most appropriate course selection for your child.

Parent Signature \_\_\_\_\_ Date \_\_\_\_\_

Comments \_\_\_\_\_

For Counselor use only:
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# West Allegheny High School

## Course Scheduling Form: RISING FRESHMEN



*Every student must schedule and maintain a minimum of 7.00 credits unless otherwise permitted by the principal through an approved academic plan. Be certain to review the requirements and prerequisites for the courses you are choosing.*

<b>Last Name:</b> (Please print legibly)				<b>First Name:</b> (Please print legibly)			
<b>Please select at least one Career and College Pathway:</b>							
<input type="checkbox"/> Arts and Communication		<input type="checkbox"/> Computer Science		<input type="checkbox"/> Pre-Engineering		<input type="checkbox"/> Science and Health	
<input type="checkbox"/> Business and Finance		<input type="checkbox"/> Human and Public Services		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/> Career and Industry							
Potential Career Goal (if known):							
Are you planning on enrolling in an ECIHSA program? If so, which one?							
<input type="checkbox"/> Cybersecurity Cert.		<input type="checkbox"/> Multi Game Sim Cert.		<input type="checkbox"/> Mechatronics Tech Cert.		<input type="checkbox"/> General Studies Cert.	
<input type="checkbox"/> Cybersecurity Assoc.		<input type="checkbox"/> Multi Game Sim Assoc.		<input type="checkbox"/>		<input type="checkbox"/> Concurrent Enrollment	
<b>English Language Arts</b> Minimum of 4 credits required for graduation							
Student Requested Course:					Teacher Initials: 0101 Academic English 9 0106 Pre-AP/Honors English 9 ____ Other Approved Course		
Teacher Recommendation:							
Parent Acknowledgement:		<input type="checkbox"/> Agree with Teacher Rec.	<input type="checkbox"/> Disagree with Teacher Rec.				
<b>Mathematics</b> Minimum of 4 credits required for graduation unless attending Parkway							
Student Requested Course:					Teacher Initials: 0308 Algebra I 0311 Advanced Geometry 0317 Honors EC Algebra II ____ Other Approved Course		
Teacher Recommendation:							
Parent Acknowledgement:		<input type="checkbox"/> Agree with Teacher Rec.	<input type="checkbox"/> Disagree with Teacher Rec.				
<b>Science</b> Minimum of 4 credits required for graduation unless attending Parkway							
Student Requested Course:					Teacher Initials: 0402 Biology with Lab 0403 Honors Biology with Lab ____ Other Approved Course		
Teacher Recommendation:							
Parent Acknowledgement:		<input type="checkbox"/> Agree with Teacher Rec.	<input type="checkbox"/> Disagree with Teacher Rec.				
<b>Social Studies</b> Minimum of 4 credits required for graduation unless attending Parkway							
Student Requested Course:					Teacher Initials: 0210 U.S. History 0211 Honors U.S. History ____ Other Approved Course		
Teacher Recommendation:			<input type="checkbox"/> Same as student				
Parent Acknowledgement:		<input type="checkbox"/> Agree with Teacher Rec.	<input type="checkbox"/> Disagree with Teacher Rec.				
<b>Health &amp; Physical Education</b> ALL FRESHMEN STUDENTS ARE REQUIRED TO COMPLETE PHYSICAL EDUCATION 9 & HEALTH 9 Minimum of 2 credits required for graduation unless otherwise approved by Administration							
REQUIRED Courses:				0800 Physical Education 9 (S-3 days per rotation) 0801 Health and Wellness 9 (S-3 days per rotation)			



