



WEST ALLEGHENY HIGH SCHOOL

23 24



PROGRAM OF STUDIES



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An Introduction to the 2023-2024 Program of Studies from the Superintendent of Schools and the High School Principal

West Allegheny School District is excited to present our 2023-2024 Program of Studies. Each year we revise our academic offerings to align courses and programs to student interests and up-and-coming career fields. Our academic programming includes a variety of opportunities for our students to engage in meaningful learning experiences. We encourage our students to review the 2023-2024 Program of Studies with their families to determine which courses align best to their Career and College Pathway to provide the most relevant and personalized high school plan. We also encourage all students and families to review our graduation requirements and the scheduling process together. The scheduling timeline also includes several opportunities for you to learn more about course offerings and the scheduling timeline through in-person and virtual sessions with our administrative and counseling team. Our Counseling Department is happy to help support you with any individual questions or concerns you may have.

During the District's Curriculum Review Process for each department, new courses are recommended for the Program of Studies. Beginning with the 2023-2024 school year, the following are new in person courses:

BUSINESS, COMPUTER, & INFORMATION TECHNOLOGY

- Business, Law, & Society
- Cybersecurity Risk Management
- Management
- Managerial Accounting
- Marketing
- Principles of Business
- Programming in C# & C++
- Technology Skills

ENGINEERING & TECHNOLOGY EDUCATION

- Environmental Sustainability
- Technical Theatre: Set Building

ENGLISH LANGUAGE ARTS

- Creative Writing
- Film Studies

FAMILY & CONSUMER SCIENCES

- Technology for Aspiring Teachers
- West A Café

SOCIAL STUDIES

- Honors American Government

MATHEMATICS

- AP Precalculus
- Personal Finance

PERFORMING ARTS

- Technical Theater: Crew

PHYSICAL EDUCATION & HEALTH

- Aquatics & Lifeguarding
- Dance Company
- Partners in Physical Education

USMC JUNIOR ROTC

- Foundations of Leadership

Additionally, we have added five (5) new Early College in High School Academy (ECIHTA) programs:

1. Robert Morris University Concurrent Enrollment: SPECIAL EDUCATION (accelerated Bachelor of Science)
2. Pittsburgh Technical College Dual Enrollment: ROBOTICS AND AUTONOMOUS ENGINEERING TECHNOLOGY (accelerated Associate of Science)
3. Rosedale Technical College Dual Enrollment: AUTOMOTIVE TECHNOLOGY (accelerated Associate in Specialized Technology)
4. Rosedale Technical College Dual Enrollment: COLLISION REPAIR TECHNOLOGY (accelerated Associate in Specialized Technology)
5. Rosedale Technical College Dual Enrollment: DIESEL TECHNOLOGY (accelerated Associate in Specialized Technology)

The 2023-24 Program of Studies provides an overview of the District's six Career and College Pathways aligned to Pennsylvania's sixteen career clusters. It showcases the **28** early college in high school programs available to students along with our other hallmark programs such as JROTC and Career and Technical Education. It also includes the Graduation Requirements for each graduating class.

Best wishes to all students as you prepare for the 2023–2024 school year.

Dr. Jerri Lynn Lippert
Superintendent

Dr. Cheryl McHone
High School Principal



2023-2024 Program of Studies

Course Selections for Grades 9-12

West Allegheny Board of School Directors:

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Mrs. Tracy Pustover, Vice President
Mr. George Barthia
Mr. Joel Colinear
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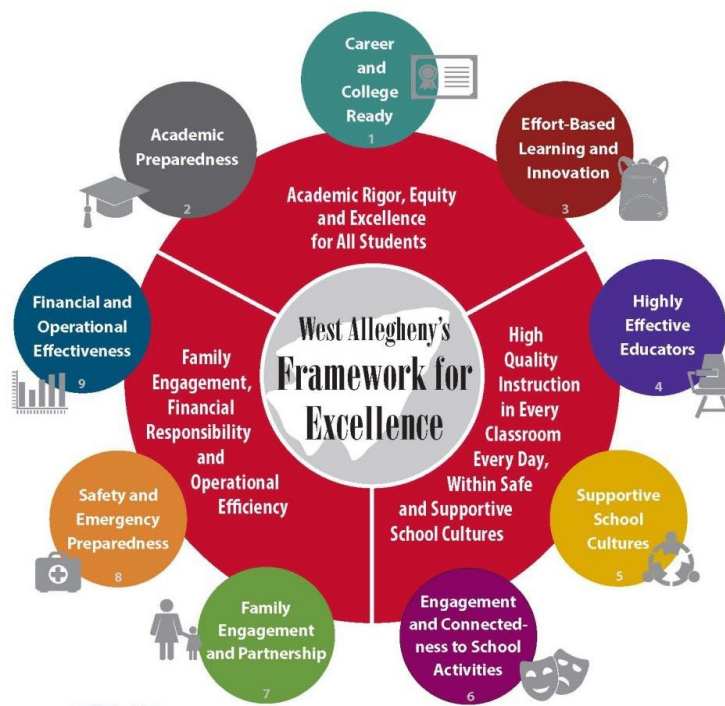
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Our Mission

The mission of West Allegheny School District, a leader in quality education, is to ensure that each student acquires the necessary knowledge and skills to be a responsible citizen, prepared for life-long learning and employment; this is accomplished by providing meaningful and personally challenging learning experiences within a safe, nurturing environment in partnership with family and community.

Our Vision

The West Allegheny School District will create a learning environment in which students maximize their potential and achieve success in a cooperative partnership with students, parents, staff, administration, and community through a positive, supportive, caring climate which promotes the dignity of all individuals.



GOAL 1: Career and College Ready: All students will be career and college ready with a viable post-secondary plan and ability to persist.

GOAL 2: Academic Preparedness: All students will be academically prepared demonstrating content area mastery at all grade levels.

GOAL 3: Effort-based Learning and Innovation: All students will have a growth mindset demonstrating resiliency, perseverance and intellectual curiosity. All students will have access to innovative and relevant academic programming.

GOAL 4: Highly Effective Educators: All students will have educators committed to fostering active engagement, empowerment, productive disposition, critical thinking and the love of learning in and out of their classrooms.

GOAL 5: Supportive School Cultures: All students will be educated in safe and supportive school cultures fostering wellness, acceptance and the ability to learn and thrive free of bullying, harassment and other negative influences.

GOAL 6: Engagement and Connectedness to School Activities: All students will have opportunities to engage in school-based activities that support and enhance connectedness to school and develop positive relationships with staff.

GOAL 7: Family Engagement and Partnership: The District will foster productive parent engagement in partnership to support student success and connectedness to school.

GOAL 8: Safety and Emergency Preparedness: The District will prepare all students and staff for emergency situations and ensure all facilities are well-maintained and equipped with enhanced security measures.

GOAL 9: Financial and Operational Effectiveness: The District is committed to maintaining program enhancements in academics, arts and athletics with fiscal responsibility and operational efficiency, capitalizing on cost-saving measures that are repurposed to support student success.



WEST ALLEGHENY SCHOOL DISTRICT

A Tradition of Excellence ... A Vision for Tomorrow

Dear West Allegheny High School Students and Families,

We are pleased to share our 2023-2024 Program of Studies. Our Program of Studies outlines our course offerings, course sequencing, and requirements for graduation to help guide you throughout your high school experience. The purpose of our Program of Studies is to serve as a comprehensive document that includes multiple opportunities and programming options to best prepare you to meet your individual post-secondary goals and to become career and/or college ready by the time you graduate.

West Allegheny High School is dedicated to ensuring that every student is career and/or college ready with a viable post-secondary plan upon graduation. Our Program of Studies is designed to connect you with course offerings and programs to meet your career and college goals. WAHS offers six (6) Career and College Pathways: (1. Health and Natural Sciences 2. Engineering, Manufacturing, Technology & Trade 3. Arts, Communications & Hospitality 4. Business Administration and Finance 5. Education, Human and Public Services 6. Information Technology). The Career and College Pathways provide recommended course offerings to guide your course selections. High school is a great opportunity for students to not only get connected to courses that align with their post-secondary goals, but to also try new courses from other career pathways! As you consider what pathway you want to take in life — whether that be to enter 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.

Research supports that students taking a college level course in high school are 50% more likely to graduate from college. To that end, students not only have the opportunity to engage in college-level course work but also earn college credits while in high school. Within the Early College in High School Academies (ECIHSAs), students can earn industry credentials, certificates, associate degrees, and/or accelerate the completion of a bachelor's degree or master's degree as outlined in the corresponding program. Our early college programs continue to expand and offer a variety of programs. New this year, students may choose to participate in our programs in Special Education, Robotics and Autonomous Engineering Technology (RAET), Automotive Technology, Collision Repair Technology, or Diesel Technology. While engaging in these programs at WAHS, students are able to develop their college transcripts and progress towards a degree with one of our post-secondary partners (Community College of Allegheny County, Robert Morris University, Pittsburgh Technical College, Community College of Beaver County, and Rosedale Technical College). Our concurrent enrollment ECIHSA courses, taught by West Allegheny teachers, are eligible for both high school and college credit, saving our families thousands of dollars in tuition fees! More information regarding our ECIHSA programs and the opportunities available to earn college credits while attending WAHS is included in the pages to follow.

As you embark on this exciting journey, our team of school counselors and administrators are available to answer your questions and support you throughout your high school career as you prepare for your post-secondary endeavors.

Sincerely,

Dr. Cheryl McHone
Lead Principal

Dr. Katharine Roche
Academic Principal

Mr. Samuel Taylor
Assistant Principal

Mrs. Toni Baldanzi
Supervisor of Ancillary Programs

Dr. Jerri Lynn Lippert
Superintendent

Dr. Christopher Shattuck
*Assistant Superintendent
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*Assistant to the
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Ms. Tammy Adams
*Assistant to the Superintendent for
Special Education and Student
Services*

Scheduling Timeline 2023-2024

Date:	Time:	Who:	What:	Where:
February 9, 2023	During the school day	8 th grade students	Rising Freshman Scheduling Part 1: Pathways & Programs Overview	Middle School
February 9, 2023	5:00 pm	8 th grade families	Rising Freshman Families meeting to learn about the scheduling process	HS Auditorium and live streamed
February 10, 2023	During the school day	9 th -11 th grade students	Choosing Wisely Presentation	In students scheduled class (Virtual option for WAVA/Hybrid)
February 13, 2023	5:00 pm	8 th -11 th grade families	Choosing Wisely: Program of Studies Presentation for Families	HS Auditorium and additional small group spaces for break-out sessions
February 14, 2023	During the school day	8 th grade students	Rising Freshman Scheduling Part 2: Scheduling Workshop	Middle School
February 15, 2023	8:00 am	8 th grade families	Rising Freshman Families Programs & Pathways Scheduling Q & A	HS Media Center and live streamed
February 13–17, 2023	On going	8 th -11 th grade families	Student Course Selection Review and Teacher Recommendation	In respective schools
February 17, 2023	8:00 am	8 th -11 th grade families	HS Admin hosting Coffee & Conversations about scheduling	Virtual Teams Meeting
February 17, 2023	9:00 am	8 th grade families	MS/HS Admin hosting Coffee & Conversations about scheduling	Virtual Teams Meeting
February 17, 2023	8 th & 9 th Periods	8 th grade students	Rising Freshman Scheduling Part 3: Question and Answer Session	Middle School
February 21, 2023	During the school day	9 th -11 th grade students	Course request and career planning survey	In students scheduled class (Virtual option for WAVA/Hybrid)
February 22, 2023	During the school day	8 th grade students	Rising Freshman Scheduling Part 4: Course request and career planning survey	In students scheduled class (Virtual option for WAVA/Hybrid)
February 23 – March 3, 2023	On going	8 th -11 th grade families	School counselors review of course requests, pathways, academic planning, and schedules with students	Counselors will communicate individual meetings with students
March 29 – June 14, 2023	On going	8 th -11 th grade families	Registration Window for Summer Enrichment Courses (WAVA)	
April 12, 2023	On going	8 th -11 th grade families	Summer Enrichment Courses Begin (WAVA)	
May 24 – June 21, 2023	On going	8 th -11 th grade families	Registration Window for Summer Credit Recovery Courses (WAVA)	
May 11 – 12, 2023	During the school day	8 th grade students	TRUE U for Rising Freshmen	High School
May 31, 2023	On going	8 th -11 th grade families	Credit Recovery Courses Begin (WAVA)	
May 31, 2023	During the school day	8 th -12 th grade families	Senior Celebration and 2023-24 Schedule Move Up Day	High School
June 1 – 8, 2023	On going	8 th -11 th grade students	Schedule change request window NO REQUESTS WILL BE COLLECTED OUTSIDE OF THIS WINDOW	Must be submitted using Schedule Change Request form (https://forms.gle/H8W4qxs3Q1bnxV6u8)
June 22, 2023 - August 3, 2023	On going	Entire District	Skyward Inactive due to Maintenance	
August 2, 2023	On going	8 th -11 th grade families	Summer Enrichment & Credit Recovery Courses Due (WAVA)	
August 3, 2023	4:00 pm	All students	Final Student Schedules Released in Skyward	Skyward

Requirements for Promotion and Graduation

A minimum of 26.25 total credits, as outlined on the following pages, are required to be earned 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 unless otherwise approved by a principal.*

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 <u>minimum total number of credits</u> 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	5.00
10	10.00
11	17.25
Graduation	26.25

These requirements are established by the Pennsylvania Department of Education and the West Allegheny School District. 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 our Early College in High School Academy (ECIHSA)
⌘⌘	Awaiting final approval from our higher education partner
✓	Course eligible for industry-based credential
c	Course may count toward core course credit required for graduation – see the graduation requirements page for more information
(S)	Semester Course

Requirements for Promotion and Graduation

Full-Time West Allegheny Students

Requirement Category	Min Credit	Minimum Course Requirements	4 th year Course Options	
English	4	English 9 or Honors English 9* English 10 or Honors English 10* Eng 11, College Eng 11, or AP Eng Lang** Course from 4 th Year Course Options	English 12 College Readiness English 12 AP English Lit & Comp** Creative Writing AP Research **	Oral Communications ** Classic & Modern Lit ** Film Studies ** <i>Approved course from an ECIHSA Dual Enrollment partner</i>
Mathematics	4	Algebra 1 Algebra 2 or HEC Algebra 2** Geometry Course from 4 th Year Course Options	Introduction to Algebra Honors Trig & Precalculus* AP Precalculus** Discrete Math Personal Finance** AP Statistics** AP Calculus AB** AP Calculus BC** Intro Data Analy w/Python**	AP Comp Sci Principles** AP Computer Science A** Financial Accounting** Managerial Accounting** AP Economics** 2D/3D Game Development** Programming in C# & C++** <i>Approved course from a ECIHSA Dual Enrollment partner</i>
Science	4	Biology w/Lab or Honors Biology w/Lab* Concept Chem or Honors Chemistry* Concept Physics, Physics, AP Physics 1** Course from 4 th Year Course Options	AP Biology** AP Chemistry** AP Physics 2** Forensics Science Honors Anatomy & Physiology* Exercise Science Environmental Sustainability Virtual Reality** Digital Electronics **	Green Energy (WAVA) Health Sciences (WAVA) Forestry & Natrl Res (S1-WAVA) Intro to Astronomy (S-WAVA) Intro to Marine Bio (S-WAVA) Intro to Vet Science (S2-WAVA) <i>Approved course from a ECIHSA Dual Enrollment partner</i>
Social Studies	4	U.S. History or Honors U.S. History* Amer Gov, Hon Amer Gov*, AP US Gov** World Cultures or AP World History** Course from 4 th Year Course Options	Criminal Justice & Invest** AP Psychology**+ Honors Psychology & Sociology* Sociology of Sports (S) Current Affairs (S) Hon Holocaust & Genocide Stud* Hon African Amer & Multicult St* AP Seminar** Spanish III HEC Spanish IV** AP Spanish Lang & Culture** German III HEC German IV** AP German Lang & Culture**	Business, Law, & Society ** Game Prod & Marketing** USMC Junior ROTC IV French III (WAVA) French IV (WAVA)* AP French Lang & Cul (WAVA)** AP U.S. History (WAVA)** Women's Studies (S-WAVA) Intro to World Religion (S-WAVA) Intro to Military Car (S-WAVA) Intro to Archaeology (S-WAVA) <i>Approved course from a ECIHSA Dual Enrollment partner</i>
Physical Education	0.5	Physical Education, Physical Conditioning, Dance, Dance Company, Aquatics and Lifeguarding*, Exercise Science		
Health	0.5	Health 9 & Health 10		
Elective		9.25		
State Assessment		Proficient or Advanced on the Keystone Exams in Literature, Algebra I, and Biology OR Demonstration of proficiency through an alternate pathway		
Career Readiness		Completion of Civics Exam taken during American Government, Honors American Government, AP US Government & Politics Successful completion of the Career and Education Work Standards Portfolio including Career Seminar requirements Successful completion of Industry Based Learning Experience		
Total Required		26.25		

Requirements for Promotion and Graduation

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 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 they attended previously would default to the 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
English	4	English 9 or Honors English 9* English 10 or Honors English 10* English 11, College Readiness English 11, or AP English Language & Composition** Additional Course from 4 th Year Course Options (see page 6)
Mathematics	4	Algebra 1 Algebra 2 or HEC Algebra 2** Geometry Additional Course from 4 th Year Course Options (see page 6)
Science	3	Biology with Lab or Honors Biology with Lab* Conceptual Chemistry, Honors Chemistry*, or Chemical Properties (PWCTC) Conceptual Physics, Physics, AP Physics 1**, or Principles of Tech (PWCTC)
Social Studies	3	U.S. History, Honors U.S. History*, or US History II (PWCTC) American Gov, Honors American Gov*, AP US Gov & Politics**, or Civics (PWCTC) World Cultures, AP World History**, or World Cultures (PWCTC)
Physical Education	0.5	Physical Education, Physical Conditioning, Dance, Dance Company, Aquatics and Lifeguarding*, Exercise Science
Health	0.5	Health 9 & Health 10
Elective (at Parkway CTC)	12.25	
State Assessment	Proficient or Advanced on the Keystone Exams in Literature, Algebra I, and Biology OR Demonstration of proficiency through an alternate pathway	
Career Readiness	Completion of Civics Exam taken during American Gov, Honors American Gov, AP US Gov & Politics, Civics (PWCTC) Successful completion of the Career and Education Work Standards Portfolio including Career Seminar requirements Successful completion of Industry Based Learning Experience	
TOTAL	26.25	

Requirements for Promotion and Graduation

Standardized Assessment Timeline

Part of Career and College Readiness is having the ability to demonstrate mastery of skills and standards. The standardized assessments available to students at West Allegheny High School further develop learning and validate the knowledge gained throughout a student's high school career.

Summary of Assessments

Algebra Keystone Exam	End of course – Algebra 1 or Conceptual Algebra	Required
Biology Keystone Exam	End of course – Biology or Honors Biology	Required
Literature Keystone Exam	End of course – English 10 or Honors English 10	Required
Civics Exam	Embedded in American Government & AP US Government & Politics courses	Required
PSAT 8/9	Mid-October of Freshmen Year	Required
PSAT	Mid-October of Sophomore Year	Required
PSAT/NMSQT	Mid-October of Junior Year	Recommended
SAT	Junior and/or Senior Year	Recommended
ACT	Junior and/or Senior Year	Recommended
ASVAB	Junior and/or Senior Year	Recommended ₁
Advanced Placement (AP) Exams	End of Course – Early May	Required
CCAC Mathematics Placement Test	Summer before taking corresponding course	Required ₂
CCAC Reading Placement Test	Summer before taking corresponding course	Required ₂
Industry Certification Exams	Embedded in corresponding courses	Required

1 - Required for students who have not met a Keystone proficiency pathway.

2 - Required for students who elect to take the corresponding course for CCAC credit.

State Mandated Assessments

Algebra Keystone Exam	End of course (Algebra 1 or Conceptual Algebra)	Required
The Algebra Keystone Exam is an end-of-course state assessment designed to evaluate proficiency in Algebra. As part of the graduation requirements, each student must demonstrate proficiency on the Algebra Keystone Exam, or fulfill one of the other pathways provided, to earn a diploma from West Allegheny (see the <i>State Assessment Graduation Requirement Pathways</i> on the following pages for more details). Each student is provided the opportunity to take the Keystone Exams in May of the year they are taking a Keystone affiliated course. A student who previously completed a Keystone-related course but did not take the Keystone Exam may also participate in testing for graduation purposes. Additionally, any student who has taken a Keystone Exam and did not score Proficient may re-take the exam.		
Biology Keystone Exam	End of course (Biology or Honors Biology)	Required
The Biology Keystone Exam is an end-of-course state assessment designed to evaluate proficiency in Biology. As part of the graduation requirements, each student must demonstrate proficiency on the Biology Keystone Exam, or fulfill one of the other pathways provided, to earn a diploma from West Allegheny (see the <i>State Assessment Graduation Requirement Pathways</i> on the following pages for more details). Each student is provided the opportunity to take the Keystone Exams in May of the year they are taking a Keystone affiliated course. A student who previously completed a Keystone-related course but did not take the Keystone Exam may also participate in testing for graduation purposes. Additionally, any student who has taken a Keystone Exam and did not score Proficient may re-take the exam.		
Literature Keystone Exam	End of course (English 10 or Honors English 10)	Required
The Literature Keystone Exam is an end-of-course state assessment designed to evaluate proficiency in Literature. As part of the graduation requirements, each student must demonstrate proficiency on the Literature Keystone Exam, or fulfill one of the other pathways provided, to earn a diploma from West Allegheny (see the <i>State Assessment Graduation Requirement Pathways</i> on the following pages for more details). Each student is provided the opportunity to take the Keystone Exams in May of the year they are taking a Keystone affiliated course. A student who previously completed a Keystone-related course but did not take the Keystone Exam may also participate in testing for graduation purposes. Additionally, any student who has taken a Keystone Exam and did not score Proficient may re-take the exam.		

Civics Exam	Embedded in American Government & AP US Government & Politics courses	Required
The Civics Exam is an end-of-course assessment, required by the state, designed to evaluate a student's civic knowledge. As part of West Allegheny graduation requirements, every student must complete the Civics exam, which is embedded within the American Government and AP US Government & Politics curriculum. Most students will complete this exam during their sophomore year of high school. Any student that does not take American Government or AP US Government & Politics while attending West Allegheny High School will be required to complete the Civics Exam prior to being eligible to graduate.		

National Assessments

PSAT 8/9	Mid-October of Freshman Year	Required
The Preliminary SAT (PSAT) 8/9 measures critical reading skills, math problem-solving skills, and writing skills through three sections: Reading, Writing and Language, and Math. In mid-October, all students in ninth grade take the PSAT 8/9 (fees covered by the District) as part of our Annual Career and College Assessment Day. By assessing the student's current knowledge, the PSAT 8/9 serves as a gauge for college readiness. Early experience with this assessment allows each student to connect to the free resource, Khan Academy, with access to individualized practice.		
PSAT	Mid-October of Sophomore Year	Required
The Preliminary SAT (PSAT) measures critical reading skills, math problem-solving skills, and writing skills through three sections: Reading, Writing and Language, and Math. In mid-October, all students in tenth grade take the PSAT (fees covered by the District) as part of our Annual Career and College Assessment Day. By assessing the student's current knowledge, the PSAT serves as a gauge for college readiness. Early experience with this assessment allows each student to connect to the free resource, Khan Academy, with access to individualized practice.		
PSAT/NMSQT	Mid-October of Junior Year	Recommended
The Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT) is the same exam as the PSAT, but also serves as the National Merit Scholarship Qualifying Test for juniors in a nationwide competition for recognition, awards, and scholarships. The PSAT/NMSQT is available to West Allegheny students in eleventh grade as part of our Annual Career and College Assessment Day in mid-October. Any student who chooses to take the PSAT/NMSQT must register and assume the related costs. Registration links can be found on the College Admissions page of the WAHS website under Guidance. College Board provides fee waivers for juniors taking the PSAT/NMSQT based on federal aid status.		
SAT	Junior and/or Senior Year	Recommended
The SAT is an entrance exam used by many colleges and universities and includes three parts: Reading, Writing and Language, and Math. The exam is scored on a scale from 400-1600. West Allegheny High School offers the SAT School Day in mid-October and March. National test dates are offered at West Allegheny in November and May. Additional national test dates (offered at West Allegheny in November and May) are also offered by SAT and can be found on the College Board website (www.collegeboard.com). Any student who chooses to take the SAT is responsible for the related costs and must register through the College Board (www.collegeboard.com). College Board provides fee waivers for SAT national test dates or fee reductions for SAT school day testing based on federal aid status.		
ACT	Junior and/or Senior Year	Recommended
The ACT is an entrance exam used by many colleges and universities. This test measures a student's ability in English, Mathematics, Reading, Science Reasoning, and Writing (optional) and is scored on a standard scale from 1 to 36. West Allegheny High School offers the ACT School Day in October and March. Additional national test dates are also offered by ACT and can be found on their website (www.act.org). It is recommended that any student interested in taking the ACT for admission purposes do so as a junior or early in their senior year. Juniors are also encouraged to take the test. Any student who chooses to take the ACT is responsible for the related costs and must register through ACT (www.act.org). ACT provides fee waivers for national test dates (not school day) based on federal aid status.		
ASVAB	Junior and/or Senior Year	Recommended ₁
The "Student" ASVAB (Armed Services Vocational Aptitude Battery) Test is an aptitude test that provides each student with insight into potential career areas that align to the student's strengths. This test provides each student with feedback in four critical areas: Arithmetic Reasoning, Word Knowledge, Paragraph Comprehension, and Mathematics Knowledge. The ASVAB is available to any junior or senior student who wishes to take it during our Annual Career and College Assessment Day in mid-October. After scores are returned to each student, a representative from the Military Entrance Processing Service (MEPS) will return to offer a guided analysis of the results. While this exam is administered by the military, there is no service obligation, scores, or information will be shared with the military unless requested by the student.		

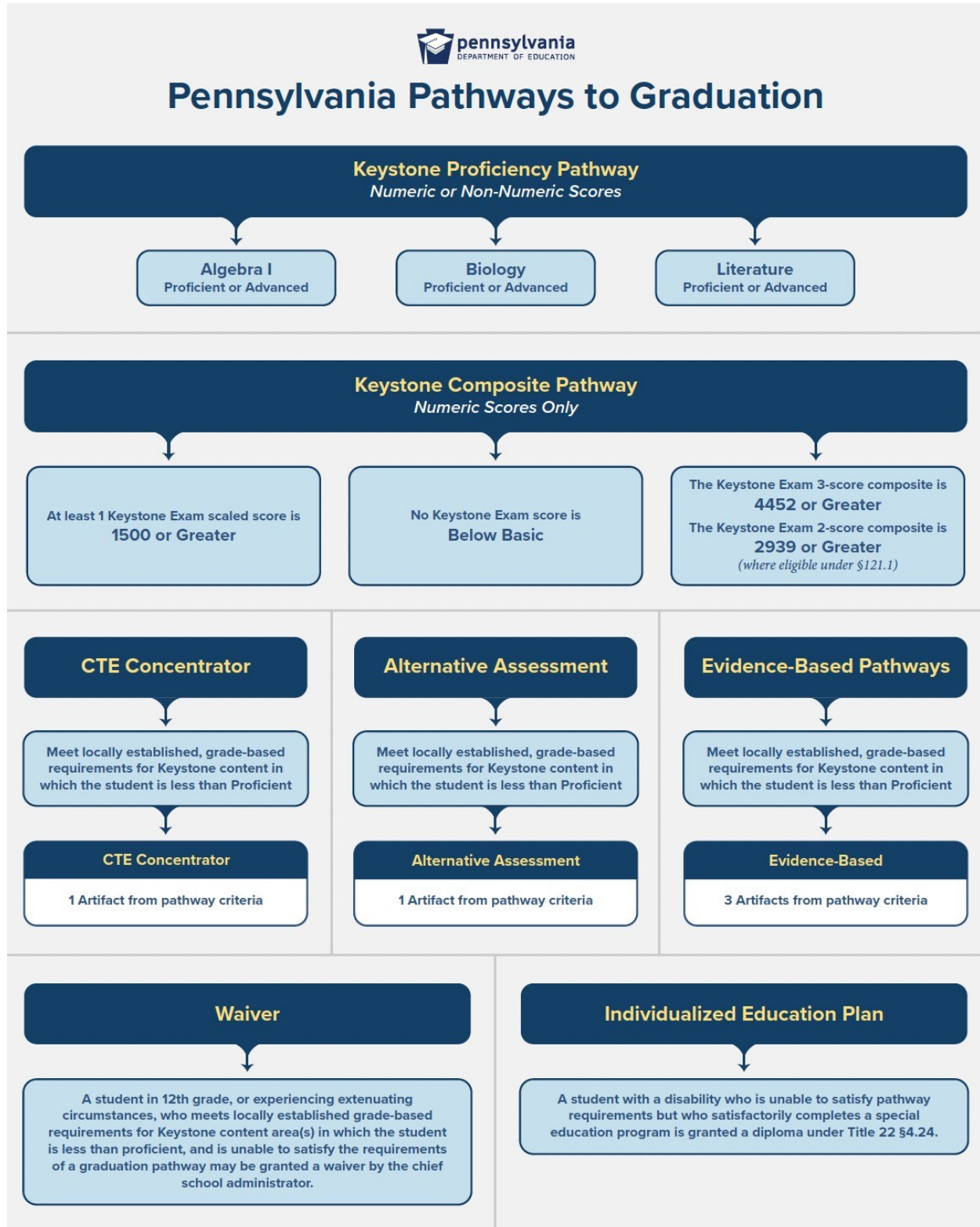
Course Specific Assessments

Advanced Placement (AP) Exams	End of Course – Early May	Required₂
West Allegheny High School currently offers 23 Advanced Placement courses aligned to the College Board curriculum (see full list in the Weighted Courses section). These courses are designed to provide students with a rigorous college level course experience while still in high school. Students participating in AP courses are required to take the corresponding AP exam in May (paid for by the district). All AP exams are scored on a scale of 1 – 5. Research shows that students who have completed an AP course and receive at least a 2 on the exam have greater success in their first year of studies after high school. Many colleges and universities accept AP exam scores of 3 or higher for college credit and/or advanced placement into upper-level college courses.		
CCAC Mathematics Placement Test	Summer before taking corresponding course	Required₂
To be eligible to take HEC Algebra II, AP Computer Science Principles, or AP Physics 1 for CCAC credit through West Allegheny's Early College in High School Academy (ECIHS), a student must first earn a qualifying score on the CCAC Mathematics Placement Test. It is required that each student completes this test prior to the start of the school year. Qualifying scores and testing procedures are determined by CCAC.		
CCAC Reading Placement Test	Summer before taking corresponding course	Required₂
To be eligible to take AP English Language & Composition, HEC Spanish IV, or HEC German IV for CCAC credit through West Allegheny's Early College in High School Academy (ECIHS), a student must first earn a qualifying score on the CCAC Reading Placement Test. It is required that each student completes this test prior to the start of the school year. Qualifying scores and testing procedures are determined by CCAC.		
Industry Certification Exams	Embedded in corresponding courses	Required
Any student who elects to take a course in which an industry credential is available is required to complete the corresponding certification exams throughout the course of the school year. These exams, paid for by the district, provide the student with the opportunity to gain Industry Credentials while in high school. The testing dates for each certification exam will be set by the instructor of each course.		

Requirements for Promotion and Graduation

State Assessment Pathways

In accordance with ACT 158, Pennsylvania’s statewide graduation requirements, West Allegheny School District has aligned its graduation requirements to ensure the success of all students. Through one of the five pathways below, students will demonstrate that they are career, college, and community ready as they embark upon their post-secondary plans. All students will engage in the Algebra I, Biology, and Literature Keystone Exams upon completion of the aligned courses. If a student does not meet graduation requirements through the Keystone Proficiency Pathway, a student must meet the requirements through another pathway outlined below. Additional information regarding the five pathways can be found in Appendix B: Pathways to Graduation Guide.



Pathway Criteria

CTE Concentrator	Alternative Assessment	Evidence-Based
1 Artifact	1 Artifact	3 Artifacts consistent w/student goals ONE or more from Section One No more than TWO from Section Two
<p>Industry-based competency certification</p> <hr/> <p>Likelihood of industry-based competency assessment success</p> <hr/> <p>Readiness for continued engagement in CTE Concentrator program of study</p>	<p>Attainment of one alternative assessment score or better: ACT (21), ASVAB AFQT (31), PSAT/NMSQT (970), or SAT (1010)</p> <hr/> <p>Attainment of Gold Level or better on ACT WorkKeys</p> <hr/> <p>Attainment of 3 or better on AP Exam(s) related to each Keystone content area in which less than Proficient</p> <hr/> <p>Attainment of 4 or better on IB Exam(s) related to each Keystone content area in which less than Proficient</p> <hr/> <p>Successful completion of concurrent enrollment course(s) related to each Keystone content area in which less than Proficient</p> <hr/> <p>Successful completion of a pre-apprenticeship program</p> <hr/> <p>Acceptance into accredited, non-profit Institution of Higher Education (IHE) 4yr program for college-level coursework</p>	<p>Section 1</p> <hr/> <p>Attainment of 630 or better on any SAT Subject Test</p> <hr/> <p>Attainment of Silver Level or better on ACT WorkKeys</p> <hr/> <p>Attainment of 3 or better on any AP Exam</p> <hr/> <p>Attainment of 3 or better on any IB Exam</p> <hr/> <p>Successful completion of any concurrent enrollment or postsecondary course</p> <hr/> <p>Industry-recognized credentialization</p> <hr/> <p>Acceptance into accredited, non-profit Institution of Higher Education (IHE) for college-level coursework in an other-than-4yr program</p> <hr/> <p>Section 2</p> <hr/> <p>Attainment of Proficient or Advanced on any Keystone Exam</p> <hr/> <p>Successful completion of a service-learning project</p> <hr/> <p>Letter guaranteeing full-time employment or military enlistment</p> <hr/> <p>Completion of an internship, externship, or cooperative education program</p> <hr/> <p>Compliance with NCAA Division II academic requirements</p>

Requirements for Promotion and Graduation

Career Readiness Graduation Requirements

West Allegheny High School's primary goal is to ensure that every student is career and/or college ready with a viable post-secondary pathway at the time of graduation. This objective is rooted in providing opportunities for each student to develop a deep knowledge of career opportunities and pathways, while allowing for experiences focused on the development of workforce habits and skills. The West Allegheny School Board of Directors has approved career readiness graduation requirements to meet the requirements established by the Pennsylvania Department of Education (PDE) and ensure that all West Allegheny High School graduates are career and/or college ready. This requirement is non-credit bearing and has three parts, which include:

1) Successful completion of the Civics exam

According to PA-Act 35, all students are required to complete a locally developed Civics exam. West Allegheny has embedded this requirement in our American Government, AP US Government & Politics, and Civics (PWCTC) courses, which are typically taken by students during their sophomore year of high school.

2) Successful completion of a Career Education and Work Standards portfolio by the end of a student's junior year

The portfolio consists of 20 artifacts culminating from three grade bands: 3rd-5th, 6th-8th and 9th-11th and will contain artifacts of each strand of the CEW Standards, including work samples, written reflections, and career-focused course work. A student's career portfolio culminates with the completion of eight (8) career artifacts during Career Seminar, which is embedded in World Cultures and AP World History courses during a student's junior year.

3) Successful completion of one of the Industry Based Learning Indicators by the end of the first quarter of a student's senior year

All West Allegheny students are required to complete and provide evidence of at least one of the following Industry-Based Learning Indicators by the end of the first quarter of their senior year:

1. Earn an approved industry recognized credential aligned with his/her career path (e.g. Network Pro, ServSafe, Pet First Aid)
2. Participate in a school approved career mentoring experience (e.g. Child Development, JROTC, Future Educators of America)
3. Participate in a substantial service-learning experience offered through the school and in partnership with an approved outside agency (e.g. Stand Together, Students in Action, Varsity iLead)
4. Demonstrate 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
5. Complete a work-based learning experience through three (3) job shadow experiences lasting approximately three (3) hours each for a total of nine (9) hours

The Career Readiness Graduation Requirements are outlined in the table below by grade level. Students who do not participate in the identified graduation requirements will be required to complete alternate assignments.

Grade	Requirement
9	Post-Secondary Institution Visit
9	Freshman Transition Program Activities
9	Career Exploration Activities
10	Civics Exam
10	Post-Secondary Institution Visit
10	Strengths Explorer Lesson
10	Student Services Lesson: Leadership Inventory
11	WA Career & College Fair
11	Choosing Wisely: Academic Planning and Career & College Pathways
11	Career Seminar Artifacts (Resume, Cover Letter, Budget Your Life, Entrepreneur Project, Curriculum Vitae)
9-12	Evidence of successful completion of one of the Industry Based Learning Indicators

Early Graduation Guidelines

West Allegheny students must meet the minimum graduation requirements to be eligible for graduation. These requirements include: earning at least 26.25 credits after successfully completing eighth grade, successful completion of core academic courses, demonstrating proficiency in state assessed areas, completion of the Civics Exam, completion of an approved Industry Based Learning (IBL) indicator, and successful demonstration of the Career Education Work (CEW) standards. Completion of these requirements generally occurs over four consecutive school years. All graduation requirements are outlined in the table on page 6.