# West Allegheny High School

## Course Scheduling Form: RISING FRESHMEN



<b>Elective Offerings</b> <i>Any elective requiring prerequisites (denoted by #) must include teacher initials.</i> Students may choose to take additional academic courses as electives.			
<b>Electives Choices:</b> (in order of preference)	Teacher Initials	<b>Electives Choices:</b> (in order of preference)	Teacher Initials
1.		5.	
2.		6.	
3.		7.	
4.		8.	
<p><b><u>BUSINESS, COMPUTER, &amp; INFORMATION TECHNOLOGY</u></b></p> <p><b>ECIHS - CYBERSECURITY</b> 0630 Introduction to Cybersecurity</p> <p><b>ECIHS - MULTIMEDIA GAMES SIMULATION</b> 0620 Intro Game Desig &amp; Web Dev</p> <p><b>BUSINESS</b> 0606 Principles of Business 0607 Career, Pers &amp; Financial Succ 0608 Accounting 0609 Business Own/Entrepreneur 0610 Principles of Marketing</p> <p><b>COMPUTER SCIENCE</b> 0616 Intro. to Programming (S)</p>	<p><b><u>ENGINEERING &amp; TECHNOLOGY EDUCATION</u></b></p> <p><b>ECIHS - MECHATRONICS TECHNOLOGY</b> 0711 Manufacturing 1 0707 Home Systems</p> <p><b>PLTW - ENGINEERING</b> 0714 Intro to Engineering Design</p> <p><b>TECHNOLOGY EDUCATION</b> 0706 Draw &amp; Des for Eng &amp; Arch 0713 Do It Yourself (DIY)</p> <p><b><u>FAMILY &amp; CONSUMER SCIENCES</u></b> 0720 Exploring Foods 0721 Adventures in Food 0722 Baking Around the World 0724 Food for Sport 0726 Interior Design &amp; Textiles 0727 Relation. &amp; Parenting 0728 Dynamic Living</p>	<p><b><u>PERFORMING ARTS</u></b> 0750 Band I (6 Day) 0751 Band I (3 Day) 0759 Jazz Studies: Vocal (3 Day) 0760 Jazz Studies: Instrum. (3 Day) 0762 Beginning Piano (3 Day) 0763 Intermediate Piano (3 Day) # 0764 Beginning Guitar (3 Day) 0765 Intermediate Guitar (3 Day) # 0766 Chorus (6 Day) 0768 Chorus (3 Day) 0777 Digital Audio Prod. I (6 Day) 0778 Digital Audio Prod. I (3 Day) 0785 Acting &amp; Tech. Theat. (6 Day) 0786 Acting &amp; Tech. Theat. (3 Day) 0788 Theat. Cost. &amp; Mkp. (6 Day) 0789 Theat. Cost. &amp; Mkp. (3 Day) 0792 Dance (6 Day) 0793 Dance (3 Day)</p> <p><b><u>PHYSICAL EDUCATION &amp; HEALTH</u></b> 0820 Physical Conditioning (6 Day) 0821 Physical Conditioning (3 Day)</p> <p><b><u>USMC JUNIOR ROTC</u></b> 0261 Beginning USMC JROTC</p>	<p><b><u>VISUAL &amp; MEDIA ARTS</u></b> 0740 Art I 0748 Media Arts 0611 Yearbook 0749 Social Media and Broadcasting</p> <p><b><u>WORLD LANGUAGES</u></b> 0500 Spanish I 0501 Spanish II # 0520 German I 0521 German II # 0525 American Sign Language I V510 French I (WAVA) V530 Mand Chinese I (WAVA)</p> <p><b><u>PARKWAY WEST CAREER &amp; TECHNOLOGY CENTER</u></b> 2501 Auto Body Technology 2502 Automotive Technology 2503 Constr. Tech Cluster (1<sup>st</sup> year) 2509 Cosmetology 2510 Culinary Arts 2511 Health Assistant 2512 Diesel Technology 2513 Digital Multimedia 2514 Information Tech Essentials 2515 Public Safety Technology 2516 Sports Medicine &amp; Rehab Therapy Tech (SMARTT) 2517 Veterinary Technology</p>

*By signing below, you acknowledge that you have reviewed your child's course selections and teacher recommendations for the 2019-2020 school year and have provided input accordingly. In the event that you disagree with a teacher's recommendation, please provide detailed comments below; your child's school counselor will be in contact to review the most appropriate course selection for your child.*

Parent Signature \_\_\_\_\_ Date \_\_\_\_\_

Comments \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

For Counselor use only:
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Appendix B:  
4-year Academic  
Planning Worksheet



# West Allegheny High School

## 4-year Academic Planning Worksheet



This worksheet is designed to be helpful in the planning of your high school academics. It is the responsibility of students and parents to know the requirements for promotion and graduation, however, your school counselor is available to assist you in planning your 4-year academic course path. Please remember that every student must carry a minimum of 7.00 credits each school year, unless otherwise pre-approved by a school administrator. Please be sure to review the graduation requirements and credits required from promotion while determining your 4-year academic plan.

9 <sup>th</sup> Grade			
	Course Number	Course Title	Credits
English			
Math			
Science			
Social Studies			
Health/PE			
Elective			
Total Credits			

10 <sup>th</sup> Grade			
	Course Number	Course Title	Credits
English			
Math			
Science			
Social Studies			
Health/PE			
Elective			
Total Credits			



# West Allegheny High School

## 4-year Academic Planning Worksheet



This worksheet is designed to be helpful in the planning of your high school academics. It is the responsibility of students and parents to know the requirements for promotion and graduation, however, your school counselor is available to assist you in planning your 4-year academic course path. Please remember that every student must carry a minimum of 7.00 credits each school year, unless otherwise pre-approved by a school administrator. Please be sure to review the graduation requirements and credits required from promotion while determining your 4-year academic plan.

11 <sup>th</sup> Grade			
	Course Number	Course Title	Credits
English			
Math			
Science			
Social Studies			
Health/PE			
Elective			
Total Credits			

12 <sup>th</sup> Grade			
	Course Number	Course Title	Credits
English			
Math			
Science			
Social Studies			
Health/PE			
Elective			
Total Credits			

# Appendix C: Waiver Form



# WEST ALLEGHENY SCHOOL DISTRICT

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## ACADEMIC WAIVER REQUEST

*Certain courses at West Allegheny High School have prerequisites or other academic guidelines that are made to try to assure success in a course that is scheduled for the next year. Course recommendations are determined based on multiple factors including current and past grades and standardized test scores, as well as work ethic and motivation displayed in class (i.e. homework completion and class participation).*

*If a parent believes that a student can be successful in a course that the student is not recommended for, he/she may submit a waiver request to the building principals for review.*

*Submission of an Academic Waiver Request does not guarantee the class will be added or changed. Requests will be reviewed by an administrator, and you will be notified of the decision.*

**STUDENT NAME:** \_\_\_\_\_ Present grade level \_\_\_\_\_

Course recommended by teacher: \_\_\_\_\_

Counselor's Signature: \_\_\_\_\_

**Course requested by parent:** \_\_\_\_\_

*If this class is replacing an existing course request, please list the class that is to be removed from your schedule to fit this class.*

\_\_\_\_\_

Current Academic Course \_\_\_\_\_ Grades 1<sup>st</sup> \_\_\_\_\_ 2<sup>nd</sup> \_\_\_\_\_ 3<sup>rd</sup> \_\_\_\_\_ 4<sup>th</sup> \_\_\_\_\_ Final \_\_\_\_\_

Prior Prerequisite Course (if applicable) \_\_\_\_\_ Final Grade \_\_\_\_\_

Prior Prerequisite Course (If applicable) \_\_\_\_\_ Final Grade \_\_\_\_\_

**To be completed by the student:**

*Briefly describe why you are requesting a course for which you were not recommended or for which you do not have the prerequisite(s).*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*What caused you not to not be recommended and/or earn the required prerequisites?*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*What strategies do you plan on putting in place to be successful in your requested course, if approved?*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ALL WAIVER REQUESTS MUST BE SUBMITTED BY JUNE 17, 2019**

Parent's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Student's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(See reverse side)

**When submitting a Waiver Request Form, please keep the following in mind:**

- ❖ Academic level CHANGE REQUESTS to move to a **higher** level course will be considered from the first day of school through the twelfth day of school.
- ❖ Academic level CHANGE REQUESTS to move to a **lower** level course will be considered after the progress report of the first marking period through two weeks past the end of the first marking period.
- ❖ **ANY TIME AN ACADEMIC LEVEL is changed to a lower level the original course WILL appear on the student's transcript with a "W", but the "W" will not affect the student's GPA.** Students are responsible for making up any missed work in the new course.
- ❖ **NO LEVEL CHANGES WILL BE MADE AFTER TWO WEEKS PAST THE END OF THE FIRST MARKING PERIOD.**
- ❖ After the first nine weeks of school through the end of the year, students may request to drop a course and replace it with a study hall. **IF the request is approved, the student will receive a grade of "WF" for Withdrawal/Fail in the original course. The "WF" will be averaged into the student's GPA as a failing grade. Dropping a course requires administrative approval.**

**SEE PROGRAM OF STUDIES BOOK FOR COMPLETE SCHEDULE CHANGE PROCEDURES**

Principal Signature \_\_\_\_\_

Date \_\_\_\_\_

APPROVED

NOT APPROVED

# Appendix D: Early Release Applications



## **DUAL ENROLLMENT AND WORK EARLY RELEASE REQUEST GUIDELINES**

In the 2019-2020 school year, senior students will be eligible for early release based on employment and dual enrollment only. Junior students are eligible for early release for dual enrollment purposes only. The early release program will only be used for students who are making adequate progress toward graduation requirements and whose class schedule permits the early dismissal.

### **Situation #1: DUAL ENROLLMENT REQUEST (for classes taken at a College/University) – (junior/senior eligible)**

#### **CRITERIA:**

- Student is enrolled in at least one class through the dual enrollment program (or another administratively approved College or University Program).
- The student files a copy of semester class schedule with his/her school counselor.