Any student who wishes to complete the graduation requirements in less than four school years may do so and apply for early graduation as early as the start of the third year of high school given they have met the following criteria:

- Earned more than 10.00 credits, at least 8.00 through core academic courses
- In good academic standing as demonstrated by a weighted GPA of 3.0 or higher
- Have an attendance rate of 90% or higher for their high school career
- Be without major disciplinary infractions
- Have evidence of a viable post-secondary plan (e.g. acceptance to a 2 or 4 year school, enlistment in one of the armed forces, acceptance to an apprenticeship program)

Any student who meets all of the criteria listed above should begin by scheduling a pre-approval meeting with their school counselor and parents/guardians to discuss if applying for early graduation is appropriate for them. If the decision is made to move forward, the student must submit a written request for review to the high school administration no later than one semester before the requested early graduation date. The written request must include:

- 1) Rationale for applying for early graduation
- 2) A plan for the successful completion of all graduation requirements
- 3) A viable post-secondary plan including evidence
- 4) A timeline for meeting all requirements and requested graduation date

Once received, the high school administration will review for eligibility. If the student is eligible to move forward, a meeting will be scheduled with the principal or designee, the student, their family, and school counselor to discuss next steps and/or preliminary approval.

Any student who is granted preliminary approval must submit their evidence of post-secondary plans, maintain their academic good standing, attendance, and behavior, and successfully complete all graduation requirements prior to the date agreed upon at their preliminary pre-approval meeting. Once all graduation requirements are met, they will be considered for graduation. If considered, the student will then be required to meet with the superintendent and/or designee for final approval.

If the student is requesting early graduation that aligns with the end of a school year (i.e. graduating in three years instead of four years), they will be permitted to participate in senior student level activities after the pre-approval meeting has successfully concluded.

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%	P - Pass
B 80 – 89%	F - Fail
C 70 – 79%	I - Incomplete (awarded in special circumstances only)
D 60 – 69%	M - Medical (for physical education only)
F 59% and below	W - Withdrawal from a course after the first midterm of the first quarter (will remain on a student's transcript)
	X - Missing a major component of the course that MUST be completed to potentially pass the class. Seniors with an X grade will not be eligible for graduation.

Grade Point Values and Weighted Courses

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 & ECIHSA Courses	Other 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 & ECIHSA Courses with a Lab	Other Honors Courses with a Lab	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

ECIHSA – Early College in High School Academy (CCAC, RMU, and PTC)

HEC – Honors Early College

Weighted Courses

Advanced Placement (AP): Weighted on a 5.0 Scale

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 [College Board'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 they are 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. All courses followed by a ⌘ are eligible for college credit through our Early College in High School Academy. 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 Drawing

English

AP English Language & Composition⌘
AP English Literature & Composition⌘

History and Social Sciences

AP U.S. Government & Politics⌘
AP Economics⌘
AP Psychology⌘
AP United States History (WAVA ONLY)
AP World History

World Language

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

STEM

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

Early College in High School Academy (ECIHA) – CCAC: Weighted on a 5.0 Scale

West Allegheny High School has partnered with the Community College of Allegheny County to offer concurrent enrollment programs that allow 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 (ECIHA) offers five programs – Multimedia Programming, Simulation, & Gaming Associate Degree, Multimedia Game Simulation Certificate, Mechatronics Technology Certificate, General Studies Associate Degree, and General Education Certificate. In total, West Allegheny provides the opportunity through 25 high school courses for students to complete up to 42 CCAC courses allowing for up to 136 CCAC credits to be earned through concurrent enrollment.

Multimedia Programming, Simulation, & Gaming Associate Degree/ Multimedia Game Simulation Certificate

Introduction to Game Design
Multimedia Graphics
3D Modeling & Animation
2D/3D Game Development
Game Production & Marketing
Virtual Reality

Mechatronics Technology Certificate

Home Systems
Manufacturing I
Digital Electronics
Fluid Systems & Motor Control
Power Systems

General Studies Associate Degree/General Education Certificate/Multiple Programs

Honors Early College Algebra 2
Intro to Data Analytics with Python
AP Computer Science A
Programming in C# & C++
AP US Government & Politics
Criminal Justice & Investigations
AP English Language & Composition
AP English Literature & Composition
Oral Communications
AP Biology
AP Chemistry
AP Physics 1
Honors Early College German IV
Honors Early College Spanish IV

Weighted Courses

Early College in High School Academy (ECIHA) – RMU: Weighted on a 5.0 Scale

West Allegheny High School has partnered with Robert Morris University to offer concurrent enrollment programs that allow 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 (ECIHA) offers seven Programs – fast track to Bachelors Degrees in Business Administration, Cybersecurity, Early Childhood Education, Engineering, Special Education and Certificates in Business and Cybersecurity Fundamentals. In total, West Allegheny provides the opportunity through 24 high school courses for students to complete up to 29 RMU courses allowing for up to 85 RMU credits to be earned through concurrent enrollment.

Business/Business Administration

Marketing
Management
Business, Law, & Society
Financial Accounting
Managerial Accounting

Cybersecurity

Fundamentals/Cybersecurity

Intro to Cybersecurity
Computer Networking
Cybersecurity with Risk Management

Early Childhood Education/Special Education

Family & Community Relations
Partners in Physical Education
Technology for Aspiring Teachers
Child Development I
Child Development II
Partners in Exploring Foods

Engineering

Introduction to Engineering
CADD II
Engineering Materials

Multiple Programs

AP Calculus AB
AP Calculus BC
AP Statistics
AP Economics
AP Psychology
Classic & Modern Literature
Film Studies

Early College in High School Academy (ECIHA) – PTC Health Sciences: Weighted on a 5.0 Scale

West Allegheny High School has partnered with the Pittsburgh Technical College to offer four dual enrollment programs in the Health Sciences – Nursing Associate Degree, Surgical Technology Associate Degree, Practical Nursing Certificate, and Therapeutic Massage Practitioner Certificate. All courses taken through the program will be included on students' WA transcript and be awarded a 5.0 weight. For specific course alignment, please refer to the corresponding program layout.

Early College in High School Academy (ECIHA) – PTC Trades: Weighted on a 5.0 Scale

West Allegheny High School has partnered with the Pittsburgh Technical College to offer six dual enrollment programs in the Trades – Welding Associate Degree and Certificate, HVAC Associate Degree and Certificate, Computer Aided Drafting Mechanical Technology Associate Degree, Computer Aided Drafting Architectural Technology Associate Degree, Electrician Technology Certificate and Robotics & Autonomous Engineering Technology Associate Degree. All courses taken through the program will be included on students' WA transcript and be awarded a 5.0 weight. For specific course alignment, please refer to the corresponding program layout.

Early College in High School Academy (ECIHA) – CCBC Aviation Academy: Weighted on a 5.0 Scale

West Allegheny High School has partnered with the Community College of Beaver County to offer three dual enrollment programs in the Aviation – Aerospace Management Associate Degree, Air Traffic Controller Associate Degree, and Professional Pilot Associate Degree. All courses taken through the program will be included on students' WA transcript and be awarded a 5.0 weight. For specific course alignment, please refer to the corresponding program layout.

Additional Weighted Courses: Weighted on a 4.5 Scale

Arts

Honors Art IV
Honors Band
Honors Wind Ensemble

English

Honors English 9
Honors English 10

Health & Physical Education

Aquatics & Lifeguarding

History and Social Sciences

Honors African American & Multicultural Studies
Honors American Government
Honors US History
Honors Holocaust & Genocide Studies
Honors Psychology & Sociology

STEM

Honors Anatomy & Physiology
Honors Biology
Honors Chemistry
Honors Trigonometry & Precalculus

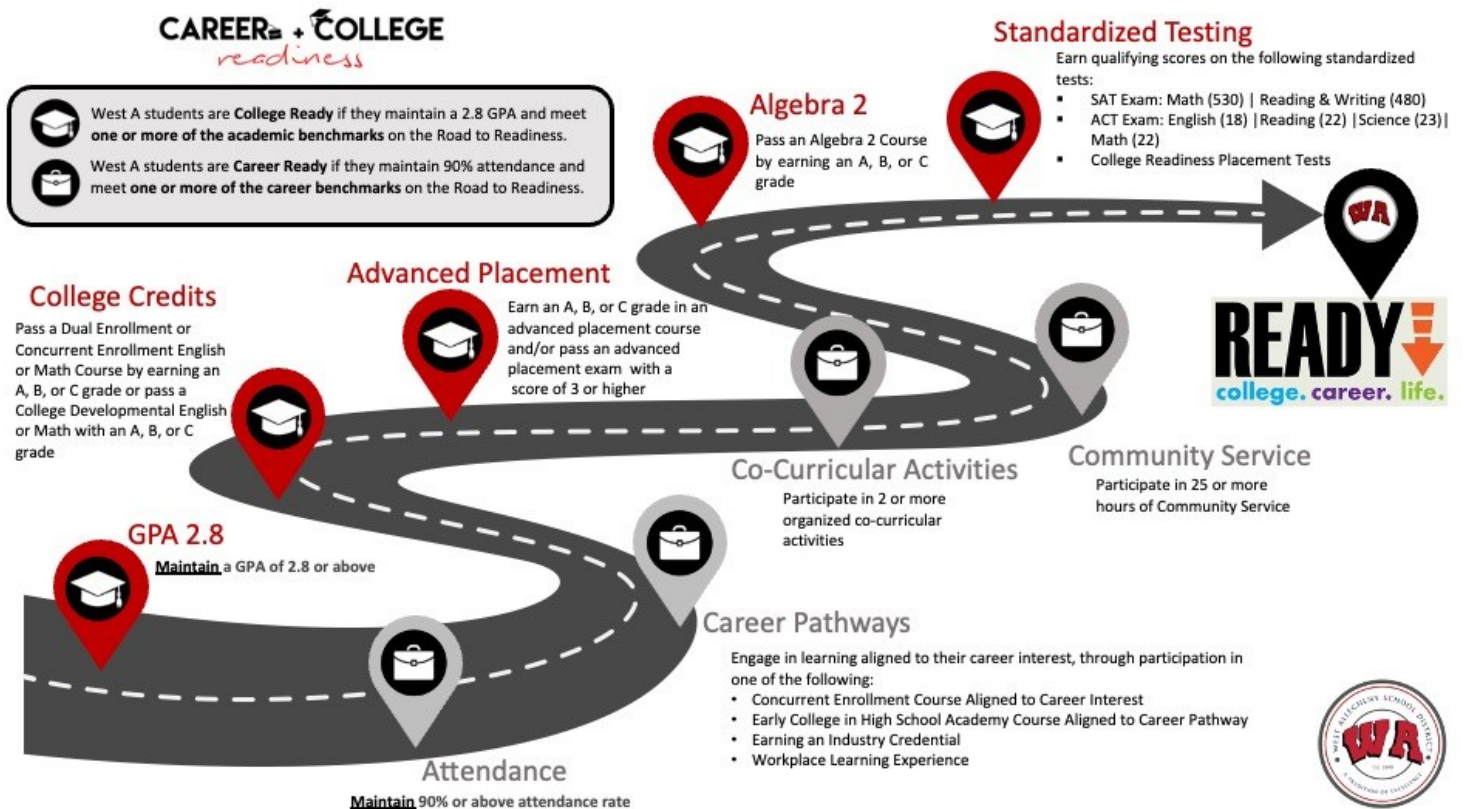
World Languages

French IV (WAVA ONLY)

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West Allegheny High School Career and College Pathways

The Career and College Road to Readiness maps out a student's journey through high school, preparing each student to enter and succeed in their post-secondary endeavors without the need for remediation. Throughout the high school experience, students study a rigorous, broad curriculum, preparing them to meet the national Career and College Readiness benchmarks. On the Road to Readiness, students maintain a minimum GPA of 2.8 and maintain 90% attendance while meeting additional milestones. Students develop the skills and knowledge necessary to be successful as they enter their post-secondary Career and College Pathways.



The Career and College Pathways are designed to focus student course selections and connect students to a viable career and/or a post-secondary program of study. The six (6) Career and College Pathways are aligned to Pennsylvania's sixteen (16) Career Clusters. During the scheduling process, each student will identify with one or more pathway(s), based on their individual interests, skills, and post-secondary goals. This section of our Program of Studies connects Career and College Pathways with our current course offerings. Career options and recommended courses are outlined in each Career and College Pathway. Information regarding the Holland codes (an interest assessment) and career clusters are available in Appendix A to help connect students to aligned career paths based on strengths and skills.

In addition, students will learn about several careers through career exploration lessons, facilitated by our school counselors, at each grade level using Naviance Family Connection (Appendix A). Students will be provided opportunities to explore resources and interests as well as reflect on experiences that may help each student select their best pathway(s). Students will personalize their course selections, both within and among the pathway(s), to navigate a well-rounded foundation while experiencing a variety of curricular options related to their post-secondary goal(s).

CAREER & COLLEGE PATHWAYS

The following Career and College Pathways are designed to focus student course selections and connect students to a viable career and/or a post-secondary program of study. The six (6) Career and College Pathways are aligned to Pennsylvania's sixteen (16) Career Clusters. This section of our Program of Studies connects Career and College Pathways with our current course offerings. Career options and recommended courses are outlined in each Career and College Pathway.

1

Arts, Communications
and Hospitality

2

Business Administration
and Finance

3

Education, Human and
Public Services

4

Engineering,
Manufacturing
Technology and Trades

5

Health and
Natural Sciences

6

Information Technology

ALIGNED PA CAREER CLUSTERS

Arts, Communications and Hospitality

- Arts, A/V Technology & Communications
- Hospitality & Tourism

1

Business Administration and Finance

- Business & Administration
- Finance & Insurance
- Marketing, Sales & Service

2

Education, Human and Public Services

- Government & Public Administration
- Law & Public Safety
- Education & Training
- Human Services

3

Engineering, Manufacturing Tech. and Trades

- Architecture & Construction
- Manufacturing
- Transportation, Distribution & Logistics
- Science & Research/Engineering

4

Health and Natural Sciences

- Health Sciences
- Agriculture, Food & Natural Resources

5

Information Technology

- Information Technology

6

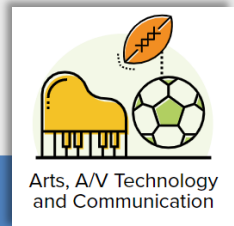


CAREER AND COLLEGE PATHWAYS

Arts, Communications and Hospitality

Associated Careers

- Director - Art, Film, Music, Talent, Media
- Editor - Film, Video, Book, Newspaper
- Performer - Actor/ess, Musician/Singer
- Graphic Design – Arts & Production Technology
- Photographer
- Writer/Author/Journalist
- Fashion Designer
- Broadcasting Technicians - Audio/Video, Sound
- Artist



Arts, A/V Technology
and Communication

Arts, A/V Technology & Communications

Associated Careers

- Food Service Manager
- Culinary - Chef, Baker, Cook, Waiter
- Athlete
- Travel Agent
- Lodging Manager
- Concierge
- Sport Official
- Housekeeping
- Custodial Worker
- Amusement & Recreation



Hospitality and
Tourism

Hospitality & Tourism

Arts, Communications and Hospitality

Example Careers CONNECTED WA PROGRAMS	RECOMMENDED COURSES			
	9	10	11	12
Director (Art, Film, Music, Talent, Media)	Media Arts Tech Theatre: Set Building Tech Theatre: Crew	Management Tech Theatre: Set Building Tech Theatre: Crew	Creative Writing ^C Marketing Tech Theatre: Set Building Tech Theatre: Crew	Film Studies ^C 3D Modeling & Animation Tech Theatre: Set Building Tech Theatre: Crew
Editor (Film, Video, Book, Newspaper)	Media Arts	Yearbook	Creative Writing ^C	Oral Communications ^C Film Studies ^C
Writer/Author/Journalist AP CAPSTONE DIPLOMA PROGRAM	Honors English 9 ^C	Honors English 10 ^C AP Seminar ^C	AP Eng Lang & Com ^C AP Research ^C Creative Writing ^C	AP Eng Lit & Comp ^C Classic & Modern Lit ^C Oral Communications ^C Film Studies ^C Gothic Literature (WAVA)
Performer (Actor/ess, Musician/Singer)	Band Chorus Dance Guitar Piano	Wind Ensemble Show Choir Dance Company Guitar Piano	Wind Ensemble Show Choir Dance Company Guitar Piano Digital Audio Prod 1 Vocal Studies Jazz Studies	Oral Communications ^C Film Studies ^C Wind Ensemble Show Choir Dance Company Guitar Piano Digital Audio Prod 2 Vocal Studies Jazz Studies Music Apprec (WAVA)
Graphic Design/Arts & Production Technology PARKWAY: GRAPHICS DESIGN & PRODUCTION TECHNOLOGY ECIHS-CCAC: MULTIMEDIA PROGRAMMING, SIMULATION & GAMING	Technology Skills Intro to Game Design Art 1 Media Arts Graphic Arts & Production Technology (Pkwy)	Multimedia Graphics 3D Modeling & Animation AP Computer Science Prin ^C Art II Graphic Arts & Production Technology (Pkwy)	2D/3D Game Develop ^C AP Computer Science A ^C Art III Graphic Arts & Production Technology (Pkwy)	Game Prod & Marketing ^C Virtual Reality ^C Programming in C# & C++ ^C Honors Art IV AP Drawing Graphic Arts & Production Technology (Pkwy)
Artist	Art 1 Media Arts Intro to Game Design	Art 2 Ceramics 1 Multimedia Graphics AP Computer Science A ^C Art Appreciation (WAVA)	Art 3 Ceramics 2 2D/3D Game Development 3D Modeling & Animation Graphic Dsgn 1&2 (WAVA)	Honors Art IV AP Drawing DIY Virtual Reality ^C
Technicians (Audio/Video, Sound)	Tech Theater: Set Building Tech Theater: Crew	Tech Theater: Set Design Tech Theater: Crew Digital Audio Prod 1	Tech Theater: Set Design Tech Theater: Crew Digital Audio Prod 2	Film Studies ^C Tech Theater: Set Design Tech Theater: Crew
Food Service/Culinary (Chef, Baker, Cook, Manager, Waiter) PARKWAY: CULINARY ARTS	Culinary Arts (Pkwy)	Marketing Culinary Arts (Pkwy)	Exploring Foods Management Financial Accounting Culinary Arts (Pkwy)	West A Café Managerial Accounting Culinary Arts (Pkwy)

The above chart provides recommended elective courses for career fields aligned to the 16 PA Career Clusters. Please keep in mind these are recommendations and not an exhaustive list. In addition to these recommendations, students are required to complete the core course requirements for graduation - 4 courses in each of the 4 core areas unless a student elects to attend PWCTC in which case they must successfully complete 4 courses in English & Math and 3 courses in Science & Social Studies. Courses denoted by ^C count as a core class. Please reference page 6 for a full list of core courses available by grade level in alignment with our graduation requirements.



CAREER AND COLLEGE PATHWAYS

Business Administration and Finance

Associated Careers

- Investment Fund Manager
- Patient Representative
- Human Resources
- Training and Development Specialist
- Chief Executive Officer
- Purchasing Manager
- Analyst - Operation Research, Management, Compensation, Benefits & Jobs, Budget



Business and
Administration

Business & Administration

Associated Careers

- Financial Manager/Advisor
- Actuary
- Budget Analyst
- Insurance Underwriter & Appraiser
- Insurance Claims and Policy Processor
- Loan Officer
- Credit Analyst
- Bank Teller
- Tax Preparer
- Accountant/Auditor



Finance and
Insurance

Finance & Insurance

Associated Careers

- Sales Manager
- Sales Engineer
- Medical Sales
- Real Estate Broker/Agent
- Telemarketer
- Public Relations
- Marketer – Analyst, Manager, Specialist



Marketing Sales and
Service

Marketing, Sales & Service

Business Administration and Finance

Example Careers CONNECTED WA PROGRAMS	RECOMMENDED COURSES			
	9	10	11	12
Analyst (Operation Research, Management, Compensation, Benefits, & Jobs, Budget) ECIHSA-RMU: BUSINESS	Technology Skills Principles of Business	Business, Law, & Society ^C Intro to Data Analytics ^C AP Computer Science Prin ^C	Financial Accounting ^C Marketing AP Computer Science A ^C Computer Networking	Managerial Accounting ^C Management Programming in C# & C++ ^C AP Statistics ^C AP Economics ^C Oral Communications ^C
Investment Fund Manager ECIHSA-RMU: BUSINESS	Technology Skills Principles of Business	Business, Law, & Society ^C Intro to Data Analytics ^C	Financial Accounting ^C Marketing Personal Finance ^C	Managerial Accounting ^C Management AP Economics ^C Oral Communications ^C
Human Resources ECIHSA-RMU: BUSINESS	Technology Skills Principles of Business	Business, Law, & Society ^C Intro to Data Analytics ^C	Financial Accounting ^C Marketing	Managerial Accounting ^C Management Oral Communications ^C
Financial Manager/Advisor ECIHSA-RMU: BUSINESS	Technology Skills Principles of Business	Business, Law, & Society ^C Intro to Data Analytics ^C	Financial Accounting ^C Marketing Personal Finance ^C	Managerial Accounting ^C Management Oral Communications ^C
Accountant/Auditor ECIHSA-RMU: BUSINESS	Technology Skills Principles of Business	Business, Law, & Society ^C Intro to Data Analytics ^C	Financial Accounting ^C Marketing Personal Finance ^C	Managerial Accounting ^C Management Oral Communications ^C
Actuary ECIHSA-RMU: BUSINESS	Technology Skills Principles of Business	Business, Law, & Society ^C Intro to Data Analytics ^C	Financial Accounting ^C Marketing Personal Finance ^C	Managerial Accounting ^C Management
Loan Officer ECIHSA-RMU: BUSINESS	Technology Skills Principles of Business	Business, Law, & Society ^C Intro to Data Analytics ^C	Financial Accounting ^C Marketing	Managerial Accounting ^C Management Oral Communications ^C AP Statistics ^C
Marketing (Analyst, Manager, Specialist) ECIHSA-RMU: BUSINESS	Technology Skills Principles of Business Art 1 Media Arts	Business, Law, & Society ^C Art 2 Multimedia Graphics Graphic Dsgn 1&2 (WAVA)	Financial Accounting ^C Marketing Art 3 3D Modeling & Animation	Managerial Accounting ^C Management Oral Communications ^C Honors Art IV AP Drawing
Sales Engineer WA-GACC: PRE-APPRENTICESHIP	Home Systems Manufacturing 1	Digital Electronics	Power Systems	Fluid System Pre-apprenticeship (through GACC)
Medical Sales ECIHSA-RMU: BUSINESS	Technology Skills Principles of Business	Business, Law, & Society ^C	Financial Accounting ^C Marketing AP Biology ^C	Managerial Accounting ^C Management Oral Communications ^C Anatomy & Physiology ^C
Patient Representative/Medical Concierge	Technology Skills Principles of Business	Business, Law, & Society ^C	Financial Accounting ^C Marketing	Managerial Accounting ^C Management Oral Communications ^C

The above chart provides recommended elective courses for career fields aligned to the 16 PA Career Clusters. Please keep in mind these are recommendations and not an exhaustive list. In addition to these recommendations, students are required to complete the core course requirements for graduation - 4 courses in each of the 4 core areas unless a student elects to attend PWCTC in which case they must successfully complete 4 courses in English & Math and 3 courses in Science & Social Studies. Courses denoted by ^C count as a core class. Please reference page 6 for a full list of core courses available by grade level in alignment with our graduation requirements.



CAREER AND COLLEGE PATHWAYS

Education, Human and Public Services

Associated Careers

- Legislator
- Financial Examiner
- Postal Service
- Court & Municipal Clerk
- Coroner
- TSA Screener
- Equal Opportunity Representative
- Inspector – Transportation, Aviation, Environmental, Building
- Military



Government & Public Administration

Associated Careers

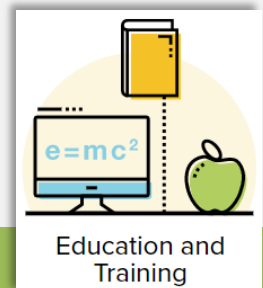
- Lawyer, Judge/Magistrate
- Intelligence Analyst
- Forensic Science Technician
- Firefighter
- Paralegal, Court Reporter
- Fish & Game Warden
- Animal Control
- Security Guard
- Lifeguard
- Examiner, Abstractor, Searcher
- Police Officer, Detective, Criminal Investigator



Law & Public Safety

Associated Careers

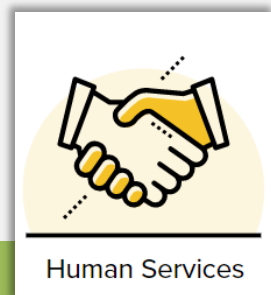
- Teacher
- Professor
- School Administrator
- Librarian
- Curator
- Interpreter, Translator
- Museum Technician & Conservator
- School & Career Counselor



Education & Training

Associated Careers

- Psychologist - Industrial, Clinical, Neuro
- Funeral Home Managers & Morticians
- Therapist - Marriage, Family, Massage
- Counselor - Mental Health/Rehabilitation
- Social Worker
- Loan Officer
- Child Care
- Clergy
- Cosmetologist/Barber/Beautician

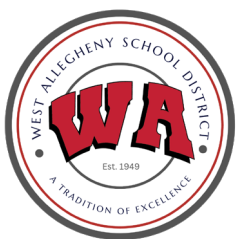


Human Services

Education, Human and Public Services

Example Careers CONNECTED WA PROGRAMS	RECOMMENDED COURSES			
	9	10	11	12
Early Childhood Education ECIHS-A-RMU: EARLY CHILDHOOD EDUCATION	Technology Skills	Family & Com Relations Partners in Phys Ed ^C	Child Development 1 Partners in Explor Foods AP Psychology ^C AP Eng Lang & Comp ^C	Child Development 2 Tech for Aspir Teach AP Economics ^C Oral Communications ^C
Special Education ECIHS-A-RMU: SPECIAL EDUCATION	Technology Skills	Partners in Phys Ed ^C	Child Development 1 Partners in Exploring Foods AP Psychology ^C AP Eng Lang & Comp ^C	Child Development 2 West A Café Tech for Aspir Teach Oral Communications ^C
General Education AP CAPSTONE DIPLOMA PROGRAM ECIHS-A-RMU: SPECIAL EDUCATION	Technology Skills	Family & Com Relations Partners in Phys Ed ^C	Partners in Exploring Foods AP Psychology ^C AP Eng Lang & Comp ^C	Tech for Aspir Teach Oral Communications ^C an AP Science course
Cosmetology (Barber/Beautician) PARKWAY: COSMETOLOGY	Cosmetology (Pkwy)	Cosmetology (Pkwy)	Cosmetology (Pkwy)	Oral Communications ^C Cosmetology (Pkwy)
Criminal Justice Field (Lawyer, Police Officer, Forensic Scientist) PARKWAY: PUBLIC SAFETY TECHNOLOGY AP CAPSTONE DIPLOMA PROGRAM JROTC PROGRAM	JROTC I Public Safety Technology (Pkwy)	JROTC II AP US Government ^C Criminal Justice ^C AP Seminar ^C Family & Com Relations Public Safety Technology (Pkwy)	JROTC III Business, Law, & Society ^C AP Research ^C Child Development 1 Public Safety Technology (Pkwy)	JROTC IV ^C Foundations of Leadership ^C AP Psychology ^C Forensic Science ^C Oral communications ^C Public Safety Technology (Pkwy)
Firefighter/EMS PARKWAY: PUBLIC SAFETY TECHNOLOGY	Public Safety Technology (Pkwy)	Public Safety Technology (Pkwy)	AP Biology ^C Public Safety Technology (Pkwy)	Anatomy & Physiology ^C Public Safety Technology (Pkwy)
Psychologist (Industrial, Clinical, Neuro) AP CAPSTONE DIPLOMA PROGRAM	Principles of Business	AP Seminar ^C Partners in Phys Ed ^C	AP Research ^C Child Development 1 AP Biology ^C	AP Psychology ^C Family & Com Relations Anatomy & Physiology ^C
Military JROTC PROGRAM	JROTC I Physical Conditioning	JROTC II Physical Conditioning	JROTC III Criminal Justice ^C Physical Conditioning	JROTC IV ^C Foundations of Leadership Oral Communications ^C Physical Conditioning

The above chart provides recommended elective courses for career fields aligned to the 16 PA Career Clusters. Please keep in mind these are recommendations and not an exhaustive list. In addition to these recommendations, students are required to complete the core course requirements for graduation - 4 courses in each of the 4 core areas unless a student elects to attend PWTC in which case they must successfully complete 4 courses in English & Math and 3 courses in Science & Social Studies. Courses denoted by ^C count as a core class. Please reference page 6 for a full list of core courses available by grade level in alignment with our graduation requirements.

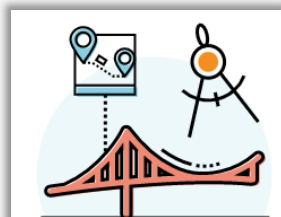


CAREER AND COLLEGE PATHWAYS

Engineering, Manufacturing Technology, and Trades

Associated Careers

- Civil Engineer
- Architect
- Interior Designer
- Construction Manager/Worker
- Iron & Steel Worker
- Transportation Engineer
- Mason
- Carpenter
- Drafter
- Roofer
- Electrician
- Plumber
- HVAC Technician
- Landscaping & Groundskeeping
- Solar Energy Installation
- Assistant - Plumber, Pipefitter, Steamfitter, Pipelayer



Architecture and Construction

Architecture & Construction

Associated Careers

- Power Distributor & Dispatcher
- Industrial Engineer Technologist
- Power/Chemical/Gas Plant Operator
- Welder
- Security & Fire Alarm Systems
- Radio/Cellular/Tower Equipment Installer & Reclamation Worker
- Mechatronics Technologist



Manufacturing

Manufacturing

Associated Careers

- Air Traffic Controller
- Aerospace Manager
- Pilot
- Water Vessel Operator
- Railroad Engineers/Operator
- Autobody Collision Repair
- Mass Transit Operator
- Industrial Truck & Tractor Operator
- Automotive & Diesel Technician
- Mechanic - Aircraft, Automotive



Transportation, Distribution, and Logistics

Transportation, Distribution & Logistics

Associated Careers

- Bio Fields - Biofuels, Biodiesel, Biochemist, Biophysicist
- Engineer - Aerospace, Nuclear, Computer, Petroleum, Chemical, Electrical, Robotics, Mechatronics, Energy, Civil, Industrial
- Mathematician/Statistician
- Cartographer
- Urban and Regional Planner
- Environmental Scientist



Scientific Research/Engineering

Science & Research/Engineering

Engineering, Manufacturing Technology and Trades

Example Careers CONNECTED WA PROGRAMS	RECOMMENDED COURSES			
	9	10	11	12
Engineer (Aerospace, Nuclear, Computer, Petroleum, Chemical, Electrical, Robotics, Mechatronics, Energy, Civil, Industrial) ECIHS-RMU: ENGINEERING	Principles of Technology Home Systems Manufacturing 1	Intro to Engineering Draw & Design Engr & Arch Marketing	CADD II Management Financial Accounting ^C AP Calculus AB ^C AP Physics 1 ^C	Engineering Materials Program in C# & C++ ^C AP Economics AP Calculus BC ^C AP Physics 2 ^C
Mechatronics Technician ECIHS-CCAC: MECHATRONICS TECHNOLOGY	Principles of Technology Home Systems	Digital Electronics Manufacturing 1	Power Systems Man Tech 2	Fluid System DIY
Computer Aided Drafting (Mechanical, Architectural) ECIHS-PTC: CAD MECHANICAL ENGINEER TECH ECIHS-PTC: CAD ARCHITECT ENGINEER TECH	Principles of Technology Architectural Design	Draw & Design Engr & Arch	Personal Finance ^C ECIHS-PTC: CAD Mech Engrg Tech ECIHS-PTC: CAD Arch Engrg Tech	ECIHS-PTC: CAD Mech Engrg Tech ECIHS-PTC: CAD Arch Engrg Tech
Robotics & Autonomous Engineering Technology ECIHS-PTC: ROBOTICS & AUTONOMOUS ENGINEERING TECHNOLOGY	Principles of Technology Home Systems Architectural Design	Draw & Design Engr & Arch Manufacturing 1	ECIHS-PTC: Robotics & Autonomous Engineering Technology	ECIHS-PTC: Robotics & Autonomous Engineering Technology
Electrician PARKWAY: ELECTRICAL SYSTEMS TECHNOLOGY ECIHS-PTC: ELECTRICIAN TECHNOLOGY	Electrical Systems Technology (Pkwy)	Electrical Systems Technology (Pkwy)	ECIHS-PTC: Electrician Technology	ECIHS-PTC: Electrician Technology
Welder PARKWAY: WELDING TECHNOLOGY ECIHS-PTC: WELDING TECHNOLOGY	Welding (Pkwy)	Welding (Pkwy)	ECIHS-PTC: Welding Technology	ECIHS-PTC: Welding Technology
HVAC Technician PARKWAY: HVAC/R ECIHS-PTC: HVAC TECHNOLOGY	HVAC/R (Pkwy)	HVAC/R (Pkwy)	ECIHS-PTC: HVAC Technology	ECIHS-PTC: HVAC Technology
Automotive Technician PARKWAY: AUTOMOTIVE TECHNOLOGY ECIHS-ROSEDALE: AUTOMOTIVE TECHNOLOGY	Automotive Technology (Pkwy)	Automotive Technology (Pkwy)	Automotive Technology (Pkwy)	ECIHS-RTC: Automotive Technology
Autobody Collision Repair PARKWAY: AUTOBODY REPAIR ECIHS-RTC: AUTOMOTIVE TECHNOLOGY	Autobody Repair (Pkwy)	Autobody Repair (Pkwy)	Autobody Repair (Pkwy)	ECIHS-RTC: Collision Repair Technology
Diesel Technician PARKWAY: DIESEL TECHNOLOGY ECIHS-RTC: DIESEL TECHNOLOGY	Diesel Technology (Pkwy)	Diesel Technology (Pkwy)	Diesel Technology (Pkwy)	ECIHS-RTC: Diesel Technology
Air Traffic Controller ECIHS-CCBC: AIR TRAFFIC CONTROLLER	Principles of Business Technology Skills	Intro to Cybersecurity	AP English Lang & Comp ^C ECIHS-CCBC: Air Traffic Controller	AP English Lit & Comp ^C ECIHS-CCBC: Air Traffic Controller
Aerospace Manager ECIHS-CCBC: AEROSPACE MANAGEMENT	Principles of Business Technology Skills	AP US Government ^C Intro to Cybersecurity Marketing Financial Accounting ^C	AP English Lang & Comp ^C Management Managerial Accounting ^C ECIHS-CCBC: Aerospace Manager	AP English Lit & Comp ^C AP Economics ^C Oral Communications ^C ECIHS-CCBC: Aerospace Manager
Pilot (Professional, Commercial, Private) ECIHS-CCBC: PROFESSIONAL PILOT	Technology Skills	Intro to Cybersecurity	AP English Lang & Comp ^C AP Physics 1 ^C ECIHS-CCBC: Professional Pilot	AP English Lit & Comp ^C ECIHS-CCBC: Professional Pilot

The above chart provides recommended elective courses for career fields aligned to the 16 PA Career Clusters. Please keep in mind these are recommendations and not an exhaustive list. In addition to these recommendations, students are required to complete the core course requirements for graduation - 4 courses in each of the 4 core areas unless a student elects to attend PWCTC in which case they must successfully complete 4 courses in English & Math and 3 courses in Science & Social Studies. Courses denoted by ^C count as a core class. Please reference page 6 for a full list of core courses available by grade level in alignment with our graduation requirements.

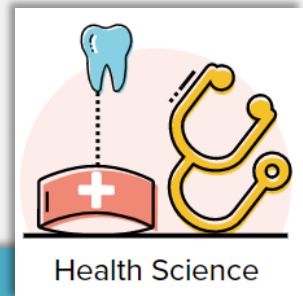


CAREER AND COLLEGE PATHWAYS

Health and Natural Sciences

Associated Careers

- Doctor
 - Anesthesiologist, Surgeon, Psychiatrist, Physical Therapist
- Nurse (RN)
- Nurse Practitioner
- Licensed Practical Nurse (LPN)
- Physician Assistant
- Surgical Technologist
- Massage Therapist
- Psychiatrist
- Therapist - Physical, Occupational, Music, Art, Radiation, Respiratory
- Speech-Language Pathologist
- Dentist/Orthodontist
- Pharmacist
- Veterinarian/Vet Assistant
- Phlebotomist
- Sports Medicine
- Athletic Trainer



Health Sciences

Associated Careers

- Biological Technician
- Clinical Research Coordinator
- Engineer - Water/Waste Water, Agricultural, Environmental
- Zoologist
- Biological Technician
- Pest Control Worker
- Recyclable Material Collector



Agriculture, Food & Natural Resources

Health and Natural Sciences

Example Careers CONNECTED WA PROGRAMS	RECOMMENDED COURSES			
	9	10	11	12
Nurse, Nurse Practitioner, Physician Assistant ECIHS-PTC: NURSING PARKWAY: HEALTHCARE OCCUPATIONS TECHNOLOGY	Healthcare Occupations Technology (Pkwy)	AP Biology ^C Healthcare Occupations Technology (Pkwy)	AP English Lang & Comp ^C Oral Communications ^C Anatomy & Physiology ^C ECIHS-PTC: Nursing	ECIHS-PTC: Nursing
Doctor AP CAPSTONE DIPLOMA PROGRAM	Technology Skills	AP Biology ^C AP Seminar ^C AP Calculus AB ^C	AP English Lang & Comp ^C AP Research ^C AP Physics 1 ^C AP Calculus BC ^C AP Psychology ^C	Oral Communications ^C Anatomy & Physiology ^C AP Chemistry ^C AP Statistics ^C Exercise Science ^C
Surgical Technologist ECIHS-PTC: SURGICAL TECHNOLOGY PARKWAY: HEALTHCARE OCCUPATIONS TECHNOLOGY	Healthcare Occupations Technology (Pkwy)	Healthcare Occupations Technology (Pkwy)	ECIHS-PTC: Surgical Technology	ECIHS-PTC: Surgical Technology
Massage Therapist ECIHS-PTC: THERAPEUTIC MASSAGE PRACTITIONER PARKWAY: HEALTHCARE OCCUPATIONS TECHNOLOGY	Healthcare Occupations Technology (Pkwy)	Healthcare Occupations Technology (Pkwy)	Healthcare Occupations Technology (Pkwy)	ECIHS-PTC: Therapeutic Massage Practitioner
Licensed Practical Nurse ECIHS-PTC: PRACTICAL NURSING PARKWAY: HEALTHCARE OCCUPATIONS TECHNOLOGY	Healthcare Occupations Technology (Pkwy)	Healthcare Occupations Technology (Pkwy)	ECIHS-PTC: Practical Nursing	ECIHS-PTC: Practical Nursing
Psychiatrist AP CAPSTONE DIPLOMA PROGRAM	Technology Skills	AP Seminar ^C Partners in Phys Ed ^C	AP Research ^C AP Biology ^C Child Development 1	AP Psychology ^C Anatomy & Physiology ^C Oral Communications ^C
Veterinarian/Vet Assistant PARKWAY: VETERINARY ASSISTANT TECHNOLOGY	Veterinary Assistant Technology (Pkwy)	Veterinary Assistant Technology (Pkwy)	Veterinary Assistant Technology (Pkwy)	AP Biology ^C Veterinary Assistant Technology (Pkwy)
Sports Medicine/ Athletic Trainer PARKWAY: SPORTS MEDICINE & REHAB THERAPY TECHNOLOGY	Sports Medicine & Rehab Therapy Technology (Pkwy)	Sports Medicine & Rehab Therapy Technology (Pkwy)	Sports Medicine & Rehab Therapy Technology (Pkwy)	Anatomy & Physiology ^C Exercise Science ^C Sports Medicine & Rehab Therapy Technology (Pkwy)
Clinical Research Coordinator AP CAPSTONE DIPLOMA PROGRAM	Technology Skills	AP Seminar ^C Family & Com Relations	AP Research ^C AP Psychology ^C	AP Chemistry ^C AP Biology ^C Creative Writing ^C

The above chart provides recommended elective courses for career fields aligned to the 16 PA Career Clusters. Please keep in mind these are recommendations and not an exhaustive list. In addition to these recommendations, students are required to complete the core course requirements for graduation - 4 courses in each of the 4 core areas unless a student elects to attend PWCTC in which case they must successfully complete 4 courses in English & Math and 3 courses in Science & Social Studies. Courses denoted by ^C count as a core class. Please reference page 6 for a full list of core courses available by grade level in alignment with our graduation requirements.

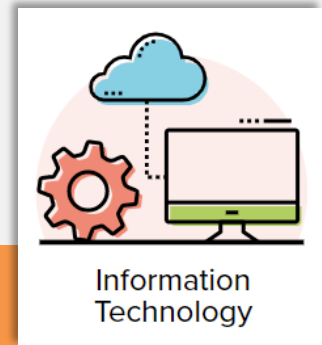


CAREER AND COLLEGE PATHWAYS

Information Technology

Associated Careers

- Computer Programmer
- Multimedia Game Designer/Programmer
- Cybersecurity & Networking Technologist
- Computer Network Architect
- Computer Systems Engineer
- Computer Network Support
- Web Administrator & Designer/Developer
- IT Project Manager
- Search Marketing Strategist
- Telecommunications Engineer Specialist
- Analyst -Information Security, Computer Systems, Intelligence, Cybersecurity



Information Technology

Information Technology

Example Careers CONNECTED WA PROGRAMS	RECOMMENDED COURSES			
	9	10	11	12
Cybersecurity Analyst ECIHS-RMU: CYBERSECURITY	Technology Skills	Intro to Cybersecurity AP Computer Science Prin ^C	Computer Networking AP Computer Science A ^C Intro to Data Analytics ^C	Cybersecurity Risk Mgmt Programming in C# & C++ ^C AP Economics ^C
Multimedia Game Designer/Programmer ECIHS-CCAC: MULTIMEDIA PROGRAMMING, SIMULATION & GAMING	Technology Skills Intro to Game Design Art 1 Media Arts	Multimedia Graphics 3D Modeling & Animation AP Computer Science Prin ^C Art II Ceramics 1	2D/3D Game Develop ^C AP Computer Science A ^C Art III Ceramics 2	Game Prod & Marketing ^C Virtual Reality ^C Programming in C# & C++ ^C Honors Art IV AP Drawing
Cybersecurity & Networking Technologist ECIHS-RMU: CYBERSECURITY PARKWAY: CYBER SECURITY & NETWORKING TECHNOLOGY	Technology Skills Cyber Security & Networking Technology (PkwY)	Intro to Cybersecurity AP Computer Science Prin ^C Cyber Security & Networking Technology (PkwY)	Computer Networking AP Computer Science A ^C Intro to Data Analytics ^C Cyber Security & Networking Technology (PkwY)	Cybersecurity Risk Mgmt Programming in C# & C++ ^C AP Economics ^C Cyber Security & Networking Technology (PkwY)
Web Administrator/Designer /Developer ECIHS-CCAC: MULTIMEDIA PROGRAMMING, SIMULATION & GAMING	Technology Skills Intro to Game Design Art 1 Media Arts	Multimedia Graphics 3D Modeling & Animation AP Computer Science Prin ^C Art II	2D/3D Game Develop ^C AP Computer Science A ^C Art III	Game Prod & Marketing ^C Virtual Reality ^C Programming in C# & C++ ^C Honors Art IV AP Drawing
Computer Programmer ECIHS-CCAC: MULTIMEDIA PROGRAMMING, SIMULATION & GAMING	Technology Skills Intro to Game Design	Intro to Cybersecurity AP Computer Science Prin ^C Multimedia Graphics 3D Modeling & Animation	Computer Networking AP Computer Science A ^C Intro to Data Analytics ^C 2D/3D Game Develop ^C	Cybersecurity Risk Mgmt Programming in C# & C++ ^C Game Prod & Marketing ^C Virtual Reality ^C
Information Technology Project Manager ECIHS-RMU: CYBERSECURITY	Technology Skills Principles of Business	Intro to Cybersecurity AP Computer Science Prin ^C Management	Computer Networking AP Computer Science A ^C Intro to Data Analytics ^C	Cybersecurity Risk Mgmt Programming in C# & C++ ^C Business, Law, & Society ^C
Intelligence Analyst ECIHS-RMU: CYBERSECURITY	Technology Skills Principles of Business	Intro to Cybersecurity AP Computer Science Prin ^C Business, Law, & Society ^C	Computer Networking AP Computer Science A ^C Intro to Data Analytics ^C	Cybersecurity Risk Mgmt Programming in C# & C++ ^C AP Economics ^C

The above chart provides recommended elective courses for career fields aligned to the 16 PA Career Clusters. Please keep in mind these are recommendations and not an exhaustive list. In addition to these recommendations, students are required to complete the core course requirements for graduation - 4 courses in each of the 4 core areas unless a student elects to attend PWCTC in which case they must successfully complete 4 courses in English & Math and 3 courses in Science & Social Studies. Courses denoted by ^C count as a core class. Please reference page 6 for a full list of core courses available by grade level in alignment with our graduation requirements.

Summary of Programs

West Allegheny High School offers a multitude of programs designed to connect students to viable career and college 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 programs listed throughout this section have 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, **28** Early College in High School Academy programs with our **5** higher education partners (Community College of Allegheny County: **5** concurrent enrollment programs, Robert Morris University: **7** concurrent enrollment programs, Pittsburgh Technical College: **10** dual enrollment programs, Community College of Beaver County: **3** dual enrollment programs, Rosedale Technical College: **3** dual enrollment programs), **15** Parkway West Career & Technology Center programs, West Allegheny Learning Center, West Allegheny Virtual Academy, and **2** Early College in High School Academy programs for students with disabilities through CCAC in Food Service and Environmental Services/Janitorial.



PATHWAYS TO SUCCESS



COLLEGIATE PREPARATORY

- Advanced Placement
- Advanced Placement Capstone Diploma Program
- Concurrent Enrollment Programs
- Dual Enrollment Programs

ECIHS

- Concurrent Enrollment

- Multimedia Game Simulation (CCAC)
- General Studies (CCAC)
- Mechatronics (CCAC)
- Engineering (RMU)
- Business Admin (RMU)
- Cybersecurity (RMU)
- Early Childhood Education (RMU)
- Special Education (RMU)

ECIHS

- Dual Enrollment

- Aviation Academy (CCBC):
 - Aerospace Mgmt.
 - Professional Pilot
 - Air Traffic Controller
- Health Sciences Academy (PTC):
 - Nursing
 - Practical Nursing
 - Surgical Tech
 - Massage Practitioner
- Skilled Trades Academy (PTC):
 - HVAC
 - Welding
 - Electrician
 - CAD
 - Robotics & Autonomous Engineering Technology
- Auto/Diesel Academy (RTC):
 - Automotive Technology
 - Collision Repair Technology
 - Diesel Technology

CAREER & TECH ED

- Concurrent Enrollment

- Parkway West CTC:
 - Auto Body
 - Automotive Tech.
 - Construction
 - Cosmetology
 - Culinary Arts
 - Diesel Tech.
 - Graphic Design
 - Health Occ. Tech.
 - Cyber Security & Networking
 - Public Safety Tech.
 - Sports Med/Rehab
 - Vet Tech.

ALTERNATIVE ED PROGRAMS

- Work Study
- Work Force Development Program for Students w/ Disabilities (CCAC)
- WA Virtual Academy (WAVA)
- WA Learning Center (WALC)

Arts, Communications and Hospitality

PA Career Clusters: ◀ Arts, A/V Technology & Communication ◀ Hospitality & Tourism

Business Administration and Finance

PA Career Clusters: ◀ Business & Administration ◀ Finance & Insurance ◀ Marketing Sales & Service

Education, Human and Public Services

PA Career Clusters: ◀ Government & Public Administration ◀ Law & Public Safety ◀ Human Services ◀ Education & Training

Engineering, Manufacturing Technology and Trades

PA Career Clusters: ◀ Architecture & Construction ◀ Manufacturing ◀ Transportation, Distribution & Logistics ◀ Scientific Research/Engineering

Health and Natural Sciences

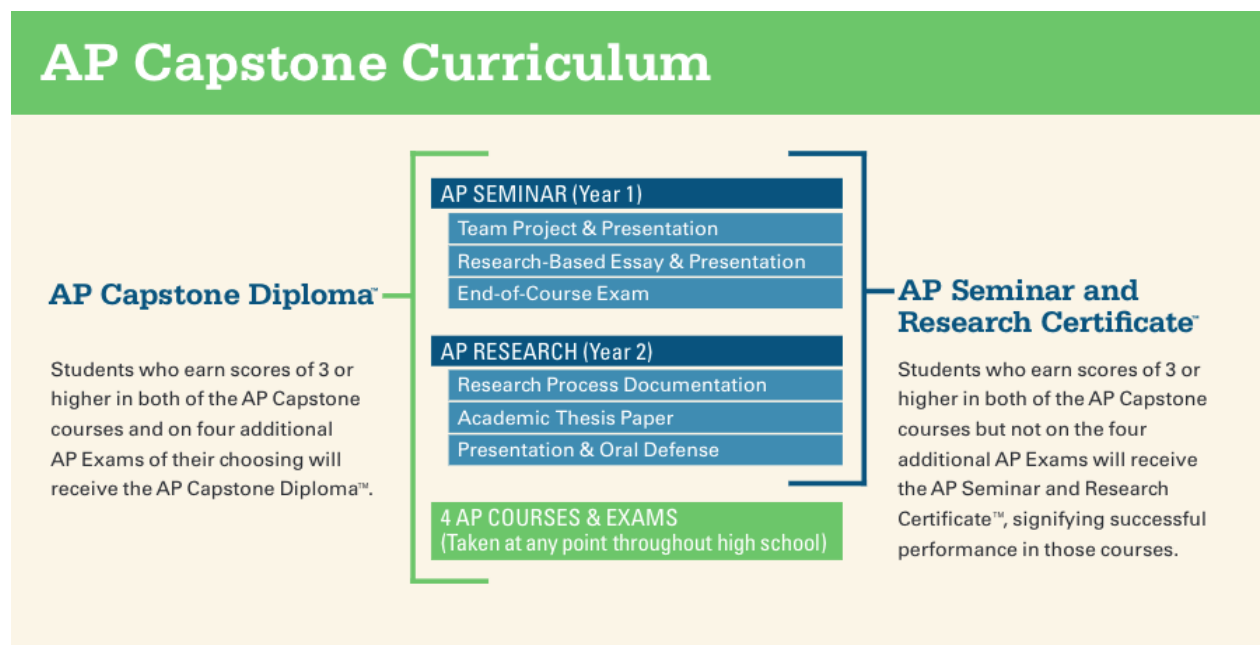
PA Career Clusters: ◀ Health Science ◀ Agriculture, Food & Natural Resources

Information Technology

PA Career Clusters: ◀ Information Technology

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 Drawing

English

AP English Language & Composition
AP English Literature & Composition

History & Social Science

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

Math, Science, & Technology

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

World Languages

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



Parkway West Career & Technology Center Programs and Industry Certifications



Parkway West Career & Technology Center (CTC) currently offers sixteen 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 sixteen 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		
Possible Workforce Industry Certifications		
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 Pro Spot Welding System; Hybrid Spot – Resistance Spot Welder PPG EHP Overview	PA Skills Certificate Fuser Repair Adhesives 002 Bumper Repair, 003 Composite Repair & Bonding and 006 Sealing & Sound Control
Program Description		
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.		
Articulation Agreements		
Post-Secondary Institution	Number of Courses	Credits Awarded
Rosedale Technical College	C-100-102 Auto Body Repair	8.6 credits
Ohio Technical College	2 Available Modules	8.5 credits per module
Automotive Technology		
Possible Workforce Industry Certifications		
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
Program Description		
The Automotive Technology Program is certified by the National Automotive Technology Education Foundation (NATEF) and affiliated with all the major automotive manufacturers through Automotive Youth Educational Systems. 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 electrical systems. Special emphasis is placed on troubleshooting an 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 apprentices working under mentor master technicians. Students can earn certifications from AYES, the National Institute for Automotive Service Excellence (ASE) and the Coordinating Committee for Automotive Repair (CCAR).		
Articulation Agreements		
Post-Secondary Institution	Number of Courses	Credits Awarded
Rosedale Technical College	AD100 Gasoline Engine Components	4.5 credits
	AD101 Electrical Systems Analysis	4.5 credits
CCAC (STAR Articulation)	ATE103 Auto Systems/Minor Service	3 credits
	ATE130 Automotive Brake Systems	3 credits
University of Northwestern Ohio	AU126 Suspension and Steering	6 credits
	AU127 Hydraulic Brake Systems	6 credits
Cosmetology		
Possible Workforce Industry Certifications		
PA Licensed Cosmetologist PA Licensed Nail Technician Certificate	PA Licensed Cosmetology Instructor License SP2	OSHA

Program Description		
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. This 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 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 to four years will have the opportunity to earn 1,250 hours of 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 this program, may choose from the following specialized licensed 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 complete within one year. An individual holding a teacher's license is qualified to perform the functions of a teacher in whichever specialized area the individual has obtained licensure.		
Articulation Agreements		
Post-Secondary Institution	Number of Courses	Credits Awarded
Empire Education Group	Potential Hours Awarded if earned at PWCTC	up to 450 hours
CCAC (STAR Articulation)	BAR104 Principles of Barbering	4-6 credits
Culinary Arts		
Possible Workforce Industry Certifications		
ServSafe Certificate CPR Certificate	ACF Certified Fundamental Cook S/P 2 Culinary	OSHA Food Service Certification PA Skills Certificate
Program Description		
Culinary Arts 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 the Parkway West Food Store, where pastries and select meats are sold. Students learn to design cakes and prepare many different types of cuisine. Senior students who have completed at least two years of Culinary Arts will have the opportunity to earn both the National Restaurant Associations, ServSafe certification and the American Culinary Federation certification. Other certifications that can be earned from the Culinary Arts program include OSHA 10 Culinary, SP2, Heart Saver CPR, and Heart Saver First Aid.		
Articulation Agreements		
Post-Secondary Institution	Number of Courses	Credits Awarded
Pittsburgh Technical College	Baking and Pastry Culinary Arts	3 credits 9 credits
CCAC (STAR Articulation)	CLR100 Food Service & Sanitation	3 credits
	CLR117 Fundamentals of Culinary Skill	3 credits
	CLR201 Baking	3 credits
	CLR202 Basic Garde Manger Techniques	3 credits
Construction Technology Cluster		
*Construction Cluster students will spend 9 weeks in each of the programs below. Students will then choose a program concentration after his/her first year. The construction cluster programs include Carpentry, Electrical Systems Technology, HVAC/R, and Welding Technology.		
Carpentry		
Possible Workforce Industry Certifications		
OSHA 10 Hour Certificate	NCCER	PA Skills Certificate
Program Description		
A student in the Carpentry 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, 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. Students have the potential to earn 17 certifications through NCCER.		
Articulation Agreements		
Post-Secondary Institution	Number of Courses	Credits Awarded
Triangle Tech	CP110 Const. Trades & Tool Safety	4.5 credits
	CP111 Blueprint Reading	2 credits
	CP112 Excavation & Sitework	2 credits
	CP113 Floor Framing	2 credits
	CP114 Wall Framing	2 credits
	CP235 Exterior Finish	3 credits
Electrical Systems Technology		
Possible Workforce Industry Certifications		
OSHA 10 Hour Certificate PA Skills Certificate	NCCER	PA Skills Certificate
Program Description		
The Electrical Systems Technology Program 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		

troubleshooting of electrical systems. Understanding programmable logistical controls (PLC's) and how transformers operate are also covered. Students have the opportunity to earn 20 certifications through NCCER.

Articulation Agreements

Pittsburgh Technical College (Smart Building Technology)	SPT118 Structured Wiring	4 credits
Pittsburgh Technical College (Electrician Technology)	ELC100 Math for Electricians ELC110 Electricity 1 ELC130 Blueprint Reading	

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

Possible Workforce Industry Certifications

OSHA 10 Hour Certificate ESCO Section 608 EPA Certification	Gastite Certification TRAC-Pipe Certification	PA Skills Certificate
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Program Description

Heating, Ventilation, Air-Conditioning, and Refrigeration, 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. Students can earn the NCCER certifications Core, Type 1 and Type 2. They can also earn EPA Section 608 Refrigeration and Gas Tight Certification for CSST pipe.

Articulation Agreements

Triangle Tech, Inc.	Credit for advanced standing placement tests scored at 75% higher	
Pittsburgh Technical College	HVA108 Fundamentals of Electricity HVA133 Residential Refrigeration	5 credits 6 credits
Rosedale Technical College	H101 Refrigeration Principles H104 Electricity R104 Computer Concepts	4.5 credits 4 credits 4.5 credits

Welding Technology

Possible Workforce Industry Certifications

OSHA 10 Hour Certificate AWS Vertical Certified Welding ASME B31.1 Certificate NCCER Core	NCCER Welding Level 1 FCAW D1.1, 1.5-1G, 2G, 3G & 4G SMAW D1.1, 1.5-1G, 2G, 3G & 4G	AWS D 1.2 AWS D 1.6 PA Skills Certificate
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Program Description

The Welding Program covers several types of 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.

Articulation Agreements

Pittsburgh Technical College	WEL115 Metal Cutting & Fabrication WEL125 Blueprint Reading & Symbols WEL400 Gas Metal Arc Welding	3 credits 3 credits 3 credits
Triangle Tech	WD110 Introduction to Arc Welding Processes WD111 Fuel Gas Processes & Industrial WD115 Plasma Arc Cutting & Temp.	3 credits 4 credits 1 credit
Rosedale Technical College	W104 Welding Print Reading W204 Non-Ferrous Welding W206 Welding Inspection & Testing	2.5 credits 1 credit 1 credit

Cyber Security and Networking Technology

Possible Workforce Industry Certifications

CompTIA IT Fundamentals CompTIA Security + Certification CCISCO CCENT	CISCO CCNA Certificate CompTIA A+ Certificate	CompTIA Network+ Certificate PA Skills Certificate
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Program Description

The Cyber Security and Networking Technology Program prepares students who are interested in networking and computer diagnostics. It begins with Cisco IT Essentials, PC Hardware and software, and networking operating systems. Students initially prepare for CompTIA A+ and CompTIA Server + certifications and then, through 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.

Articulation Agreements

Post-Secondary Institution	Number of Courses	Credits Awarded
Pittsburgh Technical College (Information Technology)	ITA104 Intro to Information Technology ITA126 Networking 1	4 credits 4 credits
Pittsburgh Technical College	ITP253 Intro to Computer Systems	4 credits

(Computer Programming)		
CCAC (STAR Articulation)	CIT115 Information Technology Fundamentals CIT150 Computer Configuration & Support CIT120 Networking Concepts	3 credits 3 credits 3 credits
ITT Technical Institute	GEI184 Problem Solving TB143 Introduction to Personal Computers IT103 Operating Systems IT109 Microsoft Desktop Operating System	4 credits 4 credits 4 credits 4 credits

Diesel Technology

Possible Workforce Industry Certifications

PA State Inspection

Fork Lift Operator

SP/2 Mechanical Safety Certification

Program Description

Diesel Technology is part of 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. Students will learn the fundamentals of hydraulics and have the opportunity to earn an Air Conditioning Recovery Certification. Students can earn certifications from the National Institute for Automotive Service Excellence (ASE), Refrigeration 609, Class I & III State Inspection, Forklift Operations.

Articulation Agreements

Post-Secondary Institution	Number of Courses	Credits Awarded
Rosedale Technical College	DD101 Preventative Maintenance DD104 Air Brakes & Braking System	4.5 credits 5 credits

Graphic Design & Production Technology

Possible Workforce Industry Certifications

PA Skills Certificate

Adobe Certified Associate in Visual
Communication Certificate

Adobe Certified Associate in Rich Media
Certificate

Adobe Certified Associate in Web
Communication Certificate

Program Description

Graphic Arts & Production Technology is an instructional program that prepares individuals to apply technical knowledge and skills to plan, prepare and execute commercial and industrial visual image and print products using mechanical and digital graphic and printing equipment. Students learn desktop publishing, layout, composition, digital printing, bindery, photography and other graphic arts techniques. Emphasis is on typographical layout and design using computer graphics, digital printing, bindery and finishing techniques, ink, and color preparation. Students will also learn large format digital printing with application of a variety of output and vinyl applications including heat press and apparel design.

Articulation Agreements

Post-Secondary Institution	Number of Courses	Credits Awarded
CCAC (STAR Articulation)	CIT125 Web Development MMC111 Digital Design for Multimedia MMC112 Audio/Video Production Multimedia	3 credits 3 credits 3 credits
Pittsburgh Technical College (Graphic Design)	GDA118 Compositional Drawing GDA150 Behavioral Design	1 credit 3 credits
Pittsburgh Technical College (Multimedia Technologies)	GDA118 Compositional Drawing GDA150 Behavioral Design	1 credit 3 credits

Healthcare Occupations Technology

Possible Workforce Industry Certifications

Phlebotomy Technician Certification (CPT):

Program Description

The Health Occupations Technology Programs provides students with 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 childcare, 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 Healthcare Providers" certification and the following certifications in relation to the Health Care industry: 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, 12th 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 towards 12th grade students. Module and lab work includes anatomy and physiology, infection control, safety and compliance, patient preparation, collection techniques, and processing collected samples. Students must demonstrate a minimum of 30 successful Venipunctures and 10 successful capillary punctures.

Articulation Agreements

Post-Secondary Institution	Number of Courses	Credits Awarded
CCAC (STAR Articulation)	Nursing & Allied Health Programs	3 credits
Pittsburgh Technical College	MED111 Clinical Techniques 1	4 credits
Power MotorSports		
Possible Workforce Industry Certifications		
PA Emissions Certificate	S/P2	OSHA 10
Program Description		
Power Motorsports Technology teaches students to diagnose, maintain and repair utility vehicles, all-terrain vehicles, including side-by-sides, motorcycles, watercrafts as well as outdoor power machines, including lawn and garden equipment. Students will learn the principles of engine operation, understand basic electricity, service and maintain fuel and carburetor systems, transmissions, and powertrain systems used on various types of recreational and lawn & garden equipment.		
Articulation Agreements		
Post-Secondary Institution	Number of Courses	Credits Awarded
N/A		
Public Safety Technology		
Possible Workforce Industry Certifications		
Emergency Medical Technician Basic (EMT-B)	PA Essentials of Firefighting Hazardous Materials Awareness and Operations	Basic Rigging for Rope Rescue Tactical Handcuffing
Program Description		
The Public Safety Technology Program focuses on careers relating to emergency medical services, firefighting, 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 situation/management, hazardous materials handling, pre-hospital medical care, map reading, firefighting, the judicial system, and emergency dispatching.		
Articulation Agreements		
Post-Secondary Institution	Number of Courses	Credits Awarded
Pittsburgh Technical College (Criminal Justice)	SSA100 Introduction to Criminology SSA110 Introduction to Policing	4 credits 4 credits
CCAC (STAR Articulation) (Criminal Justice & Criminology)	CJC102 Introduction to Corrections CJC206 Police Operations	3 credits 3 credits
CCAC (STAR Articulation) (Homeland Security)	HLS101 Introduction to Homeland Security FSA102 Principles of Emergency Services	3 credits 3 credits
Sports Medicine & Rehabilitation Therapy Technology (SMARTT)		
Possible Workforce Industry Certifications		
SCSM Certified Personal Trainer	CPT Credential	
Program Description		
The Sports Medicine and Rehabilitation Therapy Technology (SMARTT) Program prepares students to work in the field of physical therapy, occupational therapy and sports medicine. Students will develop skills in prevention, assessment, prognosis, and rehabilitation of injuries and other health conditions. Students will learn the principles of developing a plan of care, including evaluation, interventions, assessment, goal setting and discharge. Students will also learn how to develop a diet for healthy individuals and for special populations through a comprehensive understanding of nutrition.		
Articulation Agreements		
Post-Secondary Institution	Number of Courses	Credits Awarded
California University of PA	HSC101 Foundations in Health Science HSC225 Medical Terminology HSC315 CPR & Personal Safety	2 credits 2 credits 3 credits
Veterinary Assistant Technology		
Possible Workforce Industry Certifications		
NAVTA OSHA 10	Agriculture OSHA 10 Healthcare	Pet Tech First Aid CPR
Program Description		
In the Veterinary Assistant Technology Program, students will learn to keep medical records, schedule appointments, offer client education, practice laboratory procedures, assist with nursing duties, prepare animals for surgeries, and assist during routine physical exams. 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, Veterinary Assistant, Kennel Assistant, Groomers, Animal Control, Veterinary Technician, Veterinary Technologist and Veterinarian.		
Articulation Agreements		
Post-Secondary Institution	Number of Courses	Credits Awarded
California University of PA	VET101 Intro to Veterinary Technician	3 credits
Harcum College	VET102 Intro to Vet Tech	3 credits
Manor College	VET112 Breeds and Behavior	1 credit

West Allegheny Virtual Academy WAVA

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 and college readiness.

Hybrid: The hybrid option is available for students in grades 9-12. It provides students with flexible scheduling. Students can select to spend a portion of their day attending in-person classes with their peers while completing other classes online.

Summer Enrichment: The Summer Enrichment Program is offered to students who wish to advance academically by taking courses over the summer. These courses may fulfill core subject requirements for graduation. A one (1) credit course is a full-year of study, and students should allow enough time to complete the work during the shorter summer session. There is an associated fee for summer enrichment courses.

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 may earn a West Allegheny diploma and participate in the WAHS commencement exercises upon completion of the graduation requirements.

WAVA courses are available 24 hours a day, seven days a week and are taught by highly qualified, PA certified West Allegheny teachers. WAVA is free to all West Allegheny students during the academic school year. Students interested in enrolling in WAVA should contact their school counselor for more information.

West Allegheny Learning Center WALC

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 career and college 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 and 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 are a primary focus in conjunction with the Parkway West Career and Technology Center, JROTC and approved work study programs.

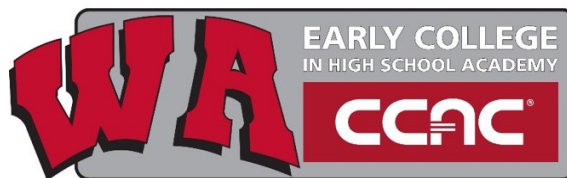
ON-LINE LEARNING

The WALC program incorporates the same coursework and assessments as the WAVA program through the Edmentum software. Edmentum 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 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 topics teenagers commonly face 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.

Early College in High School Academy for Students with Disabilities



West Allegheny High School has partnered with the Community College of Allegheny County (CCAC) Workforce Development department to offer two Early College in High School Academy (ECIHA) concurrent enrollment programs to our students with disabilities: Food Service Training Program & Environmental Services/Janitorial Training Program. These programs will allow students the opportunity to develop valuable vocational skills through their high school course work to be applied to a non-credit certificate issued by CCAC at the completion of the program. Each of these programs is intended to prepare students for a career in the corresponding field.

West Allegheny



Early College In
High School Academies



Through West Allegheny's hallmark Early College In High School Academy, the District is proud to partner with regional institutions of higher education to remove notable barriers for our students and provide unparalleled opportunities to gain a jump start on their post secondary plans.

By offering college level courses while still in high school, our students have the unique opportunity to earn associate degrees, certificates and credits toward bachelor's and master's degrees by the time they graduate from West Allegheny.

Offering both concurrent and dual enrollment, this access provides dramatically discounted tuition costs for our families while acquiring up to two years' worth of college courses.

Students who qualify for Free/Reduced Lunch or Special Education Services are eligible for a scholarship from West Allegheny School District.





28 Early College Programs Offered:

CCAC

Multimedia Programming, Simulation & Gaming *
 Multimedia Game Simulation +
 Mechatronics Technology +
 General Studies *
 General Education +

RMU

Early Childhood Education ^
 Business Administration ^
 Business +
 Engineering ^
 Cybersecurity ^
 Cybersecurity Fundamentals +
 Special Education ^

PTC

Nursing *
 Surgical Technology *
 Practical Nursing +
 Therapeutic Massage Practitioner +
 Electrician Technology +
 Welding Technology * +
 HVAC Technology * +
 CAD Mechanical Engineering Technology *
 CAD Architectural Engineering Technology *
 Robotics & Autonomous Engineering Technology *

CCBC

Aerospace Management *
 Air Traffic Controller *
 Professional Pilot *

RTC

Automotive Technology *
 Collision Repair Technology *
 Diesel Technology *

By the Numbers

- 28** Total College Programs
- 231** Total Concurrent Credits (CCAC, RMU & PTC)
- 576** Total Dual Enrollment Credits (PTC, CCBC & Rosedale)
- 807** Total College Credits Available Prior to WA Graduation
 - 5** CCAC Programs & **136** College Credits
 - 7** RMU Programs & **85** College Credits
 - 10** PTC Programs & Up To **401** College Credits Prior to WA Graduation
 - 3** CCBC Programs & Up To **63** College Credits Prior to WA Graduation
 - 3** RTC Programs & Up To **112** College Credits Prior to WA Graduation
- 51** WA Courses Include **42** CCAC & **29** RMU & **3** PTC Courses
- 29** WA Teachers Certified as CCAC & RMU Affiliated Professors

Since 2018

Credits Earned



13,400+

Tuition Saved



\$3M+

Degrees Earned



**29 Associate
28 Certificates**

Students have multiple access points to ECIHSA programs starting in any year of high school.



In 2018, West Allegheny School District launched a strategic partnership with the Community College of Allegheny County to offer high demand college programs at significantly reduced tuition rates. This program has now grown to offer **five concurrent CCAC programs** taught by West Allegheny teachers, allowing West Allegheny students to earn Associate Degrees, College Certificates and college credits **while still in high school**.

Collectively Offering:

- 5 Concurrent Programs
- In 25 WA Courses, Students May Complete 42 CCAC Courses While in High School
- 136 College Credits Available

Significant Tuition Savings

- \$122 per course vs. \$122 per credit

2 Associate Degrees:

- **Multimedia Programming, Simulation & Gaming**
In 13 West Allegheny Courses, Students Can Earn 59-63 CCAC and 3 RMU Credits*
- **General Studies**
In 10-19 West Allegheny Courses, Students Can Earn 60-62 College Credits*

*Credits earned prior to WA graduation



3 Certificates:

- **Mechatronics Technology**
In 5 West Allegheny Courses, Students Can Earn 30 College Credits*
- **Multimedia Game Simulation**
In 6 WA Courses, Students Can Earn 18 CCAC and 3 RMU Credits*
- **General Education**
In 7-9 West Allegheny Courses, Students Can Earn 33-36 College Credits*

*Credits earned prior to WA graduation

Multimedia Game Simulation

West Allegheny's ECIHSA Multimedia Game Simulation program encompasses the Multimedia Programming, Simulation, & Gaming Associate Degree, and Multimedia Game Simulation Certificate. Students enrolled in this program are exposed to industry standard hardware, software and development pipelines, beginning with frameworks and project practices, then move into design and implementation.

Students can earn an Associate Degree in 3 or 4 years while in high school with 66 College Credits available.

ECIHSA Tuition while in High School	\$2,574
CCAC Tuition w/out ECIHSA	\$7,589
APPROXIMATE COST SAVINGS	\$5,015

Mechatronics Technology

Mechatronics is a growing field that requires the technical skills necessary to work with industrial robots, programmable logic controllers and other automated equipment. 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.

Students can earn a Certificate in 2, 3 or 4 years while in high school with 30 College Credits available.

ECIHSA Tuition while in High School	\$1,245
CCAC Tuition w/out ECIHSA	\$3,660
APPROXIMATE COST SAVINGS	\$2,415

General Studies

This distinct opportunity allows our students to complete their first year or two of college by earning an Associate Degree or College Certificate while also attaining a WA high school diploma. The General Studies program provides the foundations of a baccalaureate liberal arts degree.

Course Credit Transfer Opportunities:
Students should select specialized courses within their major field of concentration as identified by their transfer college or university.

Students can earn an Associate Degree in 3 or 4 years.

ECIHSA Tuition while in High School	\$2,343
CCAC Tuition w/out ECIHSA	\$7,320
APPROXIMATE COST SAVINGS	\$4,977





In its ever-expanding portfolio of credit and course offerings, West Allegheny is pleased to partner with Robert Morris University to offer **seven concurrent RMU programs** taught by West Allegheny teachers **while still in high school**. West Allegheny students in good standing during their ECIHSA enrollment, will automatically gain acceptance into RMU's undergraduate degree program. Several Engineering and Business Administration concentrations are offered.

Collectively Offering:

- 7 Concurrent Programs
- In 24 WA Courses, Students May Complete 29 RMU Courses While in High School
- 85 College Credits Available

Significant Tuition Savings:

- \$250 per course vs. \$1,040 per credit

Accelerated Bachelor's Degree Programs & Certificates:

- **Cybersecurity Fundamentals Certificate**
3 West Allegheny Courses = 15 RMU Credits
Students can earn a certificate in 2 years while in high school.*
- **Cybersecurity Accelerated Bachelor's Degree Program**
7-8 West Allegheny Courses = 27-30 RMU Credits
5-6 West Allegheny Courses = 23-30 CCAC Credits
Total Available = Up to 57 College Credits*
- **Early Childhood Education Accelerated Bachelor's Degree Program**
9-10 West Allegheny Courses = 33-36 RMU Credits
4-5 West Allegheny Courses = 16-24 CCAC Credits
Total Available = Up to 60 College Credits*
- **Special Education Accelerated Bachelor's Degree Program**
8-9 West Allegheny Courses = 30-33 RMU Credits
4-5 West Allegheny Courses = 16-24 CCAC Credits
Total Available = Up to 54 College Credits



- **Engineering Bachelor's Degree**
11-12 West Allegheny Courses = 34-37 RMU Credits
6-7 West Allegheny Courses = 31-34 CCAC Credits
Total Available = Up to 68 College Credits*
- **Business Certificate**
4 West Allegheny Courses = 13 RMU Credits
Students can earn a certificate in 2 years while in high school.*
- **Business Administration Bachelor's Degree**
10-11 West Allegheny Courses = 31-34 RMU Credits
5-6 West Allegheny Courses = 16-26 CCAC Credits
Total Available = Up to 60 College Credits

Corresponding Master's Degrees:

- **Engineering (MEM)**
- **Business Administration (MBA)**

*Credits earned prior to WA graduation

Following graduation from West Allegheny, ECIHSA students may be eligible to earn a master's degree in Engineering (MEM) or Business Administration (MBA) **in only three years**. Several Engineering and Business Administration concentrations are offered by RMU.

Business Administration

The Business Administration program is educating tomorrow's business leaders and preparing them to succeed in the global market. West Allegheny's program sets students on a fast track to complete a bachelor's degree in as little as two years and a master's degree in as little three years after high school graduation.

Students can complete up to 60 college credits out of 120 while still in high school with 4 to 5 semesters remaining after graduation to earn a bachelor's degree.

ECIHSa Tuition While in High School	\$10,922
Tuition without ECIHSA	\$62,400
TOTAL COST SAVINGS	\$51,478

Additional Semesters to Earn Masters: 2 (30 credits)

Early Childhood Education

The B.S. in Early Childhood Education degree program prepares students for careers in teaching, serving pupils from pre-kindergarten through 4th grade in schools, childcare settings, and child-focused agencies. The professional core courses, competencies, and experiences develop teachers who are prepared to serve children and their families.

Students can complete up to 60 college credits out of 120 while still in high school, with 5-6 semesters remaining after graduation to earn a bachelor's degree.

ECIHSa Tuition While in High School	\$11,178
Tuition without ECIHSA	\$62,400
TOTAL COST SAVINGS	\$51,222

Special Education



The Bachelor of Science in Special Education program prepares candidates with the knowledge base, skills, and competencies necessary to meet the needs of students with disabilities in multiple settings. Graduates are prepared to teach students with disabilities in grades PreK-12.

Students can complete up to 54 college credits out of 120 while still in high school, with 4-5 semesters remaining after graduation to earn a bachelor's degree.

ECIHSa Tuition While in High School	\$10,428
Tuition without ECIHSA	\$56,160
TOTAL COST SAVINGS	\$45,732

Engineering

Western Pennsylvania is witnessing a rebirth in manufacturing, thanks to the region's booming energy industry. The demand for highly educated graduates with hands-on experience has never been greater. West Allegheny's program sets students on a fast track to complete a bachelor's degree in as little as two years and a master's degree in as little three years after high school graduation. Students will be prepared for success in such fields as engineering, actuarial science, applied mathematics, biology, and environmental science.

Students can complete up to 68 college credits out of 126 while still in high school with 4-5 semesters remaining after graduation to earn a bachelor's degree.

ECIHSa Tuition While in High School	\$12,648
Tuition without ECIHSA	\$70,720
TOTAL COST SAVINGS	\$58,072

Additional Semesters to Earn Masters: 2 (30 credits)

Cybersecurity

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 can earn a certificate in cybersecurity before high school graduation. Additionally, the fast track to a bachelor's degree provides students the opportunity to earn up to 57 credits through their West Allegheny courses.

ECIHSa Tuition While in High School	\$10,410
Tuition without ECIHSA	\$59,280
TOTAL COST SAVINGS	\$48,870



Through the Early College In High School Academy - **Health Sciences Academy**, Pittsburgh Technical College offers **four PTC dual enrollment programs** and up to 159 College Credits for students to earn **prior to graduating high school**.

Through dual enrollment courses, students will be working with PTC instructors from the healthcare field in which they teach. They're passionate about helping patients—and helping to equip their students with the skills and knowledge to find success.

Collectively Offering:

- 4 Dual Enrollment Health Sciences Programs

Significant Cost Savings:

- \$100 per credit vs. \$260-370 per credit

2 Associate Degrees:

• **Nursing - 2 Options**

51 of 120 Credits Earned Prior to WA Graduation

- 3 years during high school - start sophomore year with 1 year at PTC after high school (July PTC graduation)
- 2 years during high school - start junior year with 1 year at PTC after high school (July PTC graduation)

• **Surgical Technology - 2 Options**

53 of 102 Credits Earned Prior to WA Graduation

- 3 years during high school - start sophomore year with 1 year at PTC after high school (July PTC graduation)
- 2 years during high school - start junior year with 1 year at PTC after high school (July PTC graduation)

2 College Certificates:

• **Practical Nursing - 2 Options**

Earn 67 of 84 Credits Prior to WA Graduation

- 2 years during high school - start junior year with 1 quarter at PTC after high school (July-Oct. PTC graduation)
- 1 year during high school - start senior year with 1 quarter at PTC after high school (July-Oct. PTC graduation)

• **Therapeutic Massage Practitioner - 2 Options**

Earn 53 of 52 Credits Prior to WA Graduation

- 2 years during high school - start junior year with 1 quarter at PTC after high school (Oct. PTC graduation)
- 1 year during high school - start junior year with 1 quarter at PTC after high school (July PTC graduation)

Nursing

Identified as one of the most in demand careers, the ECIHSA Nursing (RN) program introduces students to the respected and compassionate profession of delivering quality care to patients. The curriculum consists of time spent learning in the classrooms, nursing laboratories, and some of Western Pennsylvania's largest healthcare facilities.

2 Program Options to Earn Associate Degree:

- **3 years in high school + 1 year at PTC**

ECIHSA Tuition While in High School	\$5,229
Tuition After High School	\$24,230
TOTAL ECIHSA TUITION	\$29,459

Tuition without ECIHSA	\$48,970
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TOTAL COST SAVINGS	\$19,511
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- **2 years in high school + 1 year at PTC**

ECIHSA Tuition While in High School	\$5,229
Tuition After High School	\$24,230
TOTAL ECIHSA TUITION	\$29,459

Tuition without ECIHSA	\$48,970
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TOTAL COST SAVINGS	\$19,511
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Practical Nursing

Always in demand, practical nurses (PN) are vital members of a team of professionals working with patients. Graduates are prepared to enter the profession in a region that continues to grow as a healthcare hub that offers a diverse range of nursing opportunities.

2 Program Options to Earn College Certificate:

- **2 years in high school + 0.25 years at PTC**

ECIHSA Tuition While in High School	\$6,700
Tuition After High School	\$5,800
TOTAL ECIHSA TUITION	\$12,500

Tuition without ECIHSA	\$25,770
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TOTAL COST SAVINGS	\$13,270
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- **1 year in high school + 0.25 years at PTC**

ECIHSA Tuition While in High School	\$6,800
Tuition After High School	\$5,800
TOTAL ECIHSA TUITION	\$12,600

Tuition without ECIHSA	\$25,880
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TOTAL COST SAVINGS	\$13,280
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Surgical Technology

In the ECIHSA Surgical Technology Associate Degree Program, students work alongside surgeons, anesthesiologists, registered nurses and others, playing a crucial role in providing patient care before, during and after a surgical procedure.

2 Program Options to Earn Associate Degree:

- **3 years in high school + 1 year at PTC**

ECIHSA Tuition While in High School	\$4,329
Tuition After High School	\$21,300
TOTAL ECIHSA TUITION	\$25,629

Tuition without ECIHSA	\$41,650
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TOTAL COST SAVINGS	\$16,021
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- **2 years in high school + 1 year at PTC**

ECIHSA Tuition While in High School	\$4,329
Tuition After High School	\$21,300
TOTAL ECIHSA TUITION	\$25,629

Tuition without ECIHSA	\$41,650
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TOTAL COST SAVINGS	\$16,021
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Therapeutic Massage Practitioner

In the ECIHSA Massage Therapist Program, students learn from instructors who have worked in the profession. Students garner up-to-date insights on current trends and products in preparation to enter a field where the demand is growing along with recognition of its physical and emotional benefits.

1 Program Option to Earn Associate Degree

- **1 year in high school + 0.25 years at PTC**

ECIHSA Tuition While in High School	\$5,300
Tuition After High School	\$2,790
TOTAL ECIHSA TUITION	\$8,090

Tuition without ECIHSA	\$18,370
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TOTAL COST SAVINGS	\$110,280
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Through the Early College In High School Academy - **Skilled Trades Academy**, Pittsburgh Technical College offers **six PTC dual enrollment programs** and up to 242 College Credits for students to earn **prior to high school graduation**.

Through dual enrollment courses, students will learn in real world, hands-on environments with PTC instructors who are ready and able to share everything they've learned working in the field.

Collectively Offering:

- 6 Dual Enrollment Skilled Trades Programs

Significant Cost Savings:

- \$100 per credit vs. \$260-370 per credit

5 Associate Degrees:

• CAD Mechanical Engineering -

Earn up to 78 of 94 Credits Prior to WA Graduation

- 2 years in high school - start junior year with 1 quarter at PTC after WA (Oct. PTC grad.)
- 1 year in high school - start senior year with 2 quarters at PTC after WA (Jan. PTC grad.)

• CAD Architectural Engineering -

Earn up to 78 of 94 Credits Prior to WA Graduation

- 2 years in high school - start junior year with 1 quarter at PTC after WA (Oct. PTC grad.)
- 1 year in high school - start senior year with 2 quarters at PTC after WA (Jan. PTC grad.)

• HVAC - 2 Options

Earn up to 84 of 106 Credits Prior to WA Graduation

- 2 years in high school - start junior year with 2 quarters at PTC after WA (Jan. PTC grad.)
- 1 year in high school - start senior year with 3 quarters at PTC after WA (April PTC grad.)

• Welding - 2 Options

Earn up to 81 of 109 Credits Prior to WA Graduation

- 2 years in high school - start junior year with 2 quarters at PTC after WA (January PTC grad.)
- 1 year in high school - start senior year with 3 quarters at PTC after WA (April PTC grad.)

• Robotic & Autonomous Engineering Technology - 2 Options

Earn up to 73 of 94 Credits Prior to WA Graduation

- 2 years in high school - start junior year with 2 quarters at PTC after WA (January PTC grad.)
- 1 year in high school - start senior year with 3 quarters at PTC after WA (April PTC grad.)



3 College Certificates:

• Electrician - 2 Options

Earn up to 62 of 74 Credits Prior to WA Graduation

- 2 years during high school - start junior year with 1 quarter at PTC after high school (October PTC graduation)
- 1 year during high school - start senior year with 2 quarters at PTC after high school (January PTC graduation)

• HVAC - 2 Options

Earn up to 68 of 77 Credits Prior to WA Graduation

- 2 years during high school - start junior year with 1 quarter at PTC after high school (October PTC graduation)
- 1 year during high school - start senior year with 2 quarters at PTC after high school (January PTC graduation)

• Welding - 2 Options

Earn up to 52 of 57 Credits Prior to WA Graduation

- 2 years during high school - start junior year (April PTC graduation)
- 1 year during high school - start senior year with 1 quarter at PTC after high school (October PTC graduation)

Computer Aided Drafting

Focusing on project learning as a key teaching methodology, students are provided the opportunity to share in real-world experiences with faculty members and employers. Students will be exposed to a diverse array of software platforms allowing for a wide variety of employment options. Two in demand Computer Aided Drafting concentrations have been created to meet career demand: Architectural Engineering Technology and Mechanical Engineering Technology.

Architectural Engineering Technology

2 Program Options to Earn an **Associate Degree**:

- **2 years in high school + 0.25 years at PTC**

ECIHSA Tuition While in High School	\$6,213
Tuition After High School	\$5,040
TOTAL ECIHSA TUITION	\$11,253

Tuition without ECIHSA	\$37,200
TOTAL COST SAVINGS	\$25,947

- **1 year in high school + 0.5 years at PTC**

ECIHSA Tuition While in High School	\$5,113
Tuition After High School	\$9,560
TOTAL ECIHSA TUITION	\$14,673

Tuition without ECIHSA	\$37,200
TOTAL COST SAVINGS	\$22,527

Mechanical Engineering Technology

2 Program Options to Earn an **Associate Degree**:

- **2 years in high school + 0.25 years at PTC**

ECIHSA Tuition While in High School	\$6,197
Tuition After High School	\$5,040
TOTAL ECIHSA TUITION	\$11,237

Tuition without ECIHSA	\$37,200
TOTAL COST SAVINGS	\$25,963

- **1 year in high school + 0.5 years at PTC**

ECIHSA Tuition While in High School	\$5,097
Tuition After High School	\$9,560
TOTAL ECIHSA TUITION	\$14,657

Tuition without ECIHSA	\$37,200
TOTAL COST SAVINGS	\$22,543

Welding Technology

In the Welding Technology program, students start with the fundamentals, then move on to advanced pipe and plate welding to become technically skilled professionals. Working with the same materials found in the industry, students build the critical thinking, human relations and communications skills needed for a successful career.

2 Program Options to Earn an **Associate Degree**:

- **2 years in high school + 0.5 years at PTC**

ECIHSA Tuition While in High School	\$7,063
Tuition After High School	\$8,670
TOTAL ECIHSA TUITION	\$15,733

Tuition without ECIHSA	\$35,160
TOTAL COST SAVINGS	\$19,427

- **1 year in high school + 0.75 years at PTC**

ECIHSA Tuition While in High School	\$5,463
Tuition After High School	\$13,910
TOTAL ECIHSA TUITION	\$19,373

Tuition without ECIHSA	\$35,160
TOTAL COST SAVINGS	\$15,787

HVAC Technology

Students will learn to master the fundamentals of heating, ventilation, refrigeration and air conditioning through the HVAC Technology program. Through practical and hands-on learning, students will use critical thinking to gain real-world experience.

The program teaches both the theory and mechanics of HVAC equipment, which will help students earn key certifications and industry credentials.

2 Program Options to Earn an **Associate Degree**:

- **2 years in high school + 0.5 years at PTC**

ECIHSA Tuition While in High School	\$7,363
Tuition After High School	\$6,510
TOTAL ECIHSA TUITION	\$13,873

Tuition without ECIHSA	\$31,470
TOTAL COST SAVINGS	\$17,597

- **1 year in high school + 0.75 years at PTC**

ECIHSA Tuition While in High School	\$6,063
Tuition After High School	\$12,460
TOTAL ECIHSA TUITION	\$18,523

Tuition without ECIHSA	\$33,320
TOTAL COST SAVINGS	\$14,797



Robotic & Autonomous Engineering Technology

NEW

Students will master the technical know-how of the growing field of robotic and autonomous engineering as they explore exciting machine learning applications for medicine, healthcare, driving, drones and more. Service Engineer Technicians (SETs) are the talented, skilled doers who maintain and customize robotic or autonomous systems.

2 Program Options to Earn an **Associate Degree**:

- **2 years in high school + 0.5 years at PTC**

ECIHSA Tuition While in High School	\$5,913
Tuition After High School	\$10,450
TOTAL ECIHSA TUITION	\$16,363

Tuition without ECIHSA	\$40,760
TOTAL COST SAVINGS	\$24,397

- **1 year in high school + 0.75 years at PTC**

ECIHSA Tuition While in High School	\$4,713
Tuition After High School	\$15,490
TOTAL ECIHSA TUITION	\$20,203

Tuition without ECIHSA	\$40,310
TOTAL COST SAVINGS	\$20,107

Electrician Technology

In the Electrician Technology program, students will gain a working knowledge of electrical and safety standards and the opportunity to earn industry credentials. This unique program integrates practical electrical systems into the curriculum to teach students about every kind of power generation and distribution equipment.

2 Program Options to Earn a **College Certificate**:

- **2 years in high school + 0.25 years at PTC**

ECIHSA Tuition While in High School	\$6,200
Tuition After High School	\$3,720
TOTAL ECIHSA TUITION	\$9,920

Tuition without ECIHSA	\$24,400
TOTAL COST SAVINGS	\$14,480

- **1 year in high school + 0.5 years at PTC**

ECIHSA Tuition While in High School	\$4,700
Tuition After High School	\$8,670
TOTAL ECIHSA TUITION	\$13,370

Tuition without ECIHSA	\$24,100
TOTAL COST SAVINGS	\$10,730



Through the Early College In High School Academy - **Aviation Academy**, West Allegheny High School students have the opportunity to explore **three CCBC dual enrollment programs**: Professional Pilot, Air Traffic Control, and Aerospace Management career paths **prior to high school graduation**. Students will gain hands-on experience while taking courses taught by CCBC instructors.

Collectively Offering:

- 3 Dual Enrollment Aviation Programs

Significant Cost Savings:

- \$255 per credit vs. \$427 per credit

3 Associate Degrees:

- Aerospace Management
59 of 64 Credits Earned Prior to WA Graduation
 - 2 years during high school - start junior year with 1 semester at CCBC after high school
- Air Traffic Control
37 of 71 Credits Earned Prior to WA Graduation
 - 2 years during high school - start junior year with 2 years at CCBC after high school
- Professional Pilot
41 of 66 Credits Earned Prior to WA Graduation
 - 2 years during high school - start junior year with 1 year at CCBC after high school

Air Traffic Control

The Air Traffic Control program provides training in the application of non-radar/radar air traffic control procedures as well as control tower operator training and experience.

Graduates in Air Traffic Control may look forward to a career as an air traffic control specialist with the federal government, private industry, or military services. Additional opportunities exist in rapidly expanding fields of general and commercial aviation.

Program to Earn an Associate Degree:

- **2 years in high school + 2 years at CCBC**

ECIHS Tuition While in High School	\$7,887
Tuition After High School	\$18,361
TOTAL ECIHS TUITION	\$26,248

Tuition without ECIHS	\$32,879
TOTAL COST SAVINGS	\$6,631

Aerospace Management

The Aerospace Management program is designed to prepare students for employment in various areas of the aerospace industry including airport management, air carrier operations, commuter airlines, corporate aviation, aviation-related government agencies, and fixed-based operations. Students will engage in a course of study that has a heavy emphasis in management, marketing, accounting, and economics.

Program to Earn an Associate Degree:

- **2 years in high school + 1 semester at CCBC**

ECIHS Tuition While in High School	\$9,631
Tuition After High School	\$2,562
TOTAL ECIHS TUITION	\$12,193

Tuition without ECIHS	\$26,047
TOTAL COST SAVINGS	\$13,854

Professional Pilot

Graduates of the Professional Pilot degree program will have completed academic and flight training required for the airplane commercial pilot certificate with flight instructor credentials. Graduates may find employment with regional and major airlines, charter or cargo operators, agricultural flying, flight schools, or with a government agency or military service.

Program to Earn an Associate Degree:

- **2 years in high school + 1 years at CCBC**

ECIHS Tuition While in High School	\$ 8,007
Tuition After High School	\$11,996
TOTAL ECIHS TUITION	\$20,005

Tuition without ECIHS	\$27,795
TOTAL COST SAVINGS	\$7,790



Through the Early College In High School Academy - **Auto/Diesel Academy**, West Allegheny High School students have the opportunity to explore **three Rosedale dual enrollment programs**: Automotive Technology, Collision Repair Technology and Diesel Technology career paths **prior to high school graduation**. Students will gain hands-on experience while taking courses taught by Rosedale Technical College instructors on the RTC campus.

Collectively Offering:

- 3 Dual Enrollment Programs

Significant Cost Savings:

- \$125 per credit vs. \$445 to \$476 per credit

3 Associate Degrees:

- Automotive Technology
44.5 of 77.5 Credits Earned while at WA
 - Senior year full time at RTC with graduation from RTC in September
- Collision Repair Technology
43 of 73.5 Credits Earned while at WA
 - Senior year full time at RTC with graduation from RTC in September
- Diesel Technology
44.5 of 75 Credits Earned while at WA
 - Senior year full time at RTC with graduation from RTC in November

Automotive Technology

NEW

With live, in-person training led by RTC instructors with years of industry experience and the drive to help students succeed, the Automotive Technology Program is unlike any other. If you love cars or you want to learn a skill that can make you feel like a boss, our Automotive Technology program may be the choice for you.

Program to Earn an Associate Degree:

ECIHSA Tuition While in High School	\$6,100
Tuition After High School	\$8,958
TOTAL ECIHSA TUITION	\$15,058
Tuition without ECIHSA	\$37,245
TOTAL COST SAVINGS	\$19,442

Collision Repair Technology

NEW

Students who are drawn to the collision repair technology program have the desire and enthusiasm to work with their hands and want a fulfilling career that gives them purpose. Students may be motivated by job security, growth opportunities, or opening their own business where they can be their own boss and put all of their skills to use.

Program to Earn an Associate Degree:

ECIHSA Tuition While in High School	\$5,868
Tuition After High School	\$8,736
TOTAL ECIHSA TUITION	\$14,604
Tuition without ECIHSA	\$37,631
TOTAL COST SAVINGS	\$20,396

Diesel Technology

NEW

RTC's Diesel Technology Program offers a unique hands-on training opportunity that fully prepares students for a career in diesel mechanics. Students gain the skills and knowledge needed to enter the industry, and RTC's cutting-edge facilities provide a chance to work with the latest diesel technology.

Program to Earn an Associate Degree:

ECIHSA Tuition While in High School	\$6,268
Tuition After High School	\$10,873
TOTAL ECIHSA TUITION	\$17,141
Tuition without ECIHSA	\$35,330
TOTAL COST SAVINGS	\$17,059



Multimedia Game Simulation Program

For students that started the program during the 2021-2022 school year or later

Multimedia Programming, Simulation, & Gaming Associate Degree: 13 WA Courses – 59-63 CCAC credits & 3 RMU credits

Multimedia Game Simulation Certificate: 6 WA Courses – 18 CCAC Credits & 3 RMU credits

	West Allegheny Course	Starting 9th grade	Starting 10th grade	Starting 11th grade	Starting 12th grade	CCAC courses	CCAC credits	Prerequisite	WA course type
Certificate Courses	0620 Introduction to Game Design	9th grade	10th grade	11th grade	12th grade	CCAC - MMC 160: Game Design & Simulation 1	3	Qualifying score on CCAC related placement test	Elective
	0612 Multimedia Graphics	10th grade	10th grade	11th grade	12th grade	CCAC - MMC 113: Multimedia Graphics	3	None	Elective
	0617 AP Computer Science Principles <small>(Only required for students completing the certificate and choosing not to take AP Comp Sci A)</small>	10th grade	10th grade	11th grade	12th grade	No CCAC courses embedded in this course	0	Algebra 1	Math
	0625 2D/3D Game Development (new 2023-24)	11th grade	11th grade	11th grade	11th grade	CCAC - MMC 165: 2D Game Design & Creation	3	AP Comp Science A or AP Computer Science Principles (WA only)	Math
						CCAC - MMC 250: 3D Game Development	3		
	0623 3D Modeling & Animation	11th grade	11th grade	11th/12th grade	12th grade	CCAC - MMC 260: Maya for Gaming 1	3	None	Elective
						CCAC - MMC 270: Maya for Gaming 2	3		
0240 AP Psychology	11th grade	11th grade	11th grade	11th grade	RMU - PSYC 1010: General Psychology	3	Teacher recommendation	Social Studies	
Additional Courses Required for Associate Degree	0618 AP Computer Science A	11th grade	11th grade	11th grade	12th grade	CCAC - CIT 111: Intro to Programming: Java	4	Qualifying score on CCAC related placement test(s); Algebra 2 (or concurrent enrollment)	Math
						CCAC - CIT 130: Object Oriented Programming with Java	4		
	0620 Programming in C# & C++ (starting 2023-24)	12th grade	12th grade	12th grade		CCAC - CIT 165: Programming in C#	3	AP Computer Science A (CIT 111 & CIT 130)	Math
						CCAC - CIT 245 Programming in C++	4		
	0626 Virtual Reality	12th grade	12th grade	12th grade	12th grade	CCAC - MMC 170: Virtual Design and Simulated Realities (registered for fall)	3	Intro to Game Design (CCAC-MMC 160); 2D/3D Game Development	Science
						CCAC - ART 144: Digital Photography (Asynch through CCAC in spring)	3		
	0624 Game Production & Marketing (new 2024-25)	12th grade	12th grade	12th grade	12th grade	CCAC - MMC 280: Multimedia Capstone (registered for spring semester due to prereq)	3	All other courses in the program must be successfully completed before taking this course	Social Studies
	0317 Honors Early College Algebra 2	when appr in math seq	when appr in math seq	when appr in math seq	when appr in math seq	CCAC - MAT 108: Intermediate Algebra	4	Qualifying score on CCAC related placement test(s); Algebra 1	Math
	0122 AP English Language & Composition	11th grade	11th grade	11th grade	11th grade	CCAC - ENG 101: English Composition 1	3	Qualifying score on CCAC related placement test(s); B or higher in English 10 or completion of English 11	English
						CCAC - ENG 102: English Composition 2	3		
	RESTRICTED ELA ELECTIVE <small>--Taken directly through CCAC or Child Development 2 (prereq of Child Dev 1) - for RMU ENGL 1070 credit</small>	12th grade	12th grade	12th grade	12th grade	Taken directly through CCAC or transferred in from RMU (students will schedule outside of school registration)	3	TBD	Elective
	One of the following:								
0410 AP Biology	11th/12th grade	11th/12th grade	11th/12th grade	11th/12th grade	CCAC - BIO 151: General Biology 1	4	Qualifying score on CCAC related placement tests (CCAC-MAT 108 & CCAC-ENG 101) and successful completion of 2 HS science courses; B or higher in Honors Biology	Science	
					CCAC - BIO 152: General Biology 2	4			
0411 AP Chemistry	12th grade	12th grade	12th grade	12th grade	CCAC - CHM 151: General Chemistry 1	4	Qualifying score on CCAC related placement test (CCAC-MAT 111) or HEC Algebra 2 (CCAC-MAT 108); B or higher in Honors Chemistry		
					CCAC - CHM 152: General Chemistry 2	4			
0412 AP Physics 1	11th grade	11th grade	11th grade	11th grade	CCAC - PHY 141: Physics 1	4	HEC Algebra 2 (CCAC-MAT 108) or Qualifying score on CCAC related placement test (CCAC-MAT 111)		

**Students that begin in 11th grade or 12th grade grade may not be able to finish associate degree without taking courses beyond those taking during the traditional school day or at WAHS.



Mechatronics Technology Program

Mechatronics Technology Certificate: 5 WA Courses; 30 CCAC credits

West Allegheny Course	Starting 9th grade	Starting 10th grade	Starting 11th grade	Starting 12th grade	CCAC courses	CCAC credits	Prerequisite	WA course type
0701 Home Systems	9th grade	10th grade	11th grade	12th grade	CCAC - EET 103: Intro to Electronics	3	None	Elective
					CCAC - EGR 181: Intro to Mechanical Systems	3		
0700 Manufacturing 1 (course changes starting 23-24)	9th/10th/ 11th/12th grade	10th/11th/ 12th grade	11th/12th grade	12th grade	CCAC - MEC 107: Manufacturing Tech: Math, Technology & Reasoning	3	None	Elective
					CCAC - MEC 109: Manufacturing Tech: Processes, Controls & Quality	3		
0702 Fluid Systems	10th grade	11th grade	11th grade	12th grade	CCAC - MEC 156: Motors & Motor Control	3	None	Elective
					CCAC - EGR 170: Fluid Power Systems	3		
0716 Digital Electronics	11th grade	11th grade	12th grade		CCAC - MEC 106: Industrial Power Systems	3	Home Systems (CCAC-EET 103)	Elective
					CCAC - EET 208: Digital Electronics	3		
0703 Power Systems	12th grade	12th grade	12th grade		CCAC - MEC 108: Program Logic Controllers	3	Home Systems (CCAC-EET 103)	Elective
					CCAC - MEC 112: Intro to Robotics	3		



General Education Certificate Program

General Education Certificate: 33-36 College Credits; 7-9 WA Courses

****Students may also choose to transfer in courses taken through a different higher education partner to fulfill requirements**

Requirement	West Allegheny Course	Starting 9th grade	Starting 10th grade	Starting 11th grade	Starting 12th grade	College Courses	Credits	Prerequisite	WA course type
Math Elective (3-4 credits) **or RMU MATH 2070, MATH 2170, STAT 2110	0317 Honors Early College Algebra 2	when appr in math seq	when appr in math seq	when appr in math seq	when appr in math seq	CCAC - MAT 108: Intermediate Algebra	4	Qualifying score on CCAC related placement test(s); Algebra 2	Math
English Requirement (6 credits)	0122 AP English Language & Composition	11th grade	11th grade	11th grade	12th grade	CCAC - ENG 101: English Composition 1	3	Qualifying score on CCAC related placement test(s); B or higher in English 10 or completion of English 11	English
						CCAC - ENG 102: English Composition 2	3		
Choose 1 Social Science (3 credits)	0232 AP US Government & Politics	10th grade	10th grade	10th grade	10th grade	CCAC - POL 103: American Government	3	None	Social Studies
	0243 Criminal Justice & Investigation (3 credits will count toward general elective)	10th/11th /12th grade	10th/11th /12th grade	11th/12th grade	12th grade	CCAC - CJC 101: Intro to Criminal Justice	3	None	Social Studies
						CCAC - CJC 201: Fundamentals of Criminal Investigations	3		
Speech Elective (3 credits)	0151 Oral Communications	12th grade	12th grade	12th grade	12th grade	CCAC - SPH 101: Oral Communications	3	Completion of or concurrent enrollment in AP English Language (CCAC - ENG 101)	English
Cultural Competency Elective & Humanities Elective (3 credits each)	0503 Honors Early College Spanish IV	11th/12th grade	11th/12th grade	11th/12th grade	12th grade	CCAC - SPA 101: Elementary Spanish 1	3	Qualifying score on CCAC related placement test(s); Spanish III	Social Studies
						CCAC - SPA 102: Elementary Spanish 2	3		
	0523 Honors Early College German IV	11th/12th grade	11th/12th grade	11th/12th grade	12th grade	CCAC - GER 101: Elementary German 1	3	Qualifying score on CCAC related placement test(s); German III	Social Studies
						CCAC - GER 102: Elementary German 2	3		
Choose 1 Science Elective (3-4 credits)	0410 AP Biology (4 credits will count towards general elective)	11th grade	11th grade	11th/12th grade	12th grade	CCAC - BIO 151: General Biology 1	4	Qualifying score on CCAC related placement tests (CCAC-MAT 108 & CCAC- ENG 101) and successful completion of 2 HS science courses; B or higher in Honors Biology	Science
						CCAC - BIO 152: General Biology 2	4		
	0411 AP Chemistry (4 credits will count towards general elective)	12th grade	12th grade	12th grade	12th grade	CCAC - CHM 151: General Chemistry 1	4	Qualifying score on CCAC related placement test (CCAC-MAT 111) or HEC Algebra 2 (CCAC-MAT 108); B or higher in Honors Chemistry	Science
						CCAC - CHM 152: General Chemistry 2	4		
	0412 AP Physics 1	11th grade	11th grade	11th grade	11th grade	CCAC - PHY 141: Physics 1	4	HEC Algebra 2 (CCAC-MAT 108) or Qualifying score on CCAC related placement test (CCAC-MAT 111)	Science
CIT Elective (3-4 credits)	0618 Computer Science A (4 credits will count towards general elective)	10th grade	10th grade	11th grade	12th grade	CCAC - CIT 111: Intro to Programming: Java	4	Qualifying score on CCAC related placement test(s); Algebra 2 (or concurrent enrollment)	Math
						CCAC - CIT 130: Object Oriented Programming with Java	4		
General Education Elective (6 credits)	Student may choose from any additional ECIHSA course offered. Students that selected Criminal Justice as their Social Science and AP Biology or AP Chemistry have already satisfied this requirement.	9th/10th/ 11th/12th grade	10th/11th /12th grade	11th/12th grade	12th grade	Dependent on course(s) selected			



General Studies Associate Degree Program

General Studies Associates Degree: 60-62 College Credits; 10-19 WA Courses

****Students may also choose to transfer in courses taken through a different higher education partner to fulfill requirement (dependent on CCAC's approval)**

Requirement	West Allegheny Course	Starting 9th grade	Starting 10th grade	Starting 11th grade	Starting 12th grade	College Courses	Credits	Prerequisite	WA course type
Math Elective (3-4 credits) **or RMU MATH 2070, MATH 2170, STAT 2110	0317 Honors Early College Algebra 2	when appr in math seq	when appr in math seq	when appr in math seq	when appr in math seq	CCAC - MAT 108: Intermediate Algebra	4	Qualifying score on CCAC related placement test(s); Algebra 2	Math
English Requirement (6 credits)	0122 AP English Language & Composition	11th grade	11th grade	11th grade	12th grade	CCAC - ENG 101: English Composition 1 CCAC - ENG 102: English Composition 2	3 3	Qualifying score on CCAC related placement test(s); B or higher in English 10 or completion of English 11	English
Choose 1 Social Science (3 credits)	0232 AP US Government & Politics	10th grade	10th grade	10th grade	10th grade	CCAC - POL 103: American Government	3	None	Social Studies
	0243 Criminal Justice & Investigation (3 credits will count toward general elective)	10th/11th /12th grade	10th/11th /12th grade	11th/12th grade	12th grade	CCAC - CJC 101: Intro to Criminal Justice CCAC - CJC 201: Fundamentals of Criminal Investigations	3 3	None	Social Studies
Choose 1 Humanities Course (3 credits each) **or RMU HUMA 1010	0151 Oral Communications	12th grade	12th grade	12th grade	12th grade	CCAC - SPH 101: Oral Communications	3	Completion of or concurrent enrollment in AP English Language (CCAC - ENG 101)	English
	0132 AP English Literature & Composition	12th grade	12th grade	12th grade	12th grade	CCAC - ENG 115: General Literature	3	AP English Language (CCAC - ENG 101) or a 3 or higher on the AP English Language Exam	English
	0626 Virtual Reality (ART 144 meets requirement - MMC 170 counts towards general elective credits)	12th grade	12th grade	12th grade	12th grade	CCAC - MMC 170: Virtual Design and Simulated Realities (registered for fall) CCAC - ART 144: Digital Photography (Asynch through CCAC in spring)	3 3	Intro to Game Design (CCAC-MMC 160); 2D/3D Game Development	Science
	0503 Honors Early College Spanish IV (3 credits will count toward general elective)	11th/12th grade	11th/12th grade	11th/12th grade	12th grade	CCAC - SPA 101: Elementary Spanish 1 CCAC - SPA 102: Elementary Spanish 2	3 3	Qualifying score on CCAC related placement test(s); Spanish III	Social Studies
	0523 Honors Early College German IV (3 credits will count toward general elective)	11th/12th grade	11th/12th grade	11th/12th grade	12th grade	CCAC - GER 101: Elementary German 1 CCAC - GER 102: Elementary German 2	3 3	Qualifying score on CCAC related placement test(s); German III	Social Studies
Choose 1 Science Elective (3-4 credits)	0410 AP Biology (4 credits will count towards general elective)	11th grade	11th grade	11th/12th grade	12th grade	CCAC - BIO 151: General Biology 1 CCAC - BIO 152: General Biology 2	4 4	Qualifying score on CCAC related placement tests (CCAC-MAT 108 & CCAC- ENG 101) and successful completion of 2 HS science courses; B or higher in Honors Biology	Science
	0411 AP Chemistry (4 credits will count towards general elective)	12th grade	12th grade	12th grade	12th grade	CCAC - CHM 151: General Chemistry 1 CCAC - CHM 152: General Chemistry 2	4 4	Qualifying score on CCAC related placement test (CCAC-MAT 111) or HEC Algebra 2 (CCAC-MAT 108); B or higher in Honors Chemistry	Science
	0412 AP Physics 1	11th grade	11th grade	11th grade	11th grade	CCAC - PHY 141: Physics 1	4	HEC Algebra 2 (CCAC-MAT 108) or Qualifying score on CCAC related placement test (CCAC-MAT 111)	Science
General Elective Options (42 credits)	0620 Introduction to Game Design	9th grade	10th grade	11th grade	12th grade	CCAC - MMC 160: Game Design & Simulation 1	3	Qualifying score on CCAC related placement test	Elective
	0612 Multimedia Graphics	10th grade	10th grade	11th grade	12th grade	CCAC - MMC 113: Multimedia Graphics	3	None	Elective
	0625 2D/3D Game Development (new 2023-24)	11th grade	11th grade	11th grade	11th grade	CCAC - MMC 165: 2D Game Design & Creation CCAC - MMC 250: 3D Game Development	3 3	AP Comp Science A or AP Computer Science Principles (WA only)	Math
	0623 3D Modeling & Animation	11th grade	11th grade	11th/12th grade	12th grade	CCAC - MMC 260: Maya for Gaming 1 CCAC - MMC 270: Maya for Gaming 2	3 3	None	Elective
	0618 AP Computer Science A	11th grade	11th grade	11th grade	12th grade	CCAC - CIT 111: Intro to Programming: Java CCAC - CIT 130: Object Oriented Programming with Java	4 4	Qualifying score on CCAC related placement test(s); Algebra 2 (or concurrent enrollment)	Math
	0620 Programming in C# & C++ (starting 2023-24)	12th grade	12th grade	12th grade	12th grade	CCAC - CIT 165: Programming in C# CCAC - CIT 245 Programming in C++	3 4	AP Computer Science A (CIT 111 & CIT 130)	Math
	0624 Game Production & Marketing (new 2024-25)	12th grade	12th grade	12th grade	12th grade	CCAC - MMC 280: Multimedia Capstone (registered for spring semester due to prereq)	3	All other courses in the program must be successfully completed before taking this course	Social Studies
	0619 Intro to Data Analytics with Python	10th/11th /12th grade	10th/11th /12th grade	11th/12th grade	12th grade	CCAC - DAT 102: Intro to Data Analytics CCAC - DAT 119: Python 1	3 4	None	Math
	0701 Home Systems	9th grade	10th grade	11th grade	12th grade	CCAC - EET 103: Intro to Electronics CCAC - EGR 181: Intro to Mechanical Systems	3 3	None	Elective
	0700 Manufacturing 1 (course changes starting 23-24)	9th/10th/1 1th/12th grade	10th/11th/ 12th grade	11th/12th grade	12th grade	CCAC - MEC 107: Manufacturing Tech: Math, Technology & Reasoning CCAC - MEC 109: Manufacturing Tech: Processes, Controls & Quality	3 3	None	Elective
	0702 Fluid Systems	10th grade	11th grade	11th grade	12th grade	CCAC - MEC 156: Motors & Motor Control CCAC - EGR 170: Fluid Power Systems	3 3	None	Elective
	0716 Digital Electronics	11th grade	11th grade	12th grade	12th grade	CCAC - MEC 106: Industrial Power Systems CCAC - EET 208: Digital Electronics	3 3	Home Systems (CCAC-EET 103)	Elective
	0703 Power Systems	12th grade	12th grade	12th grade	12th grade	CCAC - MEC 108: Program Logic Controllers CCAC - MEC 112: Intro to Robotics	3 3	Home Systems (CCAC-EET 103)	Elective

BUSINESS PROGRAM

Certificate in Business through 4 WA courses - 5 RMU courses - 13 RMU credits

Accelerated Bachelor of Science in Business Administration and Master of Business Administration (several concentrations available)

31 - 34 RMU Credits available to be earned through ECIHSA-RMU concurrent enrollment

19 - 26 CCAC Credits available to be earned and transferred to RMU through ECIHSA-CCAC concurrent enrollment

Students could begin at RMU after graduation from WAHS with up to 60 credits

	West Allegheny Course	Starting 10th grade	Starting 11th grade	Starting 12th grade	College course(s)	Credits	Prerequisite	WA course type
	0600 Principles of Business (new 23-24)	9th grade	9th/10th grade	9th/10th/ 11th grade	NOT ELIGIBLE FOR COLLEGE CREDIT nor required for program completion	0	None	Elective
BUSINESS CERTIFICATE COURSES * choose one of these electives	0601 Marketing (new 23-24)	10th/11th/ 12th grade	11th/12th grade	12th grade	RMU - MARK 2000: Marketing in the Interconnected World	3	None	Elective
	0602 Management (new 23-24)	10th/11th/ 12th grade	11th/12th grade	12th grade	RMU - MGMT 2000: Management Theory & Practice RMU - MGMT 2025: Cloud Computing for Business	3 1	None	Elective
	0603 Financial Accounting	10th/11th grade	11th grade	12th grade	RMU - ACCT 2030: Intro to Financial Accounting	3	Highly recommend - Principles of Business	Math
	0604 Business, Law, & Society*	10th/11th/ 12th grade	11th/12th grade	12th grade	RMU - BLAW 2000: Law, Business & Society	3	None	Elective
	0605 Managerial Accounting* (new 23-24)	11th/12th grade	12th grade		RMU - ACCT 2060: Managerial Accounting	3	Financial Accounting (RMU - ACCT 2030)	Math
General Education Courses	0324 AP Statistics	10th/11th/ 12th grade	11th/12th grade	12th grade	RMU - STAT 2110: Statistics	3	B or higher in Algebra 2	Math
	0232 AP US Government & Politics	10th grade	10th grade	10th grade	CCAC - POL 103: American Government	3	None	Social Studies
	0242 AP Economics	11th/12th grade	11th/12th grade	12th grade	RMU - ECON 1010: Survey of Economics	3	Teacher recommendation	Social Studies
	0240 AP Psychology	11th/12th grade	11th/12th grade	12th grade	RMU - PSYC 1010: General Psychology	3	Teacher recommendation	Social Studies
	0323 AP Calculus AB	11th/12th grade	11th/12th grade	12th grade	RMU - MATH 2070: Calculus with Analytical Geometry I	3	B or higher in Trig/Precalc	Math
	0122 AP English Language & Composition	11th/12th grade	11th/12th grade	11th/12th grade	CCAC - ENG 101: English Composition 1 CCAC - ENG 102: English Composition 2	3 3	Qualifying score on CCAC related placement test(s); B or higher in English 10 or completion of English 11	English
	0134 Film Studies	12th grade	12th grade	12th grade	RMU - HUMA 1010: Art & Music	3	None	English
	0151 Oral Communications	12th grade	12th grade	12th grade	CCAC - SPH 101: Oral Communications	3	Completion of or concurrent enrollment in AP English Language (CCAC - ENG 101) OR Qualifying score on CCAC related placement test(s)	English
	One of the following:							
	0133 Classic & Modern Literature	12th grade	12th grade	12th grade	RMU - ELIT 1050: Classic & Modern Literature	3	None	English
	0132 AP English Literature & Composition	12th grade	12th grade	12th grade	CCAC - ENG 115: General Literature	3	AP English Language (CCAC - ENG 101) or a 3 or higher on the AP English Language Exam	English
	One of the following:							
	0410 AP Biology	11th/12th grade	11th/12th grade	11th/12th grade	CCAC - BIO 151: General Biology 1 CCAC - BIO 152: General Biology 2	4 4	Qualifying score on CCAC related placement tests (CCAC-MAT 108 & CCAC-ENG 101) and successful completion of 2 HS science courses; B or higher in Honors Biology	Science
	0411 AP Chemistry	12th grade	12th grade	12th grade	CCAC - CHM 151: General Chemistry 1 CCAC - CHM 152: General Chemistry 2	4 4	Qualifying score on CCAC related placement test (CCAC-MAT 111) or HEC Algebra 2 (CCAC-MAT 108); B or higher in Honors Chemistry	
	0412 AP Physics 1	11th grade	11th grade	11th grade	CCAC - PHY 141: Physics 1	4	HEC Algebra 2 (CCAC-MAT 108) or Qualifying score on CCAC related placement test (CCAC- MAT 111)	
	Any CIT course available through ECIHSA-CCAC							

Students who continue the program at RMU will also take additional courses which are dependent on their chosen area of concentration.

EARLY CHILDHOOD EDUCATION PROGRAM

Accelerated Bachelor of Science in Early Childhood Education

33-36 RMU Credits available to be earned through ECIHSA-RMU concurrent enrollment

16-24 CCAC Credits available to be earned and transferred to RMU through ECIHSA-CCAC concurrent enrollment

Students could begin at RMU after graduation from WAHS with up to 60 credits

	West Allegheny Course	Starting 10th grade	Starting 11th grade	Starting 12th grade	College course(s)	Credits	Prerequisite	WA course type	
EDUCATION COURSES	0727 Family & Community Relations +	10th grade	11th grade	12th grade	RMU - ECED 3060: Family/Community Relationships	3	None	Elective	
	0835 Partners in Physical Education	10th	11th grade	12th grade	RMU - EDUC 2100: Ed Psych /Classroom Management	3	WAHS application process	Physical Educ	
	0732 Child Development I +	10th/11th grade	11th grade	12th grade	RMU - ECED 3100: Integrating Arts/Developing Child	3	None	Elective	
					RMU - PSYC 3535: Child Development	3			
	0736 Technology for Aspiring Teachers	11th grade	11th grade	12th grade	RMU - EDUC 2200: Technology for Teachers	3	WAHS application process	Elective	
	0733 Child Development II +	11th/12th grade	12th grade		RMU - ECED 2100: Introduction to Early Childhood Education	3	C or higher in Child Development I	Elective	
					RMU - ENGL 1070: Children's Literature	3			
0735 Partners in Exploring Foods	12th grade	12th grade	12th grade	RMU - SPED 3010: Introduction to Special Education K-12	3	WAHS application process	Elective		
	0232 AP US Government & Politics	10th grade	10th grade	10th grade	CCAC - POL 103: American Government	3	None	Social Studies	
	0242 AP Economics	11th/12th grade	11th/12th grade	12th grade	RMU - ECON 1010: Survey of Economics	3	Teacher recommendation	Social Studies	
	0240 AP Psychology	11th/12th grade	11th/12th grade	12th grade	RMU - PSYC 1010: General Psychology	3	Teacher recommendation	Social Studies	
	0122 AP English Language & Composition	11th/12th grade	11th/12th grade	12th grade	CCAC - ENG 101: English Composition 1	3	Qualifying score on CCAC related placement test(s); B or higher in English 10 or completion of English 11	English	
					CCAC - ENG 102: English Composition 2	3			
	0134 Film Studies	12th grade	12th grade	12th grade	RMU - HUMA 1010: Art & Music	3	None	English	
	0151 Oral Communications	12th grade	12th grade	12th grade	CCAC - SPH 101: Oral Communications	3	Completion of or concurrent enrollment in AP English Language (CCAC - ENG 101) OR Qualifying score on CCAC related placement test(s)	English	
	One of the following:								
	0317 Honors Early College Algebra 2	When appr in math seq	When appr in math seq	When appr in math seq	CCAC - MAT 108: Intermediate Algebra	4	Qualifying score on CCAC related placement test(s); Algebra I	Math	
	0323 AP Calculus AB	11th/12th grade	11th/12th grade	12th grade	RMU - MATH 2070: Calculus with Analytical Geometry I	3	B or higher in Trig/Precalc	Math	
	0324 AP Statistics	10th/11th /12th grade	11th/12th grade	12th grade	RMU - STAT 2110: Statistics	3	B or higher in Algebra 2	Math	
	One of the following:								
	0410 AP Biology	11th/12th grade	11th/12th grade	12th grade	CCAC - BIO 151: General Biology 1	4	Qualifying score on CCAC related placement tests (CCAC-MAT 108 & CCAC-ENG 101) and successful completion of 2 HS science courses; B or higher in Honors Biology	Science	
					CCAC - BIO 152: General Biology 2	4			
	0411 AP Chemistry	12th grade	12th grade	12th grade	CCAC - CHM 151: General Chemistry 1	4	Qualifying score on CCAC related placement test (CCAC-MAT 111) or HEC Algebra 2 (CCAC-MAT 108); B or higher in Honors Chemistry		
CCAC - CHM 152: General Chemistry 2					4				
0412 AP Physics 1	11th grade	11th grade	11th grade	CCAC - PHY 141: Physics 1	4	HEC Algebra 2 (CCAC-MAT 108) or Qualifying score on CCAC related placement test (CCAC-MAT 111)			

Students who continue the program at RMU will also take additional courses.

+ Denotes awaiting final curriculum changes/approval from RMU

SPECIAL EDUCATION PROGRAM

Accelerated Bachelor of Science in Special Education
 30-33 RMU Credits available to be earned through ECIHSA-RMU concurrent enrollment
 16-24 CCAC Credits available to be earned and transferred to RMU through ECIHSA-CCAC concurrent enrollment
 Students could begin at RMU after graduation from WAHS with up to 54 credits

	West Allegheny Course	Starting 10th grade	Starting 11th grade	Starting 12th grade	College course(s)	Credits	Prerequisite	WA course type
SPECIAL EDUCATION COURSES	0835 Partners in Physical Education	10th grade	11th grade	12th grade	RMU - EDUC 2100: Ed Psych /Classroom Management	3	WAHS application process	Physical Educ
	0736 Technology for Aspiring Teachers	11th grade	11th grade	12th grade	RMU - EDUC 2200: Technology for Teachers	3	WAHS application process	Elective
	0732 Child Development I +	10th/11th grade	11th grade	12th grade	RMU - ECED 3100: Integrating Arts/Developing Child	3	None	Elective
					RMU - PSYC 3535: Child Development	3		
	0735 Partners in Exploring Foods	11th/12th grade	11th/12th grade	12th grade	RMU - SPED 3010: Introduction to Special Education K-12	3	WAHS application process	Elective
	0733 Child Development II +	11th/12th grade	12th grade		RMU - ECED 2100: Introduction to Early Childhood Education	3	C or higher in Child Development I	Elective
					RMU - ENGL 1070: Children's Literature	3		
0737 West A Café	12th grade	12th grade	12th grade	Not eligible for college credit	0	WAHS application process	Elective	
GENERAL EDUCATION COURSES	0232 AP US Government & Politics	10th grade	10th grade	10th grade	CCAC - POL 103: American Government	3	None	Social Studies
	0242 AP Economics	11th/12th grade	11th/12th grade	12th grade	RMU - ECON 1010: Survey of Economics	3	Teacher recommendation	Social Studies
	0240 AP Psychology	11th/12th grade	11th/12th grade	12th grade	RMU - PSYC 1010: General Psychology	3	Teacher recommendation	Social Studies
	0122 AP English Language & Composition	11th/12th grade	11th/12th grade	12th grade	CCAC - ENG 101: English Composition 1	3	Qualifying score on CCAC related placement test(s); B or higher in English 10 or completion of English 11	ELA
					CCAC - ENG 102: English Composition 2	3		
	0151 Oral Communications	12th grade	12th grade	12th grade	CCAC - SPH 101: Oral Communications	3	Completion of or concurrent enrollment in AP English Language (CCAC - ENG 101) OR Qualifying score on CCAC related placement test(s)	ELA
	0134 Film Studies	12th grade	12th grade	12th grade	RMU - HUMA 1010: Art & Music	3	None	English
	One of the following:							
	0317 Honors Early College Algebra 2	When appr in math seq	When appr in math seq	When appr in math seq	CCAC - MAT 108: Intermediate Algebra	4	Qualifying score on CCAC related placement test(s); Algebra I	Math
	0323 AP Calculus AB	11th/12th grade	11th/12th grade	12th grade	RMU - MATH 2070: Calculus with Analytical Geometry I	3	B or higher in Trig/Precalc	Math
	0324 AP Statistics	10th/11th /12th grade	11th/12th grade	12th grade	RMU - STAT 2110: Statistics	3	B or higher in Algebra 2	Math
	One of the following:							
	0410 AP Biology	11th/12th grade	11th/12th grade	12th grade	CCAC - BIO 151: General Biology 1	4	Qualifying score on CCAC related placement tests (CCAC-MAT 108 & CCAC-ENG 101) and successful completion of 2 HS science courses; B or higher in Honors Biology	Science
					CCAC - BIO 152: General Biology 2	4		
	0411 AP Chemistry	12th grade	12th grade	12th grade	CCAC - CHM 151: General Chemistry 1	4	Qualifying score on CCAC related placement test (CCAC-MAT 111) or HEC Algebra 2 (CCAC-MAT 108); B or higher in Honors Chemistry for CCAC credit	
					CCAC - CHM 152: General Chemistry 2	4		
	0412 AP Physics 1	11th grade	11th grade	11th grade	CCAC - PHY 141: Physics 1	4	HEC Algebra 2 (CCAC-MAT 108) or Qualifying score on CCAC related placement test (CCAC-MAT 111)	

Students who continue the program at RMU will also take additional courses.

+ Denotes awaiting final curriculum changes/approval from RMU

ENGINEERING PROGRAM

Accelerated Bachelor of Science in Engineering and Master of Science in Engineering Management (several concentrations available)

34 - 37 RMU Credits available to be earned through ECIHSA-RMU concurrent enrollment

31 - 34 CCAC Credits available to be earned and transferred to RMU through ECIHSA-CCAC concurrent enrollment

Students could begin at RMU after graduation from WAHS with up to 68 credits

	West Allegheny Course	Starting 10th grade	Starting 11th grade	Starting 12th grade	College course(s)	Credits	Prerequisite	WA course type
ENGINEERING COURSES	0714 Introduction to Engineering Design	10th grade	11th grade	12th grade	RMU - ENGR 1010: Intro to Engineering	3	None	Elective
	0709 CADD II	10th grade	11th grade	12th grade	RMU - ENGR 2160: Engineering Graphics	3	C or higher in CADD I or Intro to Engineering Design	Elective
	0715 Engineering Materials	11th grade	12th grade	12th grade	RMU - ENGR 2180: Engineering Materials	3	Intro to Engineering Design (or concurrent enrollment) and Manufacturing Technology II (or concurrent enrollment)	Elective
	0620 Programming in C# & C++ (new 23-24)	12th grade	12th grade	12th grade	CCAC - CIT 165: Programming in C# CCAC - CIT 245 Programming in C++	3 4	AP Computer Science Principles (CCAC-CIT 111) & AP Computer Science A (CCAC-CIT 130)	Math
GENERAL EDUCATION COURSES	0232 AP US Government & Politics	10th grade	10th grade	10th grade	CCAC - POL 103: American Government	3	None	Social Studies
	0601 Marketing (new 23-24)	10th/11th/ 12th grade	11th/12th grade	12th grade	RMU - MARK 2000: Marketing in the Interconnected World	3	None	Elective
	0602 Management (new 23-24)	10th/11th/ 12th grade	11th/12th grade	12th grade	RMU - MGMT 2000: Management Theory & Practice RMU - MGMT 2025: Cloud Computing for Business	3 1	None	Elective
	0603 Financial Accounting	10th/11th grade	11th grade	12th grade	RMU - ACCT 2030: Intro to Financial Accounting	3	Highly recommend - Principles of Business	Math
	0242 AP Economics	11th/12th grade	11th/12th grade	12th grade	RMU - ECON 1010: Survey of Economics	3	Teacher recommendation	Social Studies
	0240 AP Psychology	11th/12th grade	11th/12th grade	12th grade	RMU - PSYC 1010: General Psychology	3	Teacher recommendation	Social Studies
	0323 AP Calculus AB	11th/12th grade	11th/12th grade	12th grade	RMU - MATH 2070: Calculus with Analytical Geometry I	3	B or higher in Trig/Precalc	Math
	0122 AP English Language & Composition	11th/12th grade	11th/12th grade	11th/12th grade	CCAC - ENG 101: English Composition 1 CCAC - ENG 102: English Composition 2	3 3	Qualifying score on CCAC related placement test(s); B or higher in English 10 or completion of English 11	English
	0134 Film Studies	12th grade	12th grade	12th grade	RMU - HUMA 1010: Art & Music	3	None	English
	0151 Oral Communications	12th grade	12th grade	12th grade	CCAC - SPH 101: Oral Communications	3	Completion of or concurrent enrollment in AP English Language (CCAC - ENG 101) OR Qualifying score on CCAC related placement test(s)	English
	0412 AP Physics 1	11th grade	11th grade	11th grade	CCAC - PHY 141: Physics 1	4	HEC Algebra 2 (CCAC-MAT 108) or Qualifying score on CCAC related placement test (CCAC-MAT 111)	Science
	0411 AP Chemistry	12th grade	12th grade	12th grade	CCAC - CHM 151: General Chemistry 1 CCAC - CHM 152: General Chemistry 2	4 4	Qualifying score on CCAC related placement test (CCAC-MAT 111) or HEC Algebra 2 (CCAC-MAT 108); B or higher in Honors Chemistry	Science
	0325 AP Calculus BC	12th grade	12th grade	12th grade	RMU - MATH 2170: Calculus with Analytical Geometry II	3	AP Calculus AB (RMU-MATH 2070)	Math
	<i>One of the following:</i>							
	0133 Classic & Modern Literature	12th grade	12th grade	12th grade	RMU - ELIT 1050: Classic & Modern Literature	3	None	English
	0132 AP English Literature & Composition	12th grade	12th grade	12th grade	CCAC - ENG 115: General Literature	3	AP English Language (CCAC - ENG 101) or a 3 or higher on the AP English Language Exam	English

Students who continue the program at RMU will also take additional courses which are dependent on their chosen area of concentration.

CYBERSECURITY PROGRAM

Certificate Program (Cybersecurity Fundamentals denoted by *) and Accelerated Bachelor of Science in Cybersecurity
27-30 RMU Credits available to be earned through ECIHSA-RMU concurrent enrollment
23-30 CCAC Credits available to be earned and transferred to RMU through ECIHSA-CCAC concurrent enrollment
Students could begin at RMU after graduation from WAHS with up to 57 credits

	West Allegheny Course	Starting 10th grade	Starting 11th grade	Starting 12th grade	College course(s)	Credits	Prerequisite	WA course type	
	0629 Technology Skills	9th grade	9th/10th grade	9th/10th/ 11th grade	NOT ELIGIBLE FOR COLLEGE CREDIT nor required for program completion	0	None	Elective	
CYBERSECURITY COURSES	0627 Intro to Cybersecurity*	10th grade	11th grade	12th grade	RMU - CYBS 2000: Intro to Cybersecurity	3	None	Elective	
					RMU - CYBS 2010: Computing Principles & Practice	3			
	0628 Computer Networking*	10th/11th grade	11th grade	12th grade	RMU - INFS 3230: Computer Networking	3	None	Elective	
	0629 Cybersecurity Risk Management* (new 23-24)	11th/12th grade	12th grade		RMU - INFS 3235: Network Security	3	0627 Intro to Cybersecurity	Elective	
RMU - CYBS 4300: Cybersecurity Risk Management					3				
GENERAL EDUCATION COURSES	0232 AP US Government & Politics	10th grade	10th grade	10th grade	CCAC - POL 103: American Government	3	None	Social Studies	
	0619 Intro to Data Analytics with Python	10th/11th/ 12th grade	11th/12th grade	12th grade	CCAC - DAT 102: Intro to Data Analytics	3	None	Math	
					CCAC - DAT 119: Python 1	4			
	0242 AP Economics	11th/12th grade	11th/12th grade	12th grade	RMU - ECON 1010: Survey of Economics	3	Teacher recommendation	Social Studies	
	0240 AP Psychology	11th/12th grade	11th/12th grade	12th grade	RMU - PSYC 1010: General Psychology	3	Teacher recommendation	Social Studies	
	0324 AP Statistics	10th/11th/ 12th grade	11th/12th grade	12th grade	RMU - STAT 2110: Statistics	3	B or higher in Algebra 2	Math	
	0122 AP English Language & Composition	11th/12th grade	11th/12th grade	11th/12th grade	CCAC - ENG 101: English Composition 1	3	Qualifying score on CCAC related placement test(s); B or higher in English 10 or completion of English 11	English	
					CCAC - ENG 102: English Composition 2	3			
	0134 Film Studies	12th grade	12th grade	12th grade	RMU - HUMA 1010: Art & Music	3	None	English	
	0151 Oral Communications	12th grade	12th grade	12th grade	CCAC - SPH 101: Oral Communications	3	Completion of or concurrent enrollment in AP English Language (CCAC - ENG 101) OR Qualifying score on CCAC related placement test(s)	English	
	One of the following:								
	0410 AP Biology	11th/12th grade	11th/12th grade	11th/12th grade	CCAC - BIO 151: General Biology 1	4	Qualifying score on CCAC related placement tests (CCAC-MAT 108 & CCAC-ENG 101) and successful completion of 2 HS science courses; B or higher in Honors Biology	Science	
					CCAC - BIO 152: General Biology 2	4			
	0411 AP Chemistry	12th grade	12th grade	12th grade	CCAC - CHM 151: General Chemistry 1	4	Qualifying score on CCAC related placement test (CCAC-MAT 111) or HEC Algebra 2 (CCAC- MAT 108); B or higher in Honors Chemistry		
					CCAC - CHM 152: General Chemistry 2	4			
	0412 AP Physics 1	11th grade	11th grade	11th grade	CCAC - PHY 141: Physics 1	4	HEC Algebra 2 (CCAC-MAT 108) or Qualifying score on CCAC related placement test (CCAC- MAT 111)		
	One of the following:								
	0133 Classic & Modern Literature	12th grade	12th grade	12th grade	RMU - ELIT 1050: Classic & Modern Literature	3	None	English	
	0132 AP English Literature & Composition	12th grade	12th grade	12th grade	CCAC - ENG 115: General Literature	3	AP English Language (CCAC - ENG 101) or a 3 or higher on the AP English Language Exam	English	

Students who continue the program at RMU will also take additional courses.



HEALTH SCIENCES PROGRAM: NURSING ASSOCIATE DEGREE - 3 + 1

Students will begin the program Junior year and finish in July after graduation.

PTC Orientation with families will occur before students begin the program.

Tuition for WA students while in high school for PTC courses will be \$100/credit.

Recom. Timeframe	Sophomore Year (Classes @ PTC 11:30 - 2:30)		WA Credits	PTC Credits
Full year @ WA	GEM 165 - College Algebra	0317 HEC Algebra 2 (WA CCAC ECISHA - MAT 108)	1	4
Oct - Jan	MED 106 - Medical Terminology (not required for degree completion but highly recommended)	WA Elective credit	1	5
Jan - Apr	BIO 150 - Anatomy & Physiology 1 BIO 151 - Anatomy & Physiology 1 Lab	WA Science Credit	2	6
TOTAL in Sophomore Year			4	15
Recom. Timeframe	Junior Year (Classes @ PTC 11:30 - 2:30)		WA Credits	PTC Credits
Full year @ WA	GEE 100 - English Composition 1 GEE 150 - English Composition 2	0122 AP Eng Lang & Comp (WA CCAC ECISHA-ENG 101 & 102)	1	8
Full year @ WA	GEE 212 - Effective Speech	0151 Oral Communications (WA CCAC ECISHA -SPH 101)	1	4
Full year @ WA	GES 100 - Psychology	0240 AP Psychology (WA RMU ECISHA -PSYC 1010)	1	4
Aug - Sep	Field experience/trip at medical institution (meets WA IBL grad requirement)		0.25	0
Oct - Jan	BIO 165 - Anatomy & Physiology 2 BIO 166 - Anatomy & Physiology 2 Lab	WA Science Credit	2	6
Jan - Apr	BIO 180 - Microbiology BIO 181 - Microbiology Lab	WA Science Credit	2	6
Apr - May	TEAS Prep Course (must have TEAS passed by August 1)		0.25	0
TOTAL in Junior Year			7.5	28
Recom.	Senior Year (All classes @ PTC)		WA	PTC
Aug - Sep	Field experience/trip at medical institution (meets WA IBL grad requirement)		0.25	0
Oct - Jan	NUR 002 - Steps to Nursing Success		1	1
Oct - Jan	NUR 125 - Introduction to Nursing & the Language of Medicine		2	5
TOTAL in Oct - Jan Quarter			3.25	6
Students must be 18 years or older to continue the program.				
Jan - Apr	NUR 181 - Foundations of Nursing	WA Social Studies Credit	1	3
Jan - Apr	NUR 184 - Clinical Practice 1		1	2
TOTAL in Oct - Jan Quarter			2	5
Apr - July	NUR 186 - Primary Care and Wellness		1	4
Apr - July	NUR 188 - Clinical Practice 2		1	3
Apr - July	NUR 193 Pharmacology in Disease Management		1	5
TOTAL in Apr - July Quarter			3	12
TOTAL in Senior Year			8.25	23
Recom. Timeframe	First year after graduation		Credits	
July - Oct	NUR 201 - Care of Adults with Chronic Illness		5	
July - Oct	NUR 218 - Clinical Practice 3		6	
July - Oct	NUR 129 -Nutrition		4	
Credits			15	
Oct - Jan	NUR 230 - Acute Care of the Adult		6	
Oct - Jan	NUR 231 - Clinical Practice 4		5	
Oct - Jan	NUR 190 - Lifespan Development		4	
Credits			15	
Jan - Apr	NUR 211 - Psychiatric/Mental Health Nursing		4	
Jan - Apr	NUR 219 - Clinical Practice 7		3	
Jan - Apr	NUR 240 - Pediatric Professional Nursing		2	
Jan - Apr	NUR 241 - Clinical Practice 5		2	
Jan - Apr	NUR 250 - Maternity Professional Nursing		2	
Jan - Apr	NUR 251 - Clincial Practice 6		2	
Credits			15	
Apr - July	NUR 260 - Professional Transition into Practice		6	
Apr - July	NUR 261 - Clinical Practice 8		8	
Credits			14	
Total for first year after graduation			59	



HEALTH SCIENCES PROGRAM: NURSING ASSOCIATE DEGREE - 2 + 1

Students will begin the program Junior year and finish in July after graduation.
PTC Orientation with families will occur before students begin the program.
Tuition for WA students while in high school for PTC courses will be \$100/credit.

Recom. Timeframe	Freshman/Sophomore Year		WA Credits	PTC Credits
Full year @ WA	GEM 165 - College Algebra	0317 HEC Algebra 2 (WA CCAC ECISHA - MAT 108)	1	4
TOTAL in Freshman/Sophomore Year			1	4
Recom. Timeframe	Junior Year (Classes @ PTC 11:30 - 2:30)		WA Credits	PTC Credits
Full year @ WA	GEE 100 - English Composition 1 GEE 150 - English Composition 2	0122 AP Eng Lang & Comp (WA CCAC ECIHSA-ENG 101 & 102)	1	8
Full year @ WA	GEE 212 - Effective Speech	0151 Oral Communications (WA CCAC ECIHSA -SPH 101)	1	4
Full year @ WA	GES 100 - Psychology	0240 AP Psychology (WA RMU ECIHSA -PSYC 1010)	1	4
Aug - Sep	Field experience/trip at medical institution (meets WA IBL grad requirement)		0.25	0
Oct - Jan	MED 106 - Medical Terminology (not required for degree completion but highly recommended)	WA Elective credit	1	5
Oct - Jan	BIO 150 - Anatomy & Physiology 1 BIO 151 - Anatomy & Physiology 1 Lab	WA Science Credit	2	6
Jan - Apr	BIO 165 - Anatomy & Physiology 2 BIO 166 - Anatomy & Physiology 2 Lab	WA Science Credit	2	6
Apr - May	TEAS Prep Course (must have TEAS passed by August 1)		0.25	0
TOTAL in Junior Year			8.5	33
Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Aug - Sep	Field experience/trip at medical institution (meets WA IBL grad requirement)		0.25	0
Oct - Jan	BIO 180 - Microbiology BIO 181 - Microbiology Lab	WA Science Credit	2	6
Oct - Jan	NUR 002 - Steps to Nursing Success	WA Elective Credit	1	1
Oct - Jan	NUR 125 - Introduction to Nursing & the Language of Medicine	WA Science Credit	2	5
Total in Oct - Jan Quarter			5	12
Students must be 18 years or older to continue the program.				
Jan - Apr	NUR 181 - Foundations of Nursing	WA Social Studies Credit	1	3
Jan - Apr	NUR 184 - Clinical Practice 1	WA Elective Credit	1	2
Total in Jan - Apr Quarter			2	5
Apr - July	NUR 186 - Primary Care and Wellness	WA Elective Credit	1	4
Apr - July	NUR 188 - Clinical Practice 2	WA Elective Credit	1	3
Apr - July	NUR 193 - Pharmacology in Disease Management	WA Elective Credit	1	5
TOTAL in Apr - July Quarter			3	12
TOTAL in Senior Year			10	29
Recom. Timeframe	First year after graduation		Credits	
July - Oct	NUR 201 - Care of Adults with Chronic Illness		5	
July - Oct	NUR 218 - Clinical Practice 3		6	
July - Oct	NUR 129 -Nutrition		4	
Credits			15	
Oct - Jan	NUR 230 - Acute Care of the Adult		6	
Oct - Jan	NUR 231 - Clinical Practice 4		5	
Oct - Jan	NUR 190 - Lifespan Development		4	
Credits			15	
Jan - Apr	NUR 211 - Psychiatric/Mental Health Nursing		4	
Jan - Apr	NUR 219 - Clinical Practice 7		3	
Jan - Apr	NUR 240 - Pediatric Professional Nursing		2	
Jan - Apr	NUR 241 - Clinical Practice 5		2	
Jan - Apr	NUR 250 - Maternity Professional Nursing		2	
Jan - Apr	NUR 251 - Clincial Practice 6		2	
Credits			15	
Apr - July	NUR 260 - Professional Transition into Practice		6	
Apr - July	NUR 261 - Clinical Practice 8		8	
Credits			14	
Total for first year after graduation			59	



HEALTH SCIENCES PROGRAM: PRACTICAL NURSING CERTIFICATE - 2 + 0.25

Students will begin the program Junior year and finish in October after graduation.

PTC Orientation with families will occur before students begin the program.

Tuition for WA students while in high school for PTC courses will be \$100/credit.

Recom. Timeframe	Junior Year (Classes @ PTC 11:30 - 2:30)		WA Credits	PTC Credits
Aug - Sep	Field experience/trip at medical institution (meets WA IBL grad requirement)		0.25	0
Oct - Jan	MED 106 - Medical Terminology (not required for degree completion but highly recommended)	WA ELA credit	1	5
Oct - Jan	BIO 150 - Anatomy & Physiology 1 BIO 151 - Anatomy & Physiology 1 Lab	WA Science Credit	1	6
Jan - Apr	BIO 165 - Anatomy & Physiology 2 BIO 166 - Anatomy & Physiology 2 Lab	WA Science Credit	1	6
Apr - May	TEAS Prep Course (must have TEAS passed by August 1)		0.25	0
Total in Junior Year			3.5	17
Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Aug - Sep	NUR 002 - Steps to Nursing Success	WA Elective Credit	1	0
Students must be 18 years or older to continue the program.				
Oct - Jan	BIO 180 - Microbiology BIO 181 - Microbiology Lab	WA Science Credit	1	6
Oct - Jan	NUR 151 - Foundations of Nursing 1	WA Social Studies Credit	1	4
Oct - Jan	NUR 152 - Nursing Practice 1	WA Elective Credit	2	6
Total in Oct - Jan Quarter			5	16
Jan - Apr	NUR 161 - Foundations of Nursing 2	WA Elective Credit	1	4
Jan - Apr	NUR 162 - Nursing Practice 2	WA Elective Credit	2	6
Jan - Apr	NUR 137 - Pharmacology in Nursing	WA Elective Credit	1	4
Jan - Apr	NUR 143 - Pharmacology Applications in Nursing	WA Elective Credit	1	2
Total in Jan - Apr Quarter			5	16
Apr - July	NUR 165 - Medical/Surgical Nursing Care of the Adult	WA Elective Credit	1	4
Apr - July	NUR 166 - Nursing Practice 3	WA Elective Credit	1	6
Apr - July	NUR 170 - Psychosocial and Psychiatric Issues	WA Elective Credit	1	3
Apr - July	NUR 176 - Nursing Practice 4	WA Elective Credit	1	4
Apr - July	NUR 175 - Gerontology and Nursing Practice	WA Elective Credit	1	3
TOTAL in Apr - July Quarter			5	20
TOTAL in Senior Year			15	52
Recom. Timeframe	First year after graduation		Credits	
July - Oct	NUR 180 Maternity Nursing		2	
July - Oct	NUR 185 - Pediatric Nursing		2	
July - Oct	NUR 181 - Nursing Practice 5		3	
July - Oct	NUR 186 - Nursing Practice 6		3	
July - Oct	NUR 191 - Nursing Practice 7		6	
July - Oct	NUR 190 - Transition into Nursing Practice		4	
Total for first year after graduation			20	



HEALTH SCIENCES PROGRAM: PRACTICAL NURSING CERTIFICATE - 1 + 0.25

Students will begin the program Senior year and finish in October after graduation.

PTC Orientation with families will occur before students begin the program.

Tuition for WA students while in high school for PTC courses will be \$100/credit.

Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Aug - Sept	NUR 001 - Steps to Nursing Success		0.25	0
Aug - Sept	MED 106 - Medical Terminology (not required for degree completion but highly recommended)	WA ELA Credit	1	5
Students must be 18 years or older to continue the program.				
Oct - Jan	BIO 150 - Anatomy & Physiology 1 BIO 151 - Anatomy & Physiology 1 Lab	WA Science Credit	2	6
Oct - Jan	BIO 180 - Microbiology BIO 181 - Microbiology Lab	WA Science Credit	1	6
Oct - Jan	NUR 151 - Foundations of Nursing 1	WA Social Studies Credit	1	4
Oct - Jan	NUR 152 - Nursing Practice 1	WA Elective Credit	2	6
Total in Oct - Jan Quarter			7.25	27
Jan - Apr	BIO 165 - Anatomy & Physiology 2 BIO 166 - Anatomy & Physiology 2 Lab	WA Science Credit	2	6
Jan - Apr	NUR 161 - Foundations of Nursing 2	WA Elective Credit	1	4
Jan - Apr	NUR 162 - Nursing Practice 2	WA Elective Credit	2	6
Jan - Apr	NUR 137 - Pharmacology in Nursing	WA Elective Credit	1	4
Jan - Apr	NUR 143 - Pharmacology Applications in Nursing	WA Elective Credit	1	2
Total in Jan - Apr Quarter			7	22
Apr - July	NUR 165 - Medical/Surgical Nursing Care of the Adult	WA Elective Credit	1	4
Apr - July	NUR 166 - Nursing Practice 3	WA Elective Credit	1	6
Apr - July	NUR 170 - Psychosocial and Psychiatric Issues	WA Elective Credit	1	3
Apr - July	NUR 176 - Nursing Practice 4	WA Elective Credit	1	4
Apr - July	NUR 175 - Gerontology and Nursing Practice	WA Elective Credit	1	3
TOTAL in Apr - July Quarter			5	20
TOTAL in Senior Year			19.25	69
Recom. Timeframe	First year after graduation		Credits	
July - Oct	NUR 180 Maternity Nursing		2	
July - Oct	NUR 185 - Pediatric Nursing		2	
July - Oct	NUR 181 - Nursing Practice 5		3	
July - Oct	NUR 186 - Nursing Practice 6		3	
July - Oct	NUR 191 - Nursing Practice 7		6	
July - Oct	NUR 190 - Transition into Nursing Practice		4	
Total for first year after graduation			20	



HEALTH SCIENCES PROGRAM: SURGICAL TECHNOLOGY ASSOCIATE DEGREE - 3 + 1

Students will begin the program Sophomore year and finish in July after graduation.

PTC Orientation with families will occur before students begin the program.

Tuition for WA students while in high school for PTC courses will be \$100/credit.

Recom. Timeframe	Sophomore Year (Classes @ PTC 11:30 - 2:30)		WA Credits	PTC Credits
Full year @ WA	GEM 166 - College Algebra	0317 HEC Algebra 2 (WA CCAC ECISHA - MAT 108)	1	4
Oct - Jan	MED 107 - Medical Terminology	WA ELA credit	1	5
Jan - Apr	BIO 150 - Anatomy & Physiology 1 BIO 151 - Anatomy & Physiology 1 Lab	WA Science Credit	1	6
Total in Sophomore Year			3	15
Students must earn a 237 on New GenerationAccuplacer Sentence Skills exam				
Recom. Timeframe	Junior Year (Classes @ PTC 11:30 - 2:30)		WA Credits	PTC Credits
Full year @ WA	GEE 101 - English Composition 1 GEE 151 - English Composition 2	0122 AP Eng Lang & Comp (WA CCAC ECIHSA-ENG 101 & 102)	1	8
Full year @ WA	GES 110 - Psychology	0240 AP Psychology (WA RMU ECIHSA -PSYC 1010)	1	4
Aug - Sep	Field experience/trip at medical instution (meets WA IBL grad requirement)		0.25	0
Oct - Jan	BIO 165 - Anatomy & Physiology 2 BIO 166 - Anatomy & Physiology 2 Lab	WA Science Credit	1	6
Jan - Apr	BIO 180 - Microbiology BIO 181 - Microbiology Lab	WA Science Credit	1	6
Total in Junior Year			4.25	24
Students must have a negative on two-step TB test (completed by Aug. 1)				
Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Aug - Sep	GSD 005 - Steps to Career Success 1	WA Elective Credit	1	1
Oct - Jan	SGT 113 - Surgical Instrumentation	WA Elective Credit	1	3
Oct - Jan	SGT 118 - Foundations of Surgery	WA Elective Credit	1	4
Total in Oct - Jan Quarter			3	8
Jan - Apr	SGT 130 - Principles of Surgery	WA Elective Credit	1	3
Jan - Apr	SGT 123 - Surgical Preparation, Equipment, & Supplies	WA Elective Credit	1	4
Total in Jan - Apr Quarter			2	7
TOTAL in Senior Year			5	15
Recom. Timeframe	First year after graduation		Credits	
July - Oct	MED 148 - Diseases and Diagnostic Methods		5	
July - Oct	MED 227 - Pharmacology for the Surgical Technology		5	
July - Oct	SGT 216 - Surgical Procedures 1		4	
College Fees				
Credits			14	
Oct - Jan	SGT 226 - Surgical Procedures 2		4	
Oct - Jan	SGT 236 - Surgical Procedures 3		4	
Oct - Jan	SGT 246 - Surgical Procedures 4		4	
College Fees				
Credits			12	
Jan - Apr	SGT 264 - Clinical Rounds Review		2	
Jan - Apr	GSD 180 - Career Development		2	
Jan - Apr	SGT 266 - Clinical Rotation		7	
College Fees				
Credits			11	
Apr - July	GSI 218 - Surgical Technical Internship		9	
Apr - July	SGT 268 - CST Review		2	
Credits			11	
Total for first year after graduation			48	



HEALTH SCIENCES PROGRAM: SURGICAL TECHNOLOGY ASSOCIATE DEGREE - 2 + 1

Students will begin the program Junior year and finish in July after graduation.
PTC Orientation with families will occur before students begin the program.
Tuition for WA students while in high school for PTC courses will be \$100/credit.

Recom. Timeframe	Freshman/Sophomore Year		WA Credits	PTC Credits
Full year @ WA	GEM 166 - College Algebra	0317 HEC Algebra 2 (WA CCAC ECISHA - MAT 108)	1	4
Total in Freshman/Sophomore Year			1	4
Students must earn a 237 on New GenerationAccuplacer Sentence Skills exam				
Recom. Timeframe	Junior Year (Classes @ PTC 11:30 - 2:30)		WA Credits	PTC Credits
Full year @ WA	GEE 101 - English Composition 1 GEE 151 - English Composition 2	0122 AP Eng Lang & Comp (WA CCAC ECIHSA-ENG 101 & 102)	1	8
Full year @ WA	GES 110 - Psychology	0240 AP Psychology (WA RMU ECIHSA -PSYC 1010)	1	4
Aug - Sep	Field experience/trip at medical instution (meets WA IBL grad requirement)		0.25	0
Oct - Jan	MED 107 - Medical Terminology	WA ELA Credit	1	5
Oct - Jan	BIO 150 - Anatomy & Physiology 1 BIO 151 - Anatomy & Physiology 1 Lab	WA Science Credit	2	6
Jan - Apr	BIO 165 - Anatomy & Physiology 2 BIO 166 - Anatomy & Physiology 2 Lab	WA Science Credit	2	6
Total in Junior Year			7.25	29
Students must have a negative on two-step TB test (completed by Aug. 1)				
Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Aug - Sep	GSD 005 - Steps to Career Success 1	WA Elective Credit	1	1
Oct - Jan	SGT 113 - Surgical Instrumentation	WA Elective Credit	1	3
Oct - Jan	SGT 118 - Foundations of Surgery	WA Elective Credit	1	4
Total in Oct - Jan Quarter			3	8
Jan - Apr	BIO 180 - Microbiology BIO 181 - Microbiology Lab	WA Science Credit	2	6
Jan - Apr	SGT 130 - Principles of Surgery	WA Elective Credit	1	3
Jan - Apr	SGT 123 - Surgical Prep and Equipment	WA Elective Credit	1	4
Total in Jan - Apr Quarter			4	13
TOTAL in Senior Year			7	21
Recom. Timeframe	First year after graduation		Credits	
July - Oct	MED 148 - Diseases and Diagnostic Methods		5	
July - Oct	MED 227 - Pharmacology for the Surgical Technology		5	
July - Oct	SGT 216 - Surgical Procedures 1		4	
Credits			14	
Oct - Jan	SGT 226 - Surgical Procedures 2		4	
Oct - Jan	SGT 236 - Surgical Procedures 3		4	
Oct - Jan	SGT 246 - Surgical Procedures 4		4	
Credits			12	
Jan - Apr	SGT 264 - Clinical Rounds Review		2	
Jan - Apr	GSD 180 - Career Development		2	
Jan - Apr	SGT 266 - Clinical Rotation		7	
Credits			11	
Apr - July	GSI 218 - Surgical Technical Internship		9	
Apr - July	SGT 268 - CST Review		2	
Credits			11	
Total for first year after graduation			48	



HEALTH SCIENCES PROGRAM: THERAPEUTIC MASSAGE PRACTITIONER CERTIFICATE - 1 + 0.25

Students will begin the program Junior year and finish in July after graduation.

PTC Orientation with families will occur before students begin the program.

Tuition for WA students while in high school for PTC courses will be \$100/credit.

Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Oct - Jan	GSD 005 Steps to Career Success 1	WA Elective Credit	0.25	1
Oct - Jan	TMP 103 - Kinesiology 1 TMP 104 - Kinesiology 1 Lab	WA Science Credit	2	6
Oct - Jan	TMP 116 - Clinic 1	WA Science Credit	1	1
Oct - Jan	TMP 108- Spa Applications	WA Elective Credit	1	2
Oct - Jan	TMP 102 - Introduction to Massage	WA Elective Credit	1	4
Oct - Jan	TMP 111 - Swedish Massage	WA Elective Credit	1	2
Total in Oct - Jan Quarter			6.25	16
Jan - Apr	BIO 150 - Anatomy & Physiology 1 BIO 151 - Anatomy & Physiology 1 Lab	WA Science Credit	2	6
Jan - Apr	TMP126 - Clinic 2	WA Science Credit	1	1
Jan - Apr	TMP 134 - Business Ethics	WA Social Studies Credit	1	3
Jan - Apr	TMP 133 - Integrated Swedish	WA Elective Credit	1	2
Jan - Apr	TMP 113 - Kinesiology 2	WA Elective Credit	1	4
Jan - Apr	TMP 114 - Kinesiology 2 Lab	WA Elective Credit	1	2
Total in Jan - Apr Quarter			7	18
Apr - July	BIO 165 - Anatomy & Physiology 2 BIO 166 - Anatomy & Physiology 2 Lab	WA Science Credit	2	6
Apr - July	MED 148 - Diseases & Diagnostic Methods	WA Elective Credit	1	5
Apr - July	TMP 136 - Clinical 3	WA Elective Credit	1	1
Apr - July	TMP 158 - Adaptive Massage Modalities	WA Elective Credit	1	2
Apr - July	TMP 160 - Captstone	WA Elective Credit	1	2
Apr - July	TMP 159 - Massage Seminar	WA Elective Credit	1	2
TOTAL in Apr - July Quarter			7	18
TOTAL in Senior Year			20.25	52
Recom. Timeframe	First year after graduation		Credits	
Credits			#REF!	
Total for first year after graduation			#REF!	



TRADES PROGRAM:
CAD ARCHITECTURAL ENGINEERING TECHNOLOGY
ASSOCIATE DEGREE - 2 + 0.25

Students will begin the program Senior year and finish in January after graduation.

PTC Orientation with families will occur before students begin the program.

Tuition for WA students while in high school for PTC courses will be \$100/credit (\$50/credit for dual enrollment courses).

Recom. Timeframe	Freshman/Sophomore Year		WA Credits	PTC Credits
Full year @ WA	GEM 166: College Algebra	0317 HEC Algebra 2 (WA CCAC ECIHSA - MAT 108)	1	4
Full year @ WA	CAD 104: Engineering Graphics CAD 114: AutoCAD	0706 Drawing & Design for Engineering & Architecture (WA PTC ECIHSA - CAD 104 & CAD 114)	1	6
TOTAL in Freshman/Sophomore Year			2	10
Recom. Timeframe	Junior Year (Classes @ PTC 11:30 - 2:30)		WA Credits	PTC Credits
Full year @ WA	GEE 101 - English Composition 1 GEE 151 - English Composition 2	0122 AP Eng Lang & Comp (WA CCAC ECIHSA-ENG 101 & 102)	1	8
Full year @ WA	GEE 212 - Effective Speech	0151 Oral Communications (WA CCAC ECIHSA-SPH 101)	1	4
Full year @ WA	GEM 206 - Personal Finance	0735 Personal Finance (WA PTC ECIHSA-GEM 204)	1	4
Oct - Jan	GSD 005 - Steps to Career Success 1 (1D-1H)	WA ELA Credit	1	1
Oct - Jan	AET 101: Microstation (2D-2H)	WA Elective Credit	1	3
Oct - Jan	AET 121: Architectural Drafting 1 (2D-2H)	WA Math Credit	1	3
Oct - Jan	CAD 010: Skills Lab	No credit - Study hall format for drafting	0	0
Jan - Apr	AET 131: Architectural App Software 1 (2D-2H)	WA Elective Credit	1	3
Jan - Apr	GES 151 - Critical Thinking (2D-2H)	WA Social Studies Credit	1	4
Jan - Apr	CAD 010: Skills Lab	No credit - Study hall format for drafting	0	0
TOTAL in Junior Year			8	30
Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Oct - Jan	CAD 154: Industrial Pipe Design	WA Elective Credit	1	4
Oct - Jan	AET 141: Bulding & Life Saftety Systems	WA Elective Credit	1	4
Oct - Jan	AET 201: Architectural App Software 2	WA Elective Credit	1	4
Oct - Jan	CAD 010: Skills Lab	No credit - Study hall format for drafting	0	0
TOTAL in Oct -Jan Quarter			3	12
Jan - Apr	AET 161: Materials & Construction Methods	WA Science Credit	1	3
Jan - Apr	CAD 219: Structural Drafting	WA Elective Credit	1	3
Jan - Apr	CAD 261: Statics & Strength of Materials	WA Science Credit	1	3
Jan - Apr	GSD 180 - Career Development	WA English Credit	1	2
Jan - Apr	CAD 010: Skills Lab	No credit - Study hall format for drafting	0	0
TOTAL in Jan - Apr Quarter			4	11
Apr - July	AET 171: Civil/Topographical Drafting	WA Elective Credit	1	3
Apr - July	AET 181: Civil Application Software	WA Elective Credit	1	3
Apr - July	AET 301: Architectural Capstone	WA Elective Credit	1	5
Apr - July	GES 252: Leadership Principles	WA Elective Credit	1	4
Apr - July	CAD 010: Skills Lab	No credit - Study hall format for drafting	0	0
TOTAL in Apr - July Quarter			4	15
TOTAL in Senior Year			11	38
Recom. Timeframe	First year after graduation		Credits	
July - Oct	GSI 192/193 - Internship		12	
Credits			12	
Total for first year after graduation			12	



TRADES PROGRAM:
CAD ARCHITECTURAL ENGINEERING TECHNOLOGY
ASSOCIATE DEGREE - 1 + 0.5

Students will begin the program Senior year and finish in January after graduation.

PTC Orientation with families will occur before students begin the program.

Tuition for WA students while in high school for PTC courses will be \$100/credit (\$50/credit for dual enrollment courses).

Recom. Timeframe	Freshman/Sophomore/Junior Year		WA Credits	PTC Credits
Full year @ WA	GEM 166: College Algebra	0317 HEC Algebra 2 (WA CCAC ECIHSA - MAT 108)	1	4
Full year @ WA	CAD 104: Engineering Graphics CAD 114: AutoCAD	0706 Drawing & Design for Engineering & Architecture (WA PTC ECIHSA - CAD 104 & CAD 114)	1	6
Full year @ WA	GEE 101 - English Composition 1 GEE 151 - English Composition 2	0122 AP Eng Lang & Comp (WA CCAC ECIHSA-ENG 101 & 102)	1	8
Full year @ WA	GEE 212 - Effective Speech	0151 Oral Communications (WA CCAC ECIHSA-SPH 101)	1	4
Full year @ WA	GEM 206 - Personal Finance	0735 Personal Finance (WA PTC ECIHSA - GEM 204)	1	4
TOTAL in Freshman/Sophomore/Junior Year			5	26
Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Oct - Jan	GSD 005 - Steps to Career Success 1	WA ELA Credit	1	1
Oct - Jan	AET 101: Microstation	WA Elective Credit	1	3
Oct - Jan	AET 121: Architectural Drafting 1	WA Math Credit	1	3
Oct - Jan	GES 151 - Critical Thinking	WA Social Studies Credit	1	4
Oct - Jan	CAD 010: Skills Lab	No credit - Study hall format for drafting	0	0
TOTAL in Oct - Jan Quarter			4	11
Jan - Apr	AET 131: Architectural App Software 1	WA Elective Credit	1	3
Jan - Apr	CAD 154: Industrial Pipe Design	WA Elective Credit	1	4
Jan - Apr	AET 141: Bulding & Life Saftety Systems	WA Elective Credit	1	4
Jan - Apr	AET 161: Materials & Construction Methods	WA Science Credit	1	3
Jan - Apr	CAD 010: Skills Lab	No credit - Study hall format for drafting	0	0
TOTAL in Jan - Apr Quarter			4	14
Apr - July	AET 201: Architectural App Software 2	WA Elective Credit	1	4
Apr - July	CAD 219: Structural Drafting	WA Elective Credit	1	3
Apr - July	CAD 261: Statics & Strength of Materials	WA Science Credit	1	3
Apr - July	GSD 180 - Career Development	WA English Credit	1	2
Apr - July	GES 252: Leadership Principles	WA Elective Credit	1	4
Apr - July	CAD 010: Skills Lab	No credit - Study hall format for drafting	0	0
TOTAL in Apr - July Quarter			5	16
TOTAL in Senior Year			13	41
Recom. Timeframe	First year after graduation		Credits	
July - Oct	AET 171: Civil/Topographical Drafting		3	
July - Oct	AET 181: Civil Application Software		3	
July - Oct	AET 301: Architectural Capstone		5	
Credits			11	
Oct - Jan	GSI 192/193 - Internship		12	
Credits			12	
Total for first year after graduation			23	



**TRADES PROGRAM:
CAD MECHANICAL ENGINEERING TECHNOLOGY
ASSOCIATE DEGREE - 2 + 0.25**

Students will begin the program Junior year and finish in October after graduation.

PTC Orientation with families will occur before students begin the program.

Tuition for WA students while in high school for PTC courses will be \$100/credit (\$50/credit for dual enrollment courses).

Recom. Timeframe	Freshman/Sophomore Year		WA Credits	PTC Credits
Full year @ WA	GEM 166: College Algebra	0317 HEC Algebra 2 (WA CCAC ECISHA - MAT 108)	1	4
Full year @ WA	CAD 104: Engineering Graphics CAD 114: AutoCAD	0706 Drawing & Design for Engineering & Architecture (WA PTC ECISHA - CAD 104 & CAD 114)	1	6
TOTAL in Freshman/Sophomore Year			2	10
Recom. Timeframe	Junior Year (Classes @ PTC 11:30 - 2:30)		WA Credits	PTC Credits
Full year @ WA	GEE 101 - English Composition 1 GEE 151 - English Composition 2	0122 AP Eng Lang & Comp (WA CCAC ECIHSA-ENG 101 & 102)	1	8
Full year @ WA	GEE 212 - Effective Speech	0151 Oral Communications (WA CCAC ECIHSA-SPH 101)	1	4
Full year @ WA	GEM 206 - Personal Finance	0735 Personal Finance (WA PTC ECIHSA-GEM 204)	1	4
Oct - Jan	GSD 005 - Steps to Career Success 1 (1D-1H)	WA ELA Credit	1	1
Oct - Jan	MET 101: Introduction to Manufacturing (2D-2H)	WA Elective Credit	1	3
Oct - Jan	CAD 154: Industrial Pipe Design (2D-2/3)	WA Elective Credit	1	4
Oct - Jan	CAD 010: Skills Lab	No credit - Study hall format for drafting	0	0
Jan - Apr	MET 111: Intro to Parametric Modeling (2D-2H)	WA Elective Credit	1	3
Jan - Apr	GES 151 - Critical Thinking (2D-2H)	WA Social Studies Credit	1	4
Jan - Apr	CAD 010: Skills Lab	No credit - Study hall format for drafting	0	0
TOTAL in Junior Year			8	31
Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Oct - Jan	MET 121: Introduction to Mechanical Design	WA Elective Credit	1	3
Oct - Jan	MET 131: Energy Technology	WA Science Credit	1	3
Oct - Jan	CAD 010: Skills Lab	No credit - Study hall format for drafting	0	0
TOTAL in Oct -Jan Quarter			2	6
Jan - Apr	MET 141: Mechanical Application Software 1	WA Elective Credit	1	4
Jan - Apr	MET 201: Mechanical & Fabrication Design	WA Elective Credit	1	4
Jan - Apr	CAD 219: Structural Drafting	WA Elective Credit	1	3
Jan - Apr	CAD 261: Statics & Strength of Materials	WA Science Credit	1	3
Jan - Apr	GSD 180 - Career Development	WA English Credit	1	2
Jan - Apr	CAD 010: Skills Lab	No credit - Study hall format for drafting	0	0
TOTAL in Jan - Apr Quarter			5	16
Apr - July	MET 221: Mechanical Application Software 2	WA Elective Credit	1	3
Apr - July	MET 231: Geometric Tolerance	WA Math Credit	1	3
Apr - July	MET 301: Mechanical Capstone	WA Elective Credit	1	5
Apr - July	GES 252: Leadership Principles	WA Elective Credit	1	4
Apr - July	CAD 010: Skills Lab	No credit - Study hall format for drafting	0	0
TOTAL in Apr - July Quarter			4	15
TOTAL in Senior Year			11	37
Recom. Timefram	First year after graduation		Credits	
July - Oct	GSI 192/193 - Internship		12	
Credits			12	
Total for first year after graduation			12	



TRADES PROGRAM:
CAD MECHANICAL ENGINEERING TECHNOLOGY
ASSOCIATE DEGREE - 1 + 0.5

Students will begin the program Junior year and finish in October after graduation.

PTC Orientation with families will occur before students begin the program.

Tuition for WA students while in high school for PTC courses will be \$100/credit (\$50/credit for dual enrollment courses).

Recom. Timeframe	Freshman/Sophomore/Junior Year		WA Credits	PTC Credits
Full year @ WA	GEM 166: College Algebra	0317 HEC Algebra 2 (WA CCAC ECISHA - MAT 108)	1	4
Full year @ WA	CAD 104: Engineering Graphics CAD 114: AutoCAD	0706 Drawing & Design for Engineering & Architecture (WA PTC ECISHA - CAD 104 & CAD 114)	1	6
Full year @ WA	GEE 101 - English Composition 1 GEE 151 - English Composition 2	0122 AP Eng Lang & Comp (WA CCAC ECISHA-ENG 101 & 102)	1	8
Full year @ WA	GEE 212 - Effective Speech	0151 Oral Communications (WA CCAC ECISHA-SPH 101)	1	4
Full year @ WA	GEM 206 - Personal Finance	0735 Personal Finance (WA PTC ECISHA-GEM 204)	1	4
TOTAL in Freshman/Sophomore/Junior Year			5	26
Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Oct - Jan	GSD 005 - Steps to Career Success 1	WA ELA Credit	1	1
Oct - Jan	MET 101: Introduction to Manufacturing	WA Elective Credit	1	3
Oct - Jan	CAD 154: Industrial Pipe Design	WA Elective Credit	1	4
Oct - Jan	GES 151 - Critical Thinking	WA Social Studies Credit	1	4
Oct - Jan	CAD 010: Skills Lab	No credit - Study hall format for drafting	0	0
TOTAL in Oct -Jan Quarter			4	12
Jan - Apr	MET 111: Intro to Parametric Modeling	WA Elective Credit	1	3
Jan - Apr	MET 121: Introduction to Mechanical Design	WA Elective Credit	1	3
Jan - Apr	MET 131: Energy Technology	WA Science Credit	1	3
Jan - Apr	GSD 180 - Career Development	WA English Credit	1	2
Jan - Apr	CAD 010: Skills Lab	No credit - Study hall format for drafting	0	0
TOTAL in Jan - Apr Quarter			4	11
Apr - July	MET 141: Mechanical Application Software 1	WA Elective Credit	1	4
Apr - July	MET 201: Mechanical & Fabrication Design	WA Elective Credit	1	4
Apr - July	CAD 219: Structural Drafting	WA Elective Credit	1	3
Apr - July	CAD 261: Statics & Strength of Materials	WA Science Credit	1	3
Apr - July	GES 252: Leadership Principles	WA Elective Credit	1	4
Apr - July	CAD 010: Skills Lab	No credit - Study hall format for drafting	0	0
TOTAL in Apr - July Quarter			5	18
TOTAL in Senior Year			13	41
Recom. Timeframe	First year after graduation		Credits	
July - Oct	MET 221: Mechanical Application Software 2		3	
July - Oct	MET 231: Geometric Tolerance		3	
July - Oct	MET 301: Mechanical Capstone		5	
July - Oct	CAD 010: Skills Lab		0	
Credits			11	
Oct - Jan	GSI 192/193 - Internship		12	
Credits			12	
Total for first year after graduation			23	



TRADES PROGRAM: WELDING TECHNOLOGY CERTIFICATE - 2 Years

Students will begin the program Junior year and finish in April of senior year.
PTC Orientation with families will occur before students begin the program.
Tuition for WA students while in high school for PTC courses will be \$100/credit.

Recom. Timeframe	Freshman/Sophomore Year		WA Credits	PTC Credits
Full year @ WA	GEM 120: College Mathematics	0317 HEC Algebra 2 (WA CCAC ECISHA - MAT 108)	1	4
TOTAL in Freshman/Sophomore Year			1	4
Recom. Timeframe	Junior Year (Classes @ PTC 11:30 - 2:30)		WA Credits	PTC Credits
Oct - Jan	GSD 005 - Steps to Career Success 1 (1D-1H)	WA ELA Credit	1	1
Oct - Jan	WEL 101 - Intro to Welding (3D-1/2/2)	WA Science Credit	1	3
Oct - Jan	WEL 116 - Metal Cutting (3D-1/2/2)	WA Elective Credit	1	3
Oct - Jan	WEL 126 - Blueprint Reading & Symbols (2D-1/2)	WA Elective Credit	1	3
Jan - Apr	WEL 214 - Shielded Metal Arc Welding (3D-3H)	WA Elective Credit	1	6
Jan - Apr	GEM 206 - Personal Finance (2D-2H)	WA Math Credit	1	4
TOTAL in Junior Year			6	20
Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Oct - Jan	WEL 306 - Welding Certification/Prep	WA Elective Credit	1	3
Oct - Jan	WEL 326 - SMAW Pipe Welding	WA Elective Credit	1	5
Oct - Jan	WEL 336 - Advanced Plate Welding	WA Elective Credit	1	3
Oct - Jan	GSD 180 - Career Development	WA English Credit	1	2
TOTAL in Oct-Jan Quarter			4	13
Jan - Apr	WEL 401 - Gas Metal Arc Welding	WA Elective Credit	1	3
Jan - Apr	WEL 411 - Gas Tungsten Arc Welding	WA Elective Credit	1	3
Jan - Apr	WEL 421 - MIG & TIG Prep	WA Elective Credit	1	2
Jan - Apr	WEL 431 - Flux Core Arc Welding	WA Elective Credit	1	3
Jan - Apr	WEL 435 - Blueprints 2	WA Elective Credit	1	2
Jan - Apr	WEL 441 - Exotic Metals	WA Elective Credit	1	2
TOTAL in Jan - Apr Quarter			6	15
TOTAL in Senior Year			10	28



TRADES PROGRAM: WELDING TECHNOLOGY CERTIFICATE - 1 + 0.25

Students will begin the program Senior year and finish in October after graduation.

PTC Orientation with families will occur before students begin the program.

Tuition for WA students while in high school for PTC courses will be \$100/credit.

Recom. Timeframe	Freshman/Sophomore/Junior Year		WA Credits	PTC Credits
Full year @ WA	GEM 120: College Mathematics	0317 HEC Algebra 2 (WA CCAC ECISHA - MAT 108)	1	4
TOTAL in Freshman/Sophomore/Junior Year			1	4
Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Oct - Jan	GSD 005 - Steps to Career Success 1	WA ELA Credit	1	1
Oct - Jan	WEL 101 - Intro to Welding	WA Science Credit	1	3
Oct - Jan	WEL 116 - Metal Cutting	WA Elective Credit	1	3
Oct - Jan	WEL 126 - Blueprint Reading & Symbols	WA Elective Credit	1	3
TOTAL in Oct - Jan Quarter			4	10
Jan - Apr	WEL 214 - Shielded Metal Arc Welding	WA Elective Credit	1	6
Jan - Apr	GEM 206 - Personal Finance	WA Math Credit	1	4
Jan - Apr	GSD 180 - Career Development	WA English Credit	1	2
TOTAL in Jan - Apr Quarter			3	12
Apr - July	WEL 306 - Welding Certification/Prep	WA Elective Credit	1	3
Apr - July	WEL 326 - SMAW Pipe Welding	WA Elective Credit	1	5
Apr - July	WEL 336 - Advanced Plate Welding	WA Elective Credit	1	3
TOTAL in Apr - July Quarter			3	11
TOTAL in Senior Year			10	33
Recom. Timeframe	First year after graduation		PTC Credits	
July - Oct	WEL 401 - Gas Metal Arc Welding		3	
July - Oct	WEL 411 - Gas Tungsten Arc Welding		3	
July - Oct	WEL 421 - MIG & TIG Prep		2	
July - Oct	WEL 431 - Flux Core Arc Welding		3	
July - Oct	WEL 435 - Blueprints 2		2	
July - Oct	WEL 441 - Exotic Metals		2	
Credits			15	
Total for first year after graduation:			15	



TRADES PROGRAM: WELDING TECHNOLOGY ASSOCIATE DEGREE - 2 + 0.5

Students will begin the program Junior year and finish in January after graduation.
PTC Orientation with families will occur before students begin the program.
Tuition for WA students while in high school for PTC courses will be \$100/credit.

Recom. Timeframe	Freshman/Sophomore Year		WA Credits	PTC Credits
Full year @ WA	GEM 120: College Mathematics	0317 HEC Algebra 2 (WA CCAC ECISHA - MAT 108)	1	4
TOTAL in Freshman/Sophomore Year			1	4
Recom. Timeframe	Junior Year (Classes @ PTC 11:30 - 2:30)		WA Credits	PTC Credits
Full year @ WA	GEE 100 - English Composition 1 GEE 150 - English Composition 2	0122 AP Eng Lang & Comp (WA CCAC ECIHSA-ENG 101 & 102)	1	6
Full year @ WA	GES 131 - Ethics	0249 AP Psychology (WA RMU ECIHSA - PSYC 1010: General Psychology)	1	3
Full year @ WA	GEM 204 - Personal Finance	0735 Personal Finance (WA PTC ECIHSA-GEM 204)	1	4
Full year @ WA	GEE 212 - Effective Speech	0151 Oral Communications (WA CCAC ECIHSA-SPH 101)	1	3
Oct - Jan	GSD 005 - Steps to Career Success 1 (1D-1H)	WA ELA Credit	1	1
Oct - Jan	WEL 101 - Intro to Welding (3D-1/2/2)	WA Science Credit	1	3
Oct - Jan	WEL 116 - Metal Cutting (3D-1/2/2)	WA Elective Credit	1	3
Oct - Jan	WEL 126 - Blueprint Reading & Symbols (2D-1/2)	WA Elective Credit	1	3
Jan - Apr	WEL 214 - Shielded Metal Arc Welding (3D-3H)	WA Elective Credit	1	6
TOTAL in Junior Year			9	32
Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Oct - Jan	WEL 401 - Gas Metal Arc Welding	WA Elective Credit	1	3
Oct - Jan	WEL 411 - Gas Tungsten Arc Welding	WA Elective Credit	1	3
Oct - Jan	GES 151 - Critical Thinking	WA Social Studies Credit	1	4
Oct - Jan	GEM 201 - Trigonometry (pending)	WA Math Credit	1	4
TOTAL in Oct - Jan Quarter			4	14
Jan - Apr	WEL 306 - Welding Certification/Prep	WA Elective Credit	1	4
Jan - Apr	WEL 326 - SMAW Pipe Welding	WA Elective Credit	1	5
Jan - Apr	WEL 336 - Advanced Plate Welding	WA Elective Credit	1	3
Jan - Apr	GES 201 - Human Relations in Org	WA Social Studies Credit	1	4
TOTAL in Jan - Apr Quarter			4	16
Apr - July	WEL 012 - Steps to Career Success 2	WA Elective Credit	1	1
Apr - July	WEL 421 - MIG & TIG Prep	WA Elective Credit	1	2
Apr - July	WEL 431 - Flux Core Arc Welding	WA Elective Credit	1	3
Apr - July	WEL 435 - Blueprints 2	WA Elective Credit	1	1
Apr - July	GSD 180 - Career Development	WA Elective Credit	1	2
Apr - July	WEL 406 - GTAW Pipe Welding	WA Elective Credit	1	6
TOTAL in Apr - July Quarter			6	15
TOTAL in Senior Year			14	45
Recom. Timeframe	First year after graduation		Credits	
July - Oct	WEL 218 - Advanced Pipe Welding		5	
July - Oct	WEL 441 - Exotic Metals		2	
July - Oct	WEL 416 - GTAW/SMAW Pipe Welding		5	
July - Oct	WEL 427 - GTAW Tube		3	
Credits			15	
Oct - Jan	GSI 199 - Internship		12	
Credits			12	
Total for first year after graduation			27	



TRADES PROGRAM: WELDING TECHNOLOGY ASSOCIATE DEGREE - 1 + 0.75

Students will begin the program Senior year and finish in April after graduation.
PTC Orientation with families will occur before students begin the program.
Tuition for WA students while in high school for PTC courses will be \$100/credit.

Recom. Timeframe	Freshman/Sophomore/Junior Year		WA Credits	PTC Credits
Full year @ WA	GEM 121: College Mathematics	0317 HEC Algebra 2 (WA CCAC ECISHA - MAT 108)	1	4
Full year @ WA	GEE 101 - English Composition 1 GEE 151 - English Composition 2	0122 AP Eng Lang & Comp (WA CCAC ECIHSA-ENG 101 & 102)	1	8
Full year @ WA	GES 131 - Ethics	0249 AP Psychology (WA RMU ECIHSA - PSYC 1010: General Psychology)	1	3
Full year @ WA	GEM 206 - Personal Finance	0735 Personal Finance (WA PTC ECIHSA-GEM 204)	1	4
Full year @ WA	GEE 212 - Effective Speech	0151 Oral Communications (WA CCAC ECIHSA-SPH 101)	1	4
TOTAL in Freshman/Sophomore/Junior Year			5	23
Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Oct - Jan	GSD 005 - Steps to Career Success 1	WA ELA Credit	1	1
Oct - Jan	WEL 101 - Intro to Welding	WA Science Credit	1	3
Oct - Jan	WEL 116 - Metal Cutting	WA Elective Credit	1	3
Oct - Jan	WEL 126 - Blueprint Reading & Symbols	WA Elective Credit	1	3
TOTAL in Oct - Jan Quarter			4	10
Jan - Apr	WEL 214 - Shielded Metal Arc Welding	WA Elective Credit	1	6
Jan - Apr	GES 151 - Critical Thinking	WA Social Studies Credit	1	4
Jan - Apr	WEL 401 - Gas Metal Arc Welding	WA Elective Credit	1	3
Jan - Apr	WEL 411 - Gas Tungsten Arc Welding	WA Elective Credit	1	3
TOTAL in Jan - Apr Quarter			4	16
Apr - July	WEL 306 - Welding Certification/Prep	WA Elective Credit	1	4
Apr - July	WEL 326 - SMAW Pipe Welding	WA Elective Credit	1	5
Apr - July	WEL 336 - Advanced Plate Welding	WA Elective Credit	1	3
Apr - July	GEM 201 - Trigonometry (pending)	WA Math Credit	1	4
Apr - July	WEL 012 - Steps to Career Success 2	WA Elective Credit	1	1
Apr - July	WEL 421 - MIG & TIG Prep	WA Elective Credit	1	2
TOTAL in Apr - July Quarter			6	19
TOTAL in Senior Year			14	45
Recom. Timeframe	First year after graduation		Credits	
July - Oct	GES 201 - Human Relations in Org		4	
July - Oct	WEL 431 - Flux Core Arc Welding		3	
July - Oct	WEL 435 - Blueprints 2		1	
July - Oct	GSD 180 - Career Development		2	
July - Oct	WEL 406 - GTAW Pipe Welding		6	
Credits			16	
Oct - Jan	WEL 218 - Advanced Pipe Welding		5	
Oct - Jan	WEL 441 - Exotic Metals		2	
Oct - Jan	WEL 416 - GTAW/SMAW Pipe Welding		5	
Oct - Jan	WEL 427 - GTAW Tube		3	
Credits			15	
Jan - Apr	GSI 199 - Internship		12	
Credits			12	
Total for first year after graduation			43	



TRADES PROGRAM: HVAC TECHNOLOGY CERTIFICATE - 2 + 0.25

Students will begin the program Junior year and finish in October after graduation.

PTC Orientation with families will occur before students begin the program.

Tuition for WA students while in high school for PTC courses will be \$100/credit.

Recom. Timeframe	Freshman/Sophomore Year		WA Credits	PTC Credits
Full year @ WA	GEM 121: College Mathematics	0317 HEC Algebra 2 (WA CCAC ECISHA - MAT 108)	1	4
TOTAL in Freshman/Sophomore Year			1	4
Recom. Timeframe	Junior Year (Classes @ PTC 11:30 - 2:30)		WA Credits	PTC Credits
Oct - Jan	GSD 005 - Steps to Career Success 1 (1D-1H)	WA ELA Credit	1	1
Oct - Jan	HVA 109 - Fundamentals of Electricity (2D-3H)	WA Science Credit	1	5
Oct - Jan	HVA 113 - Heating Systems 1 (3D-3/3/2)	WA Math Credit	1	4
Jan - Apr	HVA 119 - Welding & Sheet Metal Fabrication (2D-3H)	WA Elective Credit	1	4
Jan - Apr	HVA 153 - Load Calculations & Psychometrics (2D-3H)	WA Math Credit	1	6
TOTAL in Junior Year			5	20
Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Oct - Jan	HVA 129 - Heating Systems 2	WA Elective Credit	1	5
Oct - Jan	HVA 134 - Residential Refrigeration	WA Elective Credit	1	5
TOTAL in Oct-Jan Quarter			2	10
Jan - Apr	HVA 124 - Cust Serv & Career Dev for HVAC	WA Elective Credit	1	6
Jan - Apr	HVA 138 - Hydronics	WA Science Credit	1	4
Jan - Apr	HVA 144 - HVAC-R Controls	WA Elective Credit	1	4
Jan - Apr	HVA 149 - Commercial Refrigeration	WA Elective Credit	1	5
TOTAL in Jan - Apr Quarter			4	19
Apr - July	HVA 158 - Troubleshooting & Diagnostics	WA Elective Credit	1	3
Apr - July	HVA 164 - Chiller Systems	WA Elective Credit	1	4
Apr - July	HVA 169 - Certification Preparation	WA Elective Credit	1	5
TOTAL in Apr - July Quarter			3	12
TOTAL in Senior Year			9	41
Recom. Timeframe	First year after graduation		PTC Credits	
July - Oct	GSI 199 - Internship		12	
Credits			12	
Total for first year after graduation:			12	



TRADES PROGRAM: HVAC TECHNOLOGY CERTIFICATE - 1 + 0.5

Students will begin the program Senior year and finish in January after graduation.

PTC Orientation with families will occur before students begin the program.

Tuition for WA students while in high school for PTC courses will be \$100/credit.

Recom. Timeframe	Freshman/Sophomore/Junior Year		WA Credits	PTC Credits
Full year @ WA	GEM 121: College Mathematics	0317 HEC Algebra 2 (WA CCAC ECISHA - MAT 108)	1	4
TOTAL in Freshman/Sophomore/Junior Year			1	4
Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Oct - Jan	GSD 005 - Steps to Career Success 1	WA ELA Credit	1	1
Oct - Jan	HVA 109 - Fundamentals of Electricity	WA Science Credit	1	5
Oct - Jan	HVA 113 - Heating Systems 1	WA Math Credit	1	4
Oct - Jan	HVA 119 - Welding & Sheet Metal Fabrication	WA Elective Credit	1	4
TOTAL in Oct - Jan Quarter			4	14
Jan - Apr	HVA 129 - Heating Systems 2	WA Elective Credit	1	5
Jan - Apr	HVA 134 - Residential Refrigeration	WA Elective Credit	1	5
Jan - Apr	HVA 153 - Load Calculations & Psychometrics	WA Math Credit	1	6
TOTAL in Jan - Apr Quarter			3	16
Apr - July	HVA 124 - Cust Serv & Career Dev for HVAC	WA Elective Credit	1	6
Apr - July	HVA 138 - Hydronics	WA Science Credit	1	4
Apr - July	HVA 144 - HVAC-R Controls	WA Elective Credit	1	4
Apr - July	HVA 149 - Commercial Refrigeration	WA Elective Credit	1	5
TOTAL in Apr - July Quarter			4	19
TOTAL in Senior Year			11	49
Recom. Timeframe	First year after graduation		PTC Credits	
July - Oct	HVA 158 - Troubleshooting & Diagnostics		3	
July - Oct	HVA 164 - Chiller Systems		4	
July - Oct	HVA 169 - Certification Preparation		5	
Credits			12	
Oct - Jan	GSI 199 - Internship		12	
Credits			12	
Total for first year after graduation:			24	



TRADES PROGRAM: HVAC TECHNOLOGY ASSOCIATE DEGREE - 2 + 0.5

Students will begin the program Junior year and finish in January after graduation.

PTC Orientation with families will occur before students begin the program.

Tuition for WA students while in high school for PTC courses will be \$100/credit.

Recom. Timeframe	Freshman/Sophomore Year		WA Credits	PTC Credits
Full year @ WA	GEM 121: College Mathematics	0317 HEC Algebra 2 (WA CCAC ECISHA - MAT 108)	1	4
TOTAL in Freshman/Sophomore Year			1	4
Recom. Timeframe	Junior Year (Classes @ PTC 11:30 - 2:30)		WA Credits	PTC Credits
Full year @ WA	GEE 101 - English Composition 1 GEE 151 - English Composition 2	0122 AP Eng Lang & Comp (WA CCAC ECIHSA-ENG 101 & 102)	1	8
Full year @ WA	GES 131 - Ethics	0249 AP Psychology (WA RMU ECIHSA - PSYC 1010: General Psychology)	1	4
Full year @ WA	GEE 212 - Effective Speech	0151 Oral Communications (WA CCAC ECIHSA-SPH 101)	1	4
Full year @ WA	GEM 206 - Personal Finance	0735 Personal Finance (WA PTC ECIHSA-GEM 204)	1	4
Oct - Jan	GSD 005 - Steps to Career Success 1 (1D-1H)	WA ELA Credit	1	1
Oct - Jan	HVA 109 - Fundamentals of Electricity (2D-3H)	WA Science Credit	1	5
Oct - Jan	HVA 113 - Heating Systems 1 (3D-3/3/2)	WA Math Credit	1	4
Jan - Apr	HVA 119 - Welding & Sheet Metal Fabrication (2D-3H)	WA Elective Credit	1	4
Jan - Apr	GES 151 - Critical Thinking (2D-2H)	WA Social Studies Credit	1	4
Jan - Apr	HVA 153 - Load Calculations & Psychometrics (2D-3H)	WA Math Credit	1	6
TOTAL in Junior Year			10	44
Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Oct - Jan	HVA 129 - Heating Systems 2	WA Elective Credit	1	5
Oct - Jan	HVA 134 - Residential Refrigeration	WA Elective Credit	1	5
Oct - Jan	GES 201 - Human Relations in Org	WA Social Studies Credit	1	4
TOTAL in Oc t -Jan Quarter			3	14
Jan - Apr	HVA 144 - HVAC-R Controls	WA Elective Credit	1	4
Jan - Apr	HVA 012 Steps to Career Success 2	WA Social Studies Credit	1	1
Jan - Apr	HVA 149 - Commercial Refrigeration	WA Elective Credit	1	5
Jan - Apr	HVA 138 - Hydronics	WA Science Credit	1	4
TOTAL in Jan - Apr Quarter			4	14
Apr - July	HVA 124 - Cust Serv & Career Dev for HVAC	WA Elective Credit	1	6
Apr - July	HVA 158 - Troubleshooting & Diagnostics	WA Elective Credit	1	3
TOTAL in Apr - July Quarter			2	9
TOTAL in Senior Year			9	37
Recom. Timeframe	First year after graduation		Credits	
July - Oct	HVA 164 - Chiller Systems		4	
July - Oct	HVA 169 - Certification Preparation		5	
Credits			9	
Oct - Jan	GSI 199 - Internship		12	
Credits			12	
Total for first year after graduation			21	



TRADES PROGRAM: HVAC TECHNOLOGY ASSOCIATE DEGREE - 1 + 0.75

Students will begin the program Senior year and finish in April after graduation.

PTC Orientation with families will occur before students begin the program.

Tuition for WA students while in high school for PTC courses will be \$100/credit.

Recom. Timeframe	Freshman/Sophomore/Junior Year		WA Credits	PTC Credits
Full year @ WA	GEM 120: College Mathematics	0317 HEC Algebra 2 (WA CCAC ECIHSA - MAT 108)	1	4
Full year @ WA	GEE 100 - English Composition 1 GEE 150 - English Composition 2	0122 AP Eng Lang & Comp (WA CCAC ECIHSA-ENG 101 & 102)	1	6
Full year @ WA	GES 131 - Ethics	0249 AP Psychology (WA RMU ECIHSA - PSYC 1010: General Psychology)	1	3
Full year @ WA	GEE 212 - Effective Speech	0151 Oral Communications (WA CCAC ECIHSA-SPH 101)	1	3
Full year @ WA	GEM 204 - Personal Finance	0735 Personal Finance (WA PTC ECIHSA-GEM 204)	1	4
TOTAL in Freshman/Sophomore/Junior Year			5	20
Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Oct - Jan	GSD 005 - Steps to Career Success 1	WA ELA Credit	1	6
Oct - Jan	HVA 109 - Fundamentals of Electricity	WA Science Credit	1	6
Oct - Jan	HVA 113 - Heating Systems 1	WA Math Credit	1	4
Oct - Jan	HVA 119 - Welding & Sheet Metal Fabrication	WA Elective Credit	1	4
TOTAL in Oct - Jan Quarter			4	20
Jan - Apr	HVA 129 - Heating Systems 2	WA Elective Credit	1	6
Jan - Apr	HVA 134 - Residential Refrigeration	WA Elective Credit	1	6
Jan - Apr	GES 151 - Critical Thinking	WA Social Studies Credit	1	4
TOTAL in Jan - Apr Quarter			3	16
Apr - July	HVA 012 Steps to Career Success 2	WA Social Studies Credit	1	1
Apr - July	HVA 138 - Hydronics	WA Science Credit	1	4
Apr - July	HVA 144 - HVAC-R Controls	WA Elective Credit	1	6
Apr - July	GES 201 - Human Relations in Org	WA Social Studies Credit	1	4
TOTAL in Apr - July Quarter			4	15
TOTAL in Senior Year			11	51
Recom. Timeframe	First year after graduation		Credits	
July - Oct	HVA 149 - Commercial Refrigeration		5	
July - Oct	HVA 153 - Load Calculations & Psychometrics		6	
July - Oct	HVA 124 - Cust Serv & Career Dev for HVAC		6	
Credits			17	
Oct - Jan	HVA 164 - Chiller Systems		4	
Oct - Jan	HVA 169 - Certification Preparation		5	
Oct - Jan	HVA 158 - Troubleshooting & Diagnostics		3	
Credits			17	
Jan - Apr	GSI 199 - Internship		12	
Credits			12	
Total for first year after graduation			46	



**TRADES PROGRAM:
ROBOTICS & AUTONOMOUS ENGINEERING TECHNOLOGY
ASSOCIATE DEGREE - 2 + 0.5**

Students will begin the program Junior year and finish in October after graduation.

PTC Orientation with families will occur before students begin the program.

Tuition for WA students while in high school for PTC courses will be \$100/credit (\$50/credit for dual enrollment courses).

Recom. Timeframe	Freshman/Sophomore Year		WA Credits	PTC Credits
Full year @ WA	GEM 166: College Algebra	0317 HEC Algebra 2 (WA CCAC ECISHA - MAT 108)	1	4
Full year @ WA	CAD 104: Engineering Graphics CAD 114: AutoCAD	0706 Drawing & Design for Engineering & Architecture (WA PTC ECISHA - CAD 104 & CAD 114)	1	6
TOTAL in Freshman/Sophomore Year			2	10
Recom. Timeframe	Junior Year (Classes @ PTC 11:30 - 2:30)		WA Credits	PTC Credits
Full year @ WA	GEE 101 - English Composition 1 GEE 151 - English Composition 2	0122 AP Eng Lang & Comp (WA CCAC ECISHA-ENG 101 & 102)	1	8
Full year @ WA	GEE 212 - Effective Speech	0151 Oral Communications (WA CCAC ECISHA-SPH 101)	1	4
Oct - Jan	GSD 005 - Steps to Career Success 1 (1D-1H)	WA ELA Credit	1	1
Oct - Jan	GES 102: Wellness & Resilience for College & Beyond	WA Elective Credit	1	4
Oct - Jan	ELC 131: Blueprint Reading	WA Elective Credit	1	2
Oct - Jan	ELT 010: Skills Lab	No credit - Study hall format	0	0
Jan - Apr	MET 101: Introduction to Manufacturing (2D-2H)	WA Elective Credit	1	3
Jan - Apr	ELT 102: Math for Engineering Technology	WA Math Credit	1	4
Jan - Apr	ELT 010: Skills Lab	No credit - Study hall format	0	0
TOTAL in Junior Year			7	26
Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Oct - Jan	ELT 103: Intro to Electronics	WA Science Credit	1	4
Oct - Jan	MET 111: Intro to Parametric Modeling (2D-2H)	WA Elective Credit	1	3
Oct - Jan	GES 151 - Critical Thinking (2D-2H)	WA Social Studies Credit	1	4
Oct - Jan	ELT 010: Skills Lab	No credit - Study hall format	0	0
TOTAL in Oct -Jan Quarter			3	11
Jan - Apr	ELT 248: Robotics	WA Elective Credit	1	4
Jan - Apr	GEM 201: Trigonometry	WA Math Credit	1	4
Jan - Apr	GEE 316: Technical Report Writing	WA Elective Credit	1	4
Jan - Apr	GSD 180 - Career Development	WA English Credit	1	2
Jan - Apr	ELT 010: Skills Lab	No credit - Study hall format	0	0
TOTAL in Jan - Apr Quarter			4	14
Apr - July	MET 221: Mechanical Application Software 2	WA Elective Credit	1	3
Apr - July	IST 421: Project Management	WA Elective Credit	1	4
Apr - July	ITA 297: Network Operating Systems 3	WA Elective Credit	1	5
Apr - July	ELT 010: Skills Lab	No credit - Study hall format	0	0
TOTAL in Apr - July Quarter			3	12
TOTAL in Senior Year			10	37
Recom. Timeframe	First year after graduation		Credits	
July - Oct	ELC 161: Motor Controls		5	
July - Oct	ELT 276: Physics for Engineering Technology		4	
July - Oct	IST 376: Intro to Robotics and AI Programming		4	
Credits			13	
Oct - Jan	GES 252: Leadership Principles		4	
Oct - Jan	GSI 192: Internship		8	
Credits			12	
Total for first year after graduation			25	



TRADES PROGRAM:
ROBOTICS & AUTONOMOUS ENGINEERING TECHNOLOGY
ASSOCIATE DEGREE - 1 + 0.75

Students will begin the program Senior year and finish in April after graduation.

PTC Orientation with families will occur before students begin the program.

Tuition for WA students while in high school for PTC courses will be \$100/credit (\$50/credit for dual enrollment courses).

Recom. Timeframe	Freshman/Sophomore/Junior Year		WA Credits	PTC Credits
Full year @ WA	GEM 166: College Algebra	0317 HEC Algebra 2 (WA CCAC ECISHA - MAT 108)	1	4
Full year @ WA	CAD 104: Engineering Graphics CAD 114: AutoCAD	0706 Drawing & Design for Engineering & Architecture (WA PTC ECISHA - CAD 104 & CAD 114)	1	6
Full year @ WA	GEE 101 - English Composition 1 GEE 151 - English Composition 2	0122 AP Eng Lang & Comp (WA CCAC ECIHSA-ENG 101 & 102)	1	8
Full year @ WA	GEE 212 - Effective Speech	0151 Oral Communications (WA CCAC ECIHSA-SPH 101)	1	4
TOTAL in Freshman/Sophomore/Junior Year			4	22
Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Oct - Jan	GSD 005 - Steps to Career Success 1 (1D-1H)	WA ELA Credit	1	1
Oct - Jan	GES 102: Wellness & Resilience for College & Beyond	WA Elective Credit	1	4
Oct - Jan	ELC 131: Blueprint Reading	WA Elective Credit	1	2
Oct - Jan	ELT 102: Math for Engineering Technology	WA Math Credit	1	4
Oct - Jan	ELT 010: Skills Lab	No credit - Study hall format	0	0
TOTAL in Oct - Jan Quarter			4	11
Jan - Apr	MET 101: Introduction to Manufacturing (2D-2H)	WA Elective Credit	1	3
Jan - Apr	ELT 103: Intro to Electronics	WA Science Credit	1	4
Jan - Apr	GES 151 - Critical Thinking (2D-2H)	WA Social Studies Credit	1	4
Jan - Apr	MET 111: Intro to Parametric Modeling (2D-2H)	WA Elective Credit	1	3
Jan - Apr	ELT 010: Skills Lab	No credit - Study hall format	0	0
TOTAL in Jan - Apr Quarter			4	14
Apr - July	ELT 248: Robotics	WA Elective Credit	1	4
Apr - July	GEE 316: Technical Report Writing	WA Elective Credit	1	4
Apr - July	GSD 180 - Career Development	WA Elective Credit	1	2
Apr - July	GEM 201: Trigonometry	WA Math Credit	1	4
Apr - July	ELT 010: Skills Lab	No credit - Study hall format	0	0
TOTAL in Apr - July Quarter			4	14
TOTAL in Senior Year			12	39
Recom. Timeframe	First year after graduation		Credits	
	MET 221: Mechanical Application Software 2		3	
	IST 421: Project Management		4	
	ITA 297: Network Operating Systems 3		5	
	ELT 010: Skills Lab		0	
Credits			12	
July - Oct	ELC 161: Motor Controls		5	
July - Oct	ELT 276: Physics for Engineering Technology		4	
July - Oct	IST 376: Intro to Robotics and AI Programming		4	
Credits			13	
Oct - Jan	GES 252: Leadership Principles		4	
Oct - Jan	GSI 192: Internship		8	
Credits			12	
Total for first year after graduation			25	



TRADES PROGRAM: ELECTRICIAN TECHNOLOGY CERTIFICATE - 2 + 0.25

Students will begin the program Junior year and finish in October after graduation.

PTC Orientation with families will occur before students begin the program.

Tuition for WA students while in high school for PTC courses will be \$100/credit.

Recom. Timeframe	Junior Year (Classes @ PTC 11:30 - 2:30)		WA Credits	PTC Credits
Oct - Jan	ELC 101 - Math for Electricians (2 D-2H)	WA Math Credit	1	4
Oct - Jan	ELC 111 - Electricity 1 (2D-3H)	WA Science Credit	1	5
Oct - Jan	ELC 131 - Blueprint Reading (1D-2H)	WA Elective Credit	1	2
Oct - Jan	GSD 005 - Steps to Career Success 1 (1H-1D)	WA ELA Credit	1	1
Jan - Apr	ELC 121 - Residential Wiring (3D-3/3/2)	WA Elective Credit	1	5
Jan - Apr	ELC 141 - Electricity 2 (2D-3H)	WA Science Credit	1	4
TOTAL in Junior Year			6	21
Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Oct - Jan	ELC 151 - Commercial Wiring	WA Elective Credit	1	5
Oct - Jan	ELC 161 - Motor Controls (PTC checking on articulation CCAC - MEC 156: Motors & Motor Control)	WA Elective Credit	1	5
Oct - Jan	ELC 191 - Computers & Networking	WA Math Credit	1	3
Oct - Jan	GSD 180 - Career Development	WA English Credit	1	2
TOTAL in Oct - Jan Quarter			4	15
Jan - Apr	ELC 181 - Electricity 3	WA Science Credit	1	6
Jan - Apr	ELC 171 - Industrial Wiring	WA Elective Credit	1	5
Jan - Apr	ELC 231 - Project Management & Estimating	WA Math Credit	1	4
TOTAL in Jan - Apr Quarter			3	15
Apr - July	ELC 201 - Electricity 4	WA Science Credit	1	4
Apr - July	ELC 211 - Programmable Controllers (PTC checking on articulation CCAC - MEC 108: Program Logic Controllers)	WA Elective Credit	1	4
Apr - July	ELC 221 - Troubleshooting Electrical Systems	WA Elective Credit	1	3
TOTAL in Apr - July Quarter			3	11
TOTAL in Senior Year			#REF!	41
Recom. Timeframe	First year after graduation		Credits	
July - Oct	GSI 199 - Internship		12	
Credits			12	
Total for first year after graduation			12	



TRADES PROGRAM: ELECTRICIAN TECHNOLOGY CERTIFICATE - 1 + 0.5

Students will begin the program Senior year and finish in January after graduation.

PTC Orientation with families will occur before students begin the program.

Tuition for WA students while in high school for PTC courses will be \$100/credit.

Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Oct - Jan	ELC 101 - Math for Electricians	WA Math Credit	1	4
Oct - Jan	ELC 111- Electricity 1	WA Science Credit	1	5
Oct - Jan	ELC 121 - Residential Wiring	WA Elective Credit	1	5
Oct - Jan	ELC 131 - Blueprint Reading	WA Elective Credit	1	2
Oct - Jan	GSD 005 - Steps to Career Success 1	WA ELA Credit	1	1
TOTAL in Oct - Jan Quarter			5	17
Jan - Apr	ELC 141 - Electricity 2	WA Science Credit	1	4
Jan - Apr	ELC 151 - Commercial Wiring	WA Elective Credit	1	5
Jan - Apr	ELC 161 - Motor Controls (PTC checking on articulation CCAC - MEC 156: Motors & Motor Control)	WA Elective Credit	1	5
Jan - Apr	GSD 180 - Career Development	WA English Credit	1	2
TOTAL in Jan - Apr Quarter			4	16
Apr - July	ELC 171 - Industrial Wiring	WA Elective Credit	1	5
Apr - July	ELC 181 - Electricity 3	WA Science Credit	1	6
Apr - July	ELC 191 - Computers & Networking	WA Math Credit	1	3
TOTAL in Apr - July Quarter			7	14
TOTAL in Senior Year			16	47
Recom. Timeframe	First year after graduation		Credits	
July - Oct	ELC 201 - Electricity 4		4	
July - Oct	ELC 211 - Programmable Controllers (PTC checking on articulation CCAC - MEC 108: Program		4	
July - Oct	ELC 221 - Troubleshooting Electrical Systems		3	
July - Oct	ELC 231 - Project Management & Estimating		4	
Credits			15	
Oct - Jan	GSI 199 - Internship		12	
Credits			12	
Total for first year after graduation			27	



AVIATION PROGRAM: AEROSPACE MANAGEMENT ASSOCIATE DEGREE

Students will begin the program Junior year and finish additional courses after graduation.
Cost for WA students while in high school is \$255 per credit (2022-23 school year).
Length of program will vary based on students flight hours.

WA Concurrent Enrollment courses to be take @ WAHS					
Recom. Timeframe	CCBC Course Requirement	WA Course (College course to be transferred to CCBC)	Counts as	WA Credits	College Credits
Sophomore Year	Social Science Elective	0232 AP US Government & Politics (WA CCAC ECIHSA - POL 103)	WA Social Studies Credit	1	3
Sophomore Year	CIST 1000: Intro to Information Technology	0627 Intro to Cybersecurity (WA RMU ECIHSA - CYBS 2000: Intro to Cybersecurity & CYBS 2010: Computing Principles & Practice)	WA Elective Credit	1	6
Junior Year	BUSM 112: Principles of Management	0603 Management (WA RMU ECIHSA - MGMT 2000: Management Theory & Practice and MGMT 2025: Cloud Computing for Business)	WA Elective Credit	1	4
Junior Year	BUSM 245: Principles of Marketing	0602 Marketing (WA RMU ECIHSA - MARK 2000: Marketing in the Interconnected World)	WA Elective Credit	1	3
Junior Year	ACCT 110: Financial Accounting	0616 Financial Accounting (WA RMU ECIHSA - ACCT 2030)	WA Math Credit	1	3
Senior Year	BUSM 255: Macroeconomics	0242 AP Economics (WA RMU ECIHSA - ECON 1010)	WA Social Studies Credit	1	3
Senior Year	ACCT 111: Managerial Accounting	0613 Managerial Accounting (WA RMU ECIHSA - ACCT 2060)	WA Math Credit	1	3
Senior Year	Literature Elective	0132 AP English Literature & Composition (WA CCAC ECIHSA - ENG 115) [OR 0133 Classic & Modern Literature (WA RMU ECIHSA - ELIT 1050) - \$250]	WA English Credit	1	3
Senior Year	Humanities Elective	0151 Oral Communications (WA CCAC ECIHSA - SPH 101)	WA English Credit	1	3
Total WAHS Concurrent Enrollment Classes through CCAC or RMU				9	31
Junior Year Aviation Courses (Chippewa Campus or Online)					
Recom. Timeframe	CCBC Course Requirement	WA Course (College course to be transferred to CCBC)	Counts as	WA Credits	College Credits
Fall	AVIP 100: Titian Transition		WA Elective Credit	1	1
Fall	AVIP 120: Foundations & Development of Aviation		WA Social Studies Credit	1	3
Fall	WRIT 101: English Composition <i>Student may elect to take WAHS-0122 AP English Language & Composition (CCAC ECIHSA - ENG 101 & ENG 102) instead (runs full year)</i>		WA English Credit	1	3
Spring	AVIP 160: Private Pilot Flight Theory		WA Elective Credit	1	7
Total in Junior Year				4	14
Senior Year Aviation Courses (Chippewa Campus or Online)					
Recom. Timeframe	CCBC Course Requirement	WA Course (College course to be transferred to CCBC)	Counts as	WA Credits	College Credits
Fall	MATH 126: Statistics		WA Math Credit	1	4
Fall	AVIP 260: Human Factors Theory		WA Science Credit	1	3
Spring	AVIC 235: Traffic Control Procedures		WA Elective Credit	1	3
Spring	AVIP 205: Aircraft Engines & Systems		WA Elective Credit	1	4
TOTAL in Senior Year				4	14
First year after graduation					
Fall	BUSM 108: Entrepreneurship			3	
Fall	BUSC 210: Organizational Behavior			3	
Total for first year after graduation				6	



AVIATION PROGRAM: AIR TRAFFIC CONTROLLER ASSOCIATE DEGREE

Students will begin the program Junior year and finish additional courses after graduation.
Cost for WA students while in high school is \$255 per credit (2022-23 school year).
Length of program will vary based on students flight hours.

WA Concurrent Enrollment courses to be take @ WAHS					
Recom. Timeframe	CCBC Course Requirement	WA Course (College course to be transferred to CCBC)	Counts as	WA Credits	College Credits
Sophomore Year	CIST 1000: Intro to Information Technology	0627 Intro to Cybersecurity (WA RMU ECIHSA - CYBS 2000: Intro to Cybersecurity & CYBS 2010: Computing Principles & Practice)	WA Elective Credit	1	6
Senior Year	Literature Elective	0132 AP English Literature & Composition (WA CCAC ECIHSA - ENG 115) [OR 0133 Classic & Modern Literature (WA RMU ECIHSA - ELIT 1050) - \$250]	WA English Credit	1	3
Total WAHS Concurrent Enrollment Classes through CCAC or RMU				2	9
Junior Year Aviation Courses (Chippewa Campus or Online)					
Recom. Timeframe	CCBC Course Requirement		Counts as	WA Credits	College Credits
Fall	AVIP 100: Titian Transition		WA Elective Credit	1	1
Fall	AVIP 120: Foundations & Development of Aviation		WA Social Studies Credit	1	3
Fall	WRIT 101: English Composition <i>Student may elect to take WAHS-0122 AP English Language & Composition (CCAC ECIHSA - ENG 101 & ENG 102) instead (runs full year)</i>		WA English Credit	1	3
Spring	AVIP 160: Flight Theory Fundamentals		WA Elective Credit	1	7
Total in Junior Year				4	14
Senior Year Aviation Courses (Chippewa Campus or Online)					
Recom. Timeframe	CCBC Course Requirement	WA Course (College course to be transferred to CCBC)	Counts as	WA Credits	College Credits
Fall	MATH 126: Statistics		WA Math Credit	1	4
Fall	AVIP 260: Human Factors Theory		WA Science Credit	1	3
Spring	AVIC 235: Traffic Control Procedures		WA Elective Credit	1	3
Spring	AVIP 205: Aircraft Engines & Systems		WA Elective Credit	1	4
TOTAL in Senior Year				4	14
Recom. Timeframe	Courses to complete after graduation			Credits	
Fall	AVIC 180: Flight Theory Fundamentals II			7	
Fall	AVIC 200: ATC Flight Fundamentals			1	
Spring	AVIC 239: Facility Rating 1			6	
Spring	AVIC 247: Approach Control 1			4	
Summer	AVIC 238: Facility Rating 2			5	
Summer	AVIC 248: Approach Control 2			4	
Fall	AVIC 252: Non-Radar			4	
Fall	AVIC 251: Non-Radar Lab			5	
Spring	AVIC 258: Radar Lecture			4	
Spring	AVIC 256: Radar Lab			5	
Total credits after graduation				45	



AVIATION PROGRAM: PROFESSIONAL PILOT ASSOCIATE DEGREE

Students will begin the program Junior year and finish additional courses after graduation.
Cost for WA students while in high school is \$255 per credit (2022-23 school year).
Length of program will vary based on students flight hours.

WA Concurrent Enrollment courses to be take @ WAHS

Recom. Timeframe	CCBC Course Requirement	WA Course (College course to be transferred to CCBC)	Counts as	WA Credits	College Credits
Sophomore Year	CIST 1000: Intro to Information Technology	0627 Intro to Cybersecurity (WA RMU ECIHSA - CYBS 2000: Intro to Cybersecurity & CYBS 2010: Computing Principles & Practice)	WA Elective Credit	1	6
Junior Year	PHYS 105: Physical Science	0412 AP Physics 1 (WA CCAC ECIHSA - PHY 141)	WA Science Credit	1	4
Senior Year	Literature Elective	0132 AP English Literature & Composition (WA CCAC ECIHSA - ENG 115) [OR 0133 Classic & Modern Literature (WA RMU ECIHSA - ELIT 1050) - \$250]	WA English Credit	1	3
Total WAHS Concurrent Enrollment Classes through CCAC or RMU				3	13

Junior Year Aviation Courses (Chippewa Campus or Online)

Recom. Timeframe	CCBC Course Requirement	Counts as	WA Credits	College Credits
Fall	AVIP 100: Titian Transition	WA Elective Credit	1	1
Fall	AVIP 120: Foundations & Development of Aviation	WA Social Studies Credit	1	3
Fall	WRIT 101: English Composition <i>Student may elect to take WAHS-0122 AP English Language & Composition (CCAC ECIHSA - ENG 101 & ENG 102) instead (runs full year)</i>	WA English Credit	1	3
Spring	AVIP 160: Private Pilot Flight Theory	WA Elective Credit	1	7
Spring	AVIP 170: Private Pilot Flight Certification	WA Elective Credit	1	3
Total in Junior Year			5	17

Senior Year Aviation Courses (Chippewa Campus or Online)

Recom. Timeframe	CCBC Course Requirement	Counts as	WA Credits	College Credits
Fall	MATH 126: Statistics	WA Math Credit	1	4
Fall	AVIP 260: Human Factors Theory	WA Science Credit	1	3
Spring	AVIC 235: Traffic Control Procedures	WA Elective Credit	1	3
Spring	AVIP 205: Aircraft Engines & Systems	WA Elective Credit	1	4
TOTAL in Senior Year			4	14

Courses to complete after graduation

Timeframe	Courses to complete before graduation	Credits
Summer	AVIC 180: Instrument Flight Theory	7
Summer	AVIC 190: Instrument Flight Rating	2
Fall	AVIP 210: Commercial Flight Theory	6
Fall	AVIP 220: Commercial Flight Certification 1	3
Spring	AVIP 225: Comercial Flight Certification 2	3
Spring	AVIP 270: Aerodynamics of Flight	3
Summer	AVIP 250: Multi-Engine Flight Rating OR AVIP 280: Certified Flight Instructor - Airplane	1 or 2
Summer	AVIP 285: Certified Flight Instructor - Instruments OR AVIP 290: Professional Flight Instructor	2 or 5
Total credits after graduation		27-31



TRADES PROGRAM: AUTOMOTIVE TECHNOLOGY ASSOCIATE DEGREE

Open to students during their senior year with an expected graduation of September following graduation.

It is recommended that students interested in this career field prior to senior year attend Parkway West CTC for Automotive Technology. Students will need to obtain a driver's license prior to being eligible for state inspection & emissions certifications, and program graduation.

While in high school, tuition for WA students will be \$125 per credit.

Recom. Timeframe	Freshman/Sophomore/Junior Year		WA Credits	RTC Credits
Full year @ WA	R-101 Applied Math	WA-Algebra 2 (Math credit)	1	2.5
Full year @ WA	R-103 Physics & Electrical Science	WA-Physics or Conceptual Physics (Science credit)	1	2.5
Full year @ WA	R-206 Small Business Management	WA-RMU Mangement (students do not need to take for RMU credit)	1	5.5
Full year @ WA	R-104 Computer Concepts	WA-Technology Skills	1	2.5
TOTAL in Freshman/Sophomore/Junior Year			4	13
Recom. Timeframe	Senior Year (All classes @ RTC) (Mon-Thur 7:30 - 3:00)		WA Credits	RTC Credits
Oct - Feb	GD-101 Electrical Systems	WA Science Elective	1	4.5
Oct - Feb	GD-102 Electrical Troubleshooting	WA Elective	1	5
Oct - Feb	AD-102 Automotive Brakes	WA Elective	1	5
Oct - Feb	AD-105 Suspension & Steering Systems	WA Elective	1	4.5
Oct - Feb	R-108 Problem Solving & Critical Thinking	WA Math Elective	1	2.5
Feb - May	AD-100 Gasoline Engine Components	WA Elective	1	4.5
Feb - May	AD-103 Gasoline Engines	WA Elective	1	5
Feb - May	AD-204 Power Train Systems	WA Elective	1	4.5
Feb - May	AD-207 Manual & Automatic Transmissions	WA Elective	1	5
Feb - May	R-208 Get Employed / Stay Employed	WA ELA Credit	1	5
TOTAL in Senior Year			10	45.5
Recom. Timeframe	First year after graduation		Credits	
May - Sept	AD-203 Enhanced Emissions Systems		3.5	
May - Sept	AD-206 Air Conditioning Maintenance		6	
May - Sept	AD-205 Automotive Electronic Systems		4.5	
May - Sept	AD-208 Engine Performance		5	
Total for first year after graduation			19	

TRADES PROGRAM: COLLISION REPAIR TECHNOLOGY ASSOCIATE DEGREE

Open to students during their senior year with an expected graduation of September following HS graduation.

It is recommended that students interested in this career field prior to senior year attend Parkway West CTC for Automotive Repair Technology.

Students will need to obtain a driver's license prior to being eligible for state inspection & emissions certifications, and program graduation

While in high school, tuition for WA students will be \$125 per credit.

Recom. Timeframe	Freshman/Sophomore/Junior Year		WA Credits	RTC Credits
Full year @ WA	R-101 Applied Math	WA-Algebra 2 (Math credit)	1	2.5
Full year @ WA	R-103 Physics & Electrical Science	WA-Physics or Conceptual Physics (Science credit)	1	2.5
Full year @ WA	R-206 Small Business Management	WA-RMU Mangement (students do not need to take for RMU credit)	1	5.5
Full year @ WA	R-104 Computer Concepts	WA-Technology Skills	1	2.5
TOTAL in Freshman/Sophomore/Junior Year			4	13
Recom. Timeframe	Senior Year (All classes @ RTC)(Mon-Thur 7:30 - 3:00)		WA Credits	RTC Credits
Oct - Feb	C-220 Intro to Auto Refinishing	WA Elective	1	4
Oct - Feb	C-221 Auto Refinishing	WA Elective	1	4.5
Oct - Feb	C-104 Mechanical Systems	WA Elective	1	4.5
Oct - Feb	C-105 Electrical Systems	WA Science Elective	1	4.5
Oct - Feb	R-108 Problem Solving & Critical Thinking	WA Math Elective	1	2.5
Feb - May	C-100 Intro to Autobody Repair, C-101 Automotive Component Repair	WA Elective	1	4.5
Feb - May	C-102 Foundations of Collision Repair	WA Elective	1	4.5
Feb - May	C-103 Welding Essentials	WA Elective	1	4.5
Feb - May	C-213 Panel Repair & Alignment	WA Elective	1	4.5
Feb - May	R-208 Get Employed / Stay Employed	WA ELA Elective	1	5
TOTAL in Senior Year			10	43
Recom. Timeframe	First year after graduation		Credits	
May - Sept	C-214 Estimating, C-215 Glass Repair		4	
May - Sept	C-110 Intro to Major Collision Repair		4.5	
May - Sept	C-211 Major Collision Repair I		4.5	
May - Sept	C-212 Major Collision Repair II		4.5	

TRADES PROGRAM: DIESEL TECHNOLOGY ASSOCIATE DEGREE

Open to students during their senior year with an expected graduation of November following HS graduation.

It is recommended that students interested in this career field prior to senior year attend Parkway West CTC for Diesel Technology.

Students will need to obtain a driver's license prior to being eligible for state inspection & emissions certifications, and program graduation

While in high school, tuition for WA students will be \$125 per credit.

Recom. Timeframe	Freshman/Sophomore/Junior Year		WA Credits	RTC Credits
Full year @ WA		WA-Algebra 2 (Math credit)	1	2.5
Full year @ WA	R-103 Physics & Electrical Science	WA-Physics or Conceptual Physics (Science credit)	1	2.5
Full year @ WA	R-104 Computer Concepts	WA-Technology Skills	1	2.5
TOTAL in Freshman/Sophomore/Junior Year			3	7.5
Recom. Timeframe	Senior Year (All classes @ RTC)(Mon-Thur 7:30 - 3:00)		WA Credits	RTC Credits
Oct - Feb	GD-101 Electrical Systems	WA Science Elective	1	4.5
Oct - Feb	GD-102 Electrical Troubleshooting	WA Elective	1	5
Oct - Feb	DD-104 Airbrakes & Braking Systems	WA Elective	1	5
Oct - Feb	DD-106 Suspension & Steering Systems	WA Elective	1	4.5
Oct - Feb	R-108 Problem Solving & Critical Thinking	WA Math Elective	1	2.5
Feb - May	DD-206 AC & Transport Refrigeration	WA Elective	1	3.5
Feb - May	DD-201 Diesel Engines	WA Elective	1	5
Feb - May	R-107 Hydraulics Applications	WA Elective	1	4.5
Feb - May	DD-103 Diesel Drive Trains	WA Elective	1	5
Feb - May	R-208 Get Employed / Stay Employed	WA ELA Elective	1	5
TOTAL in Senior Year			10	44.5
Recom. Timeframe	First year after graduation		Credits	
May - Sept	DD-205 Class A-CDL Lecture		5	
May - Sept	DD-208 Class A-CDL Driving		4	
May - Sept	DD-203 Engine Diagnostics		5	
May - Sept	DD-204 Engine Analysis		4.5	
Sept - Nov	DD-101 Preventative Maintenance		4.5	
Total for first year after graduation			23	

COURSE LIST

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**	Course weighted on a 5.0 GPA scale	c	Course may count toward core course credit required for graduation - see the graduation requirements page for more information – shift to ^c
⌘	Course eligible for college credit through our Early College in High School Academy (ECIHSa)		
⌘⌘	Awaiting final approval from our higher education ECIHSa college or university partner	(S)	Semester

AP CAPSTONE PROGRAM

0200	AP Seminar** ^c [10-12]
0201	AP Research** ^c [11-12]

BUSINESS, COMPUTER, AND INFORMATION TECHNOLOGY

0600	Principles of Business ✓ [9-12]
0601	Technology Skills ✓ [9-12]
0611	Yearbook [9-12]
0617	AP Computer Science Principles** ^c [10-12]
V604	Sports & Entertainment Marketing (S1-WAVA ONLY) [10-12]
V605	International Business (S2-WAVA ONLY) [10-12]
V606	Career Discovery (S-WAVA ONLY) [9-12]

EARLY COLLEGE IN HIGH SCHOOL ACADEMY (RMU)

CYBERSECURITY

0627	Intro to Cybersecurity**⌘ (6 credits) ✓ [10-12]
0628	Computer Networking **⌘ (3 credits) ✓ [10-12]
0629	Cybersecurity Risk Management**⌘ (6 credits) ✓ [11-12]

EARLY COLLEGE IN HIGH SCHOOL ACADEMY (CCAC)

MULTIMEDIA GAMES SIMULATION

0621	Introduction to Game Design **⌘ (3 credits) [9-12]
0612	Multimedia Graphics**⌘ (3 credits) [10-12]
0623	3D Modeling & Animation**⌘ (6 credits) [10-12]
0625	2D/3D Game Development** ^c ⌘ (6 credits) [11-12]
0624	Game Production & Marketing** ^c ⌘ (3 credits) [12]
0626	Virtual Reality** ^c ⌘ (6 credits) [12]

EARLY COLLEGE IN HIGH SCHOOL ACADEMY (RMU)

BUSINESS

0602	Marketing **⌘ (3 credits) [10-12]
0603	Management**⌘ (4 credits) ✓ [10-12]
0604	Business, Law, & Society ** ^c ⌘ (3 credits) [10-12]
0616	Financial Accounting** ^c ⌘ (3 credits) ✓ [10-12]
0605	Managerial Accounting ** ^c ⌘ (3 credits) [11-12]

COMPUTER SCIENCE (CCAC)

0618	AP Computer Science A** ^c ⌘ (8 credits) [10-12]
0619	Intro to Data Analytics with Python** ^c ⌘ (7 credits) [10-12]
0620	Programming in C# & C++ ** ^c ⌘ (7 credits) [11-12]

ENGINEERING AND TECHNOLOGY EDUCATION

EARLY COLLEGE IN HIGH SCHOOL ACADEMY (CCAC)

MECHATRONICS

0700	Manufacturing I**⌘ (6 credits) ✓ [9-12]
0701	Home Systems**⌘ (6 credits) [9-12]
0716	Digital Electronics** ^c ⌘ (6 credits) [10-12]
0702	Fluid Systems & Motor Control**⌘ (6 credits) [11-12]
0703	Power Systems **⌘ (6 credits) [11-12]

EARLY COLLEGE IN HIGH SCHOOL ACADEMY (RMU)

ENGINEERING

0714	Introduction to Engineering Design **⌘ (3 credits) [10-12]
0709	CADD II **⌘ (3 credits) [10-12]
0715	Engineering Materials **⌘ (3 credits) [10-12]

EARLY COLLEGE IN HIGH SCHOOL ACADEMY (PTC)

CAD (both programs)

0706	Drawing & Design for Engr & Arch**⌘ (6 credits) [10-12]
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TECHNOLOGY EDUCATION

0704	Principles of Technology [9-12]
0705	Architectural Design [9-12]
0708	CADD I [10-12]
0710	CADD III [11-12]
0712	Manufacturing Technology II [10-12]
0713	Do It Yourself (DIY) [9-12]
0717	Environmental Sustainability ^c [10-12]
0748	Media Arts [9-12]
0699	Technical Theatre: Set Building – 3 day [9-12]
V717	Foundations of Green Energy (WAVA ONLY) ^c [10-12]
V749	Intro to Social Media (S – WAVA ONLY) [9-12]

ENGLISH LANGUAGE ARTS

0101	English 9 [9]
0106	Honors English 9* [9]
0111	English 10 [10]
0112	Honors English 10* [10]
0120	English 11 [11]
0121	College Readiness English 11 [11]
0122	AP English Language & Composition**⌘ (6 credits) [11-12]
0130	English 12 [12]
0131	College Readiness English 12 [12]
0132	AP English Literature & Composition**⌘ (3 credits) [12]
0133	Classic & Modern Literature**⌘ (3 credits) [12]
0134	Film Studies**⌘⌘ (3 credits) [12]
0150	Creative Writing [11-12]
0151	Oral Communications**⌘ (3 credits) [11-12]
V154	Gothic Literature (S1 – WAVA ONLY) [11-12]
V155	Intro to Creative Writing (S – WAVA ONLY) [10-12]
V156	Mythology & Folklore (S2 – WAVA ONLY) [10-12]

FAMILY AND CONSUMER SCIENCES

0720	Exploring Foods [9-12]
0737	West A Café [12]
V733	Navigating Adulthood (S-WAVA ONLY) [10-12]

Additional courses are available through the virtual platform and can be found under the West Allegheny Virtual Academy Course List.

COURSE LIST

*	Course weighted on a 4.5 GPA scale	✓	Course eligible for industry-based credential
**	Course weighted on a 5.0 GPA scale	c	Course may count toward core course credit required for graduation - see the graduation requirements page for more information – shift to ^c
⌘	Course eligible for college credit through our Early College in High School Academy (ECIHSa)		
⌘⌘	Awaiting final approval from our higher education ECIHSa college or university partner	(S)	Semester

FAMILY AND CONSUMER SCIENCES *(Continued)*

EARLY COLLEGE IN HIGH SCHOOL ACADEMY (RMU)

EARLY CHILDHOOD & SPECIAL EDUCATION

0727	Family and Community Relations**⌘ (3 credits) [10-12]
0732	Child Development I**⌘ (6 credits) [10-12]
0733	Child Development II**⌘ (6 credits) [11-12]
0735	Partners in Exploring Foods **⌘ (3 credits) [10-12]
0736	Technology for Aspiring Teachers**⌘(3 credits) [11-12]

MATHEMATICS

0307	Introduction to Algebra [9]
0308	Algebra 1 [9-10]
0310	Geometry [10-12]
0315	Algebra 2 [9-12]
0317	HEC Algebra 2**⌘ (4 credits) [9-12]
0319	Honors Trigonometry & Precalculus* [10-12]
0320	AP Precalculus** [10-12]
0321	Discrete Math [11-12]
0323	AP Calculus AB**⌘ (3 credits) [11-12]
0324	AP Statistics**⌘ (3 credits) [10-12]
0325	AP Calculus BC**⌘ (3 credits) [12]
0242	AP Economics**⌘ (3 credits) [11-12]
0725	Personal Finance**⌘ (3 credits) [11-12]

PERFORMING ARTS

0753	Band [9-12]
0754	Band – 3-day [9-12]
0756	Wind Ensemble [9-12]
0757	Wind Ensemble – 3-day [9-12]
0760	Jazz Studies: Instrumental – 3-day [9-12]
0762	Piano – 3-day [9-12]
0764	Guitar – 3-day [9-12]
0766	Chorus [9-12]
0768	Chorus – 3-day [9-12]
0770	Vocal Studies – 3-day [9-12]
0774	Show Choir [10-12]
0775	Show Choir – 3-day [10-12]
0777	Digital Audio Production 1 [9-12]
0778	Digital Audio Production 1 – 3-day [9-12]
0779	Digital Audio Production 2 [10-12]
0780	Digital Audio Production 2 – 3-day [10-12]
0786	Technical Theatre: Crew – 3-day [9-12]
V790	Music Appreciation (S – WAVA ONLY) [9-12]

PHYSICAL EDUCATION AND HEALTH

0801	Health & Wellness 9 (S) – 3-day [9]
0803	Health & Wellness 10 (S) – 3-day ✓ [10]
0800	Physical Education (S) – 3-day [9-12]
0802	Physical Education – 3-day [9-12]
0804	Physical Education – 6-day [9-12]

0820	Physical Conditioning – 6-day [9-12]
0821	Physical Conditioning – 3-day [9-12]
0792	Dance – 3-day [9-12]
0793	Dance Company – 3-day [9-12]
0831	Exercise Science ^c [11-12]
0832	Aquatics & Lifeguarding – 3-day* ✓ [10-12]

EARLY COLLEGE IN HIGH SCHOOL ACADEMY (RMU)

EARLY CHILDHOOD & SPECIAL EDUCATION

0835	Partners in Physical Education**⌘⌘ (3 credits) [10-12]
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SCIENCE

0402	Biology with Lab [9]
0403	Honors Biology with Lab* [9]
0404	Conceptual Chemistry [10-11]
0405	Honors Chemistry with Lab* [10-11]
0406	Conceptual Physics [11-12]
0407	Physics [11-12]
0408	Forensic Science [11-12]
0409	Honors Anatomy & Physiology* [11-12]
0410	AP Biology**⌘ (8 credits) [10-12]
0411	AP Chemistry**⌘ (8 credits) [11-12]
0412	AP Physics 1**⌘ (4 credits) [10-12]
0413	AP Physics 2**⌘ (3 credits) [11-12]
V425	Health Sciences (WAVA ONLY) [10-12]
V426	Intro to Astronomy (S – WAVA ONLY) [10-12]
V427	Intro to Marine Biology (S – WAVA ONLY) [10-12]
V428	Intro to Veterinary Science (S2 – WAVA ONLY) [10-12]
V429	Forestry & Natural Resources (S1 – WAVA ONLY) [10-12]

SOCIAL STUDIES

0210	U.S. History [9]
0211	Honors U.S. History* [9]
0230	American Government [10]
0231	Honors American Government* [10]
0232	AP U.S. Government & Politics**⌘ (3 credits) [10-12]
0236	World Cultures (with Career Seminar) [11]
0238	AP World History** [11]
V239	AP United States History** (WAVA ONLY) [10-12]
0240	AP Psychology**⌘ (3 credits) [11-12]
0243	Criminal Justice & Investigations**⌘ (6 credits) [10-12]
0244	Honors Psychology & Sociology* [11-12]
0245	Honors African American & Multicultural Studies* [11-12]
0247	Honors Holocaust & Genocide Studies* [11-12]
0249	Current Affairs (S) [11-12]
0250	Sociology of Sports (S) [11-12]
V251	Introduction to Archaeology (S - WAVA ONLY) [11-12]
V252	Introduction to World Religions (S – WAVA ONLY) [11-12]
V253	Women's Studies (S – WAVA ONLY) [11-12]
V254	Introduction to Military Careers (S – WAVA ONLY) [11-12]

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COURSE LIST

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**	Course weighted on a 5.0 GPA scale	c	Course may count toward core course credit required for graduation - see the graduation requirements page for more information – shift to c
⌘	Course eligible for college credit through our Early College in High School Academy (ECHSA)	(S)	Semester
⌘⌘	Awaiting final approval from our higher education ECIHSA college or university partner		

USMC JUNIOR ROTC

0261	USMC Junior ROTC I [9-12]
0262	USMC Junior ROTC II [10-12]
0263	USMC Junior ROTC III [11-12]
0264	USMC Junior ROTC IV c [12]
0265	Foundations of Leadership [11-12]

VISUAL ARTS

0740	Art I [9-12]
0741	Art II [10-12]
0742	Art III [11-12]
0743	Honors Art IV* [12]
0744	AP Drawing** [12]
0745	Ceramics 1 [10-12]
0746	Ceramics 2 [11-12]
V703	Graphic Design and Illustration I (S – WAVA ONLY) [9-12]
V704	Graphic Design and Illustration II (S2 – WAVA ONLY) [9-12]
V745	Art Appreciation (S – WAVA ONLY) [9-12]

WORLD LANGUAGES

0500	Spanish I [9-12]
0501	Spanish II [9-12]
0502	Spanish III c [10-12]
0503	HEC Spanish IV** c ⌘ (6 credits) [11-12]
0504	AP Spanish Language & Culture** c [12]
0520	German I [9-12]
0521	German II [9-12]
0522	German III c [10-12]
0523	HEC German IV** c ⌘⌘ (6 credits) [11-12]
0524	AP German Language & Culture** c [12]
0525	American Sign Language I (S1) [9-12]
0526	American Sign Language II (S2) [9-12]
V510	French I (WAVA ONLY) [9-12]
V511	French II (WAVA ONLY) [9-12]
V512	French III (WAVA ONLY) c [10-12]
V513	French IV* (WAVA ONLY) c [11-12]
V514	AP French Language & Culture** c (WAVA ONLY) [12]
V530	Mandarin Chinese I (WAVA ONLY) [9-12]
V531	Mandarin Chinese II (WAVA ONLY) [10-12]

PARKWAY WEST CAREER AND TECHNOLOGY CENTER

2501	Auto Body Repair ✓ [9-12]
2502	Automotive Technology ✓ [9-12]
2503	Construction Technology Cluster (1 st year) ✓ [9-12]
2504	Carpentry ✓ [10-12]
2505	Electrical Systems Technology ✓ [10-12]
2506	Heating, Ventilation, Air Conditioning & Refrigeration (HVAC/R) ✓ [10-12]
2507	Power Motorsports ✓ [9-12]
2508	Welding Technology ✓ [10-12]
2509	Cosmetology ✓ [9-12]

2510	Culinary Arts ✓ [9-12]
2511	Healthcare Occupations Technology ✓ [9-12]
2512	Diesel Technology ✓ [9-12]
2513	Graphic Arts & Production Technology ✓ [9-12]
2514	Cyber Security & Network Technology ✓ [9-12]
2515	Public Safety Technology ✓ [9-12]
2516	Sports Medicine and Rehabilitation Therapy Technology (SMARTT) ✓ [9-12]
2517	Veterinary Assistant Technology ✓ [9-12]

COLLEGE ENTRANCE EXAM PREPARATION COURSES

V670	ACT English Preparation (S – WAVA ONLY) [10-12]
V671	ACT Mathematics Preparation (S – WAVA ONLY) [10-12]
V672	ACT Reading Preparation (S – WAVA ONLY) [10-12]
V673	ACT Science Preparation (S – WAVA ONLY) [10-12]
V675	SAT Mathematics Preparation (S – WAVA ONLY) [10-12]
V676	SAT Reading Preparation (S – WAVA ONLY) [10-12]

SPECIAL OPTIONS

IS	Independent Study [11-12]
ER	Early Release [12]
WS	Work Study [12]

EARLY COLLEGE IN HIGH SCHOOL ACADEMY DUAL ENROLLMENT PROGRAMS

COMMUNITY COLLEGE OF BEAVER COUNTY AVIATION ACADEMY

DEAM	Aerospace Management Associate Degree [11-12]
DEAT	Air Traffic Control Associate Degree [11-12]
DEPP	Professional Pilot Associate Degree [11-12]

PITTSBURGH TECHNICAL COLLEGE HEALTH SCIENCES ACADEMY

DENA	Nursing Associate Degree [10-12]
DEST	Surgical Technology Associate Degree [10-12]
DEPN	Practical Nursing Certificate [11-12]
DEMT	Therapeutic Massage Practitioner Certificate [12]

PITTSBURGH TECHNICAL COLLEGE SKILLED TRADES ACADEMY

DECA	CAD: Architectural Engineering Tech Assoc Deg [11-12]
DECM	CAD: Mechanical Engineering Tech Assoc Deg [11-12]
DERA	Robotics & Autonomous Engineering Tech Assoc Deg [11-12]
DEEC	Electrician Technology Certificate [11-12]
DEHA	Heating Ventilation & Air Cond Tech Assoc Deg [11-12]
DEHC	Heating Ventilation & Air Cond Tech Certificate [11-12]
DEWA	Welding Technology Assoc Deg [11-12]
DEWC	Welding Technology Certificate [11-12]

ROSEDALE TECHNICAL COLLEGE AUTO/DIESEL ACADEMY

DEAT	Automotive Technology Associate Degree [12]
DECR	Collision Repair Technology Associate Degree [12]
DEDT	Diesel Technology Associate Degree [12]

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WAVA COURSE LIST

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**	Course weighted on a 5.0 GPA scale	C	Course may count toward core course credit required for graduation (see the graduation requirements page for more information)
#	Course <u>does not</u> count towards credit in the Early College in High School Academy (ECIHSA)	(S)	Semester

BUSINESS, COMPUTER, AND INFORMATION TECHNOLOGY

BUSINESS

V600	Principles of Business [9-12]
V602	Marketing, Advertising, and Sales # [10-12]
V603	Business Information Management # [10-12]
V604	Sports & Entertainment Marketing (S1-WAVA ONLY) [10-12]
V605	International Business (S2-WAVA ONLY) [10-12]
V606	Career Discovery (S-WAVA ONLY) [9-12]
V616	Financial Accounting* # ^c [10-12]

COMPUTER SCIENCE

V601	Principles of Information Technology [9-12]
V631	Computer Programming w/JAVA [10-12]

GAMING

V621	Intro to Game Design and Mobile Apps # [^] [9-12]
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ENGINEERING AND TECHNOLOGY EDUCATION

V700	Principles of Manufacturing # [^] [9-12]
V701	Principles of Engineering and Technology # [^] [9-12]
V705	Principles of Architecture and Construction [9-12]
V708	Drafting and Design [10-12]
V717	Foundations of Green Energy (WAVA ONLY) ^c [10-12]
V748	Media Arts [9-12]
V749	Intro to Social Media (S – WAVA ONLY) [9-12]

ENGLISH LANGUAGE ARTS

V101	English 9 [9]
V106	Honors English 9* [9]
V111	English 10 [10]
V112	Honors English 10* [10]
V120	English 11 [11]
V121	College Readiness English 11 [11]
V122	AP English Language & Composition** # [11-12]
V130	English 12 [12]
V131	College Readiness English 12 [12]
V132	AP English Literature & Composition ** # [12]
V154	Gothic Literature (S1 - WAVA ONLY) [11-12]
V155	Intro to Creative Writing # [^] (S -WAVA ONLY) [10-12]
V156	Mythology & Folklore (S2-WAVA ONLY) [10-12]

FAMILY AND CONSUMER SCIENCES

V720	Culinary Arts [9-12]
V732	Early Childhood Education # [^] [10-12]
V733	Navigating Adulthood (S-WAVA ONLY) [10-12]

MATHEMATICS

V307	Introduction to Algebra [9]
V308	Algebra 1 [9-10]
V310	Geometry [10-12]
V315	Algebra 2 [9-12]
V317	Honors Algebra 2* # [9-12]
V319	Honors Trigonometry & Precalculus* [10-12]
V321	Discrete Math [11-12]
V323	AP Calculus AB*** [11-12]
V242	AP Economics*** [11-12]
V725	Personal and Family Finance # [11-12]

PERFORMING ARTS

V778	Audio and Video Production I [9-12]
V779	Audio and Video Production II [10-12]
V790	Music Appreciation (S – WAVA ONLY) [9-12]

PHYSICAL EDUCATION AND HEALTH

V800	Physical Education 0.25 (S) [9-12]
V801	Health & Wellness 9 (S) [9]
V802	Physical Education 0.5 [9-12]
V803	Health & Wellness 10 (S) [10]
V804	Physical Education 1.0 [9-12]
V820	Physical Conditioning 1.0 [9-12]
V821	Physical Conditioning 0.5 [9-12]
V831	Exercise Science ^c [11-12]

SCIENCE

V402	Biology with Lab [9]
V403	Honors Biology with Lab* [9]
V404	Conceptual Chemistry [10-11]
V405	Honors Chemistry* [10-11]
V406	Conceptual Physics [11-12]
V407	Physics [11-12]
V408	Forensic Science [11-12]
V409	Honors Anatomy & Physiology* [11-12]
V410	AP Biology*** [10-12]
V411	AP Chemistry*** [11-12]
V425	Health Sciences (WAVA ONLY) [10-12]
V426	Intro to Astronomy (S – WAVA ONLY) [10-12]
V427	Intro to Marine Biology (S – WAVA ONLY) [10-12]
V428	Intro to Veterinary Science (S2 – WAVA ONLY) [10-12]
V429	Forestry and Natural Resources (S1-WAVA ONLY) [10-12]

WAVA COURSE LIST

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**	Course weighted on a 5.0 GPA scale	C	Course may count toward core course credit required for graduation (see the graduation requirements page for more information)
#	Course <u>does not</u> count towards credit in the Early College in High School Academy (ECIHSa)	(S)	Semester

SOCIAL STUDIES

V210	U.S. History [9]
V211	Honors U.S. History* [9]
V230	American Government [10-11]
V231	Honors American Government* [10-12]
V232	AP U.S. Government & Politics** # [10-12]
V236	World Cultures [11]
V238	AP World History** [11]
V239	AP United States History** (WAVA ONLY) [10-12]
V240	AP Psychology** # [11-12]
V243	Criminology and Law # [10-12]
V244	Honors Psychology & Sociology* [11-12]
V245	Honors African American Studies* [11-12]
V247	Honors Holocaust Studies* [11-12]
V249	Current Affairs (S) [11-12]
V251	Introduction to Archaeology (S-WAVA ONLY) [11-12]
V252	Introduction to World Religions (S – WAVA ONLY) [11-12]
V253	Women's Studies (S – WAVA ONLY) [11-12]
V254	Introduction to Military Careers (S – WAVA ONLY) [10-12]

SPECIAL OPTIONS

College Entrance Exam Preparation Courses	
V670	ACT English Preparation (S – WAVA ONLY) [9-12]
V671	ACT Math Preparation (S – WAVA ONLY) [9-12]
V672	ACT Reading Preparation (S – WAVA ONLY) [9-12]
V673	ACT Science Preparation (S – WAVA ONLY) [9-12]
V675	SAT Math Preparation (S – WAVA ONLY) [9-12]
V676	SAT Reading Preparation (S – WAVA ONLY) [9-12]

VISUAL ARTS

V703	Graphic Design and Illustration I (S -WAVA ONLY) [9-12]
V704	Graphic Design and Illustration II (S2 – WAVA ONLY) [9-12]
V740	Studio Art I [9-12]
V741	Studio Art II [10-12]
V742	Studio Art III [11-12]
V745	Art Appreciation (S – WAVA ONLY) [9-12]

WORLD LANGUAGES

V500	Spanish I [9-12]
V501	Spanish II [9-12]
V502	Spanish III ^C [10-12]
V503	Spanish IV* # ^C [11-12]
V504	AP Spanish Language & Culture** ^C [12]
V510	French I (WAVA ONLY) [9-12]
V511	French II (WAVA ONLY) [9-12]
V512	French III (WAVA ONLY) ^C [10-12]
V513	French IV* (WAVA ONLY) ^C [11-12]
V514	AP French Language & Culture** (WAVA ONLY) ^C [12]
V520	German I [9-12]
V521	German II [9-12]
V522	German III ^C [10-12]
V525	American Sign Language I (S1) [9-12]
V526	American Sign Language II (S2) [9-12]
V530	Mandarin Chinese I (WAVA ONLY) [9-12]
V531	Mandarin Chinese II (WAVA ONLY) [10-12]

AP CAPSTONE

AP SEMINAR 0200 1 CREDIT

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. In addition, students practice listening to and viewing speeches, broadcasts, and personal accounts. They also experience 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.**

AP RESEARCH 0201 1 CREDIT

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

Students build on 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.

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 task are teacher-scored. There is no end-of-course exam for AP Research. Both the academic paper and presentation with oral defense 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: AP Seminar

Grade level: 11, 12

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

BUSINESS, COMPUTER, AND INFORMATION TECHNOLOGY

PRINCIPLES OF BUSINESS

0600 1 CREDIT

✓ *Students will have the opportunity to earn an industry recognized credential while in this course.*

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 economics, management, marketing, accounting, business organization, entrepreneurship, and financial planning. 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. Students who wish to pursue classes in our ECIHSA Business Academy are encouraged to begin with this course. Especially if you wish to take our Financial Accounting course. This course will serve as an Introduction to our Financial Accounting class and students will also learn how to use Microsoft Excel.

This course is highly recommended before taking any higher-level business course.

Grade level: 9, 10, 11, 12

TECHNOLOGY SKILLS

0601 1 CREDIT

✓ *Students will have the opportunity to earn an industry recognized credential while in this course.*

This comprehensive technology course provides students with an introductory overview of IT concepts including hardware, software, internet technologies, networking, cybersecurity, databases, ethics with an emphasis on applications of IT in business, and IT careers and skills. This course will continue with the integration of Adobe Creative Cloud, with different applications such as Photoshop, Illustrator, InDesign, and Dreamweaver.

This course is highly recommended before taking any of the cybersecurity courses.

Grade level: 9, 10, 11, 12

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

AP COMPUTER SCIENCE PRINCIPLES

0617 1 CREDIT

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, 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).

BUSINESS, COMPUTER, AND INFORMATION TECHNOLOGY

AP COMPUTER SCIENCE PRINCIPLES

(Continued)

- Encourages a broader participation in the study of computer science and other STEM fields, including AP Computer Science A.
- AP assessment experience:
 - One performance task to demonstrate the skills they have developed (administered by the teacher; students submit digitally).
 - Multiple-choice questions (written exam).

Prerequisite: Algebra 1

Grade level: 10, 11, 12

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

SPORTS & ENTERTAINMENT MKT

(S1 - WAVA ONLY)

V604 .50 CREDIT

This one-semester course is intended to help students gain an insight into the field of sports, entertainment, and recreation marketing. In this course, students will trace the development of these industries, dissect their dual nature, and discover what it takes to pitch, promote, and deliver on these services. Students will also explore the necessary steps to chart their own career path from among the professional roles that these industries need to operate.

Grade level: 10, 11, 12

INTERNATIONAL BUSINESS

(S2 - WAVA ONLY)

V605 .50 CREDIT

This course is designed to help students develop the appreciation, knowledge, skills, and abilities needed to live and work in a global marketplace. It takes a global view on business, investigating why and how companies go international and are more interconnected. The course further provides students a conceptual tool by which to understand how economic, social, cultural, political and legal factors influence both domestic and cross-border business. Business structures, global entrepreneurship, business management, marketing, and the challenges of managing international organizations will all be explored in this course. Students will cultivate a mindfulness of how history, geography, language, cultural studies, research skills, and continuing education are important in both business activities and the 21st century.

Grade level: 10, 11, 12

CAREER DISCOVERY

(S - WAVA ONLY)

V606 .50 CREDIT

This one-semester course is intended as a practical, hands-on guide to career exploration and planning. This course covers all of the career clusters in the National Career Clusters Framework. Students will explore the career pathways within each cluster, determine the academic and skill requirements for different career pathways, and learn about the jobs available in each pathway and the work these professionals do. This course will also guide students through the process of creating an academic and career plan based on their interests, abilities, and life goals.

Grade level: 9, 10, 11, 12

BUSINESS, COMPUTER, AND INFORMATION TECHNOLOGY

ECIHS - RMU - CYBERSECURITY

INTRO TO CYBERSECURITY

0627 1 CREDIT

6 RMU CREDITS POSSIBLE THROUGH ECIHS

CYBS 2000 – INTRO TO CYBERSECURITY (3 CR)
CYBS 2010 – COMPUTING PRINC/PRACTICES (3 CR)

✓ *Students will have the opportunity to earn an industry recognized credential (TestOut PC Pro certification) while in this course.*

This course provides an introductory study of cybersecurity. Students will learn terminology, principles, and technologies related to cybersecurity and its implementation in various industries. The course covers the fundamental concepts of confidentiality, integrity, and availability, and applies these to present day computing situations, including legal issues, security planning, and security awareness. Students will also be trained to pass the TestOut PC Pro certification exam by learning how to install, maintain, customize, and operate a personal computer system through lessons in computer hardware/software, operating systems, storage/file management, networking, mobile devices, printing, system implementation and management. Additional preparation for the CompTIA A+ (Core 1 and Core 2) certification exams will be available if they wish to pursue. ***Students may earn a weighted grade on the 5.0 scale for this course.***

Recommended: Technology Skills

Grade level: 10, 11, 12

COMPUTER NETWORKING

0628 1 CREDIT

3 RMU CREDITS POSSIBLE THROUGH ECIHS

INFS 3230 – COMPUTER NETWORKING (3 CR)

✓ *Students will have the opportunity to earn an industry recognized credential (TestOut Network Pro certification) while in this course.*

This course introduces students to computer networking fundamentals. Students will gain the knowledge and skills they need to install, configure, and maintain a network for a small business. Students will be trained to pass the TestOut Network Pro certification. Additional preparation for the CompTIA Network+ certification exam will be available if they wish to pursue. ***Students may earn a weighted grade on the 5.0 scale for this course.***

Co/Prerequisite: Intro to Cybersecurity

Grade level: 10, 11, 12

CYBERSECURITY RISK MANAGEMENT

0629 1 CREDIT

6 RMU CREDITS POSSIBLE THROUGH ECIHS

INFS 3235 – NETWORK SECURITY (3CR)
CYBS 4300 – CYBERSECURITY RISK MGMT (3 CR)

✓ *Students will have the opportunity to earn an industry recognized credential (TestOut Security Pro certification) while in this course.*

This course addresses how risk management is the core of cybersecurity planning in an organization. Students will gain an understanding of informational assets, risk management and how risk, threats, and vulnerabilities impact information systems. This course will also meet the needs of students who want to master practical network and computer security. All students will be prepared to pass the TestOut Security Pro certification and additional preparation for the CompTIA Security+ certification exam will be available if they wish to pursue. ***Students may earn a weighted grade on the 5.0 scale for this course.***

Prerequisites: Intro to Cybersecurity

Co/Prerequisite: Computer Networking

Grade level: 11, 12

ECIHS-CCAC – MULTIMEDIA GAMES AND SIMULATION

INTRODUCTION TO GAME DESIGN

0621 1 CREDIT

3 CCAC CREDITS POSSIBLE THROUGH ECIHS

MMC 160 – GAME DESIGN & SIM 1 (3 CR)
(Student must earn a qualifying score on CCAC's aligned placement test to be eligible to earn CCAC credit)

"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. ***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

MULTIMEDIA GRAPHICS

0612 1 CREDIT

3 CCAC CREDITS POSSIBLE THROUGH ECIHSA

MMC 113 – MULTIMEDIA GRAPHICS (3 CR)

This course introduces students to the design and development of two-dimensional (2D) and three-dimensional (3D) game graphic assets. Focuses include aesthetics and color for video game assets. These practices are explored in both 2D and 3D asset design. Students work with industry standard software packages to create graphical assets to be presented in a portfolio. *Students may earn a weighted grade on the 5.0 scale for this course.*

Grade level: 10, 11, 12

3D MODELING & ANIMATION

0623 1 CREDIT

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 and animation techniques used in movies, visual effects, video games, cartoons, commercials, and animation! Using Maya, you will work in this highly skill-based art form to manipulate and sculpt pure imagination into substantial forms. 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

2D/3D GAME DEVELOPMENT

0625 1 CREDIT

6 CCAC CREDITS POSSIBLE THROUGH ECIHSA

MMC 165 – 2D GAME DESIGN & CREATION (3 CR)

MMC 250 – GAME ENVRNTS & INTERACTIVITY (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: AP Computer Science Principles or AP Computer Science A

Grade level: 11, 12

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

GAME PRODUCTION AND MARKETING

0624 1 CREDIT

3 CCAC CREDITS POSSIBLE THROUGH ECIHSA

MMC 280 – MULTIMEDIA CAPSTONE (3 CR)

This course provides students with the experience of industry standard project design and development. Students work in teams to develop a video game from pre-production through the post-production phases for their portfolios. During the course, industry software and practices are reviewed and implemented into the overall experience. At the end of the course, students pitch their product to professionals in the industry. *Students may earn a weighted grade on the 5.0 scale for this course.*

Prerequisite: ALL MMC and CIT Program Requirements

Grade level: 12

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

VIRTUAL REALITY

0626 1 CREDIT

6 CCAC CREDITS POSSIBLE THROUGH ECIHSA

MMC 170 – VIRTUAL DESIGN & SIM REALITIES (3 CR)

ART 144 – DIGITAL PHOTOGRAPHY (3 CR)
(Asynchronous through CCAC)

This course will teach the utilization of software to apply basic animation motion for game creation and simulation. Students begin practicing with current virtual realities and elements to create interactive simulated environments using current game engine technologies. During this course, students will practice with hardware and software needed to implement immersive media experiences. Students will also create simulations for gaming, training, and environmental experiences to examine the many uses of these emerging media forms. *Students may earn a weighted grade on the 5.0 scale for this course.*

Prerequisite: Intro to Game Design, 2D/3D Game Development

Grade level: 12

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

BUSINESS, COMPUTER, AND INFORMATION TECHNOLOGY

ECIHS - RMU - BUSINESS ACADEMY

MARKETING

0602 1 CREDIT

3 RMU CREDITS POSSIBLE THROUGH ECIHS

MARK 2000 –MARKETING INTERCONN WORLD (3 CR)

This course is an introductory study of the marketing discipline as applied to an ever-changing global commerce landscape. The marketing environment, both domestic and international, are examined along with the variables that act upon them. The primary focus is on the marketing mix, promotional mix, and the characteristics and relevant strategies that are relevant to each stage of the product-life cycle. Current issues and concepts such as international marketing, market-place diversity, added-value, customer service, and the role of total quality management are an integral part of course content and interactive learning activities. ***Students may earn a weighted grade on the 5.0 scale for this course.***

Grade level: 10, 11, 12

MANAGEMENT

0603 1 CREDIT

4 RMU CREDITS POSSIBLE THROUGH ECIHS

MGMT 2000—MANAGEMENT THEORY/PRACT (3 CR)
MGMT 2025—CLOUD COMPUTING BUSINESS (1 CR)

This introductory management course is designed to give students an understanding of how to lead in today's business environment and in any aspect of their lives. Students will learn management theories and breakdown the four management functions: planning, organizing