### **Situation #2: WORK RELEASE REQUEST (seniors only)**

#### **CRITERIA:**

- Student is employed 10 or more hours a week at a place of employment.
- Student files a copy of his/her place of employment with name of manager and phone number for contact with their school counselor. Students must submit their work schedule or a copy of their pay stub to their school counselor on a monthly basis.

**TERMINATION POLICY:** If release time is granted and the student's employment or college classes cease for any reason, then the student must notify the school and return to full time attendance at WAHS immediately. If a student is failing classes or defaulting on Keystone Exam proficiency, release time will be terminated. Student progress will be monitored monthly for continued employment or college attendance.



# WEST ALLEGHENY SCHOOL DISTRICT

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## DUAL ENROLLMENT EARLY RELEASE REQUEST

### Student Information

Full Name: \_\_\_\_\_ Grade: \_\_\_\_\_  
 Street Address: \_\_\_\_\_ Home Phone #: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_ Cell #: \_\_\_\_\_

### Dual Enrollment Information

Name of College: \_\_\_\_\_ School Counselor: \_\_\_\_\_  
 Class Enrolled: \_\_\_\_\_ Semester: Fall or Spring (circle one)  
 Class Enrolled: \_\_\_\_\_ Semester: Fall or Spring (circle one)

### Student Agreement

*I agree to submit all of the required paperwork for dual enrollment and file a copy of my class schedule in the guidance office. I will make all of the necessary appointments and adjustments with the guidance office if my schedule changes. I recognize that failure to notify the school of any changes in dual enrollment status will result in removal from the Dual Enrollment Early Release Program.*

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

### Parent/Guardian Information

Full Name: \_\_\_\_\_ Relationship: \_\_\_\_\_

### Parent Agreement

*I grant permission for my son/daughter to be released from school early while in the Dual Enrollment Early Release Program. I recognize that failure to notify the school of changes in dual enrollment status will result in removal from the Dual Enrollment Early Release Program.*

Parent Signature: \_\_\_\_\_ Date: \_\_\_\_\_

-----Administrative Use Only-----

Class Schedule, Work Schedule, or Copy of Pay Stub Attached  
 Approved  Not Approved - Reason \_\_\_\_\_

Administrator Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Notes \_\_\_\_\_  
 \_\_\_\_\_



# WEST ALLEGHENY SCHOOL DISTRICT

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## WORK EARLY RELEASE REQUEST

### Student Information

Full Name: \_\_\_\_\_ Grade: \_\_\_\_\_  
Street Address: \_\_\_\_\_ Home Phone #: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_ Cell #: \_\_\_\_\_

### Student Agreement

*I agree to submit all of the required paperwork and file a copy of my work schedule monthly in the guidance office. I will make all of the necessary appointments and adjustments with the guidance office if my work schedule changes. I agree to work 10 or more hours per week at my place of employment and I recognize that failure to do so will result in removal from the Work Early Release Program.*

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

### Parent/Guardian Information

Full Name: \_\_\_\_\_ Relationship: \_\_\_\_\_  
Home Phone #: \_\_\_\_\_ Cell #: \_\_\_\_\_

### Parent Agreement

*I grant permission for my son/daughter to be released from school early while in the work release program. I understand that they must work 10 or more hours per week at an approved place of employment and I recognize that failure to do so will result in removal from the Work Early Release Program.*

Parent Signature: \_\_\_\_\_ Date: \_\_\_\_\_

### Employer Information

Name of Business: \_\_\_\_\_ Supervisor: \_\_\_\_\_  
Street Address: \_\_\_\_\_ Phone #: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_ Cell #: \_\_\_\_\_

### Employer Agreement

*I agree to employ the above named student for 10 or more hours per week at my place of employment and recognize that failure to do so will result in his/her removal from the Work Early Release Program.*

Employer Signature: \_\_\_\_\_ Date: \_\_\_\_\_

-----Administrative Use Only-----

Class Schedule, Work Schedule, or Copy of Pay Stub Attached  
 Approved  Not Approved - Reason \_\_\_\_\_

Administrator Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Notes \_\_\_\_\_  
\_\_\_\_\_

# Appendix E: Schedule Change Request Form



# WEST ALLEGHENY HIGH SCHOOL

## SCHEDULE CHANGE REQUEST FORM



STUDENT NAME: \_\_\_\_\_ GRADE: \_\_\_\_\_

CLASS STUDENT WOULD LIKE TO TRY TO DROP:

\_\_\_\_\_

TEACHER AGREES      TEACHER INITIALS \_\_\_\_\_  
 TEACHER DISAGREES\* \_\_\_\_\_

CLASS STUDENT WOULD LIKE TO TRY TO ADD:

\_\_\_\_\_

TEACHER AGREES      TEACHER INITIALS \_\_\_\_\_  
 TEACHER DISAGREES\* \_\_\_\_\_

**\*TEACHER COMMENTS (required if teacher(s) disagrees):** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**PARENT NAME (please print):** \_\_\_\_\_

**PARENT SIGNATURE:** \_\_\_\_\_

**DATE SIGNED BY PARENT:** \_\_\_\_\_

**DATE REQUEST SUBMITTED TO GUIDANCE:** \_\_\_\_\_

**\*\*STUDENTS MAY NOT REQUEST A SPECIFIC LUNCH PERIOD OR A SPECIFIC TEACHER.**

**\*\*TO REQUEST A CHANGE FOR ANY CLASS STUDENTS MUST HAVE THIS FORM SIGNED BY THEIR PARENT/GUARDIAN AND HAVE THE TEACHER BOX CHECKED AND INITIALED.**

**\*\*PLEASE BE PATIENT – EACH STUDENT’S COUNSELOR WILL REVIEW SCHEDULE CHANGE REQUESTS AS SOON AS POSSIBLE. NOT ALL REQUESTS TO CHANGE A SCHEDULE WILL BE GRANTED. STUDENTS SHOULD NOT GO TO THE NEW CLASS UNTIL THE SCHEDULE HAS BEEN OFFICIALLY CHANGED BY THE SCHOOL COUNSELOR.**

-----  
 COUNSELOR AND ADMINISTRATOR USE ONLY

CHANGE APPROVED      DATE CHANGE MADE: \_\_\_\_\_      COUNSELOR INITIALS: \_\_\_\_\_

CHANGE NOT APPROVED – REASON: \_\_\_\_\_

\_\_\_\_\_

ADMINISTRATOR SIGNATURE: \_\_\_\_\_      DATE: \_\_\_\_\_



# WEST ALLEGHENY HIGH SCHOOL

## SCHEDULE CHANGE REQUEST FORM



### 2019-2020 School Year Schedule Change Procedures

#### Elective Change Procedure

1. Elective CHANGE REQUESTS for full year and first semester courses will be considered for the first 6-day rotation of the school year ONLY. Second semester elective change requests will be considered for the first 6-days of the second semester. Elective change requests require a parent signature and must be submitted to the high school Guidance Office via the official schedule change request form. Approval of the change does not guarantee that a change can be made. Changes will be made ONLY if they do not overload ANY other classes.
2. If the original elective course is dropped within this timeframe, it will NOT appear on the student's transcript.
3. Students are responsible for making up any missed work in the new elective course.

#### Academic Level Change Procedures

1. Academic level CHANGE REQUESTS to move to a **higher** level course will be considered from the first day of school through the 12<sup>th</sup> day of school.
2. Academic level CHANGE REQUESTS to move to a **lower** level course will be considered after the 12<sup>th</sup> day of the course until the midterm of the first marking period and will require administrative approval. Please be aware that **in the event that an ACADEMIC LEVEL change is approved, the original course WILL appear on the student's transcript with a "W". "W" grade marks do not affect a student's GPA.** Students are responsible for making up any missed work in the new course.
3. Students are required to work to their fullest potential prior to making a request for any schedule change. Students must demonstrate that they have attempted to fulfill all course expectations, e.g., completion of all assignments, seeking extra help, and have met all other conditions established by the teacher.
4. No academic level change will be considered without teacher input. If both the teacher and parent agree to the change, it will be considered. When a teacher determines it is in the student's best interest to remain in the course, a parent conference will be held before any further consideration is given to the request. Some changes may require administrative approval.
5. All academic level change requests require a parent signature and must be submitted to the high school Guidance Office via the official schedule change request form. Approval of the change does not guarantee that a change can be made. Changes will be made ONLY if they do not overload ANY other classes.

#### Dropping Courses

- Students must exercise caution before dropping courses to ensure that graduation, future goal, and NCAA requirements (when eligible) are being met.
  - Students must maintain a minimum of 7.00 credits per year unless otherwise permitted by a Principal through an approved academic plan.
1. During the first nine weeks of school, students may request to drop a course. **IF the request is approved, the original course will remain on the student's transcript with a "W", but the "W" will not affect the student's GPA. Dropping a course requires administrative approval.**
  2. After the first nine weeks of school through the end of the year, students may request to drop a course. **IF the request is approved, the student will receive a grade of "WF" for Withdrawal/Fail in the original course. The "WF" will be averaged into the student's GPA as a failing grade. Dropping a course requires administrative approval.**
  3. All requests to drop a course require a parent signature and must be submitted to the high school Guidance Office via the official schedule change request form. **Dropping a course requires administrative approval.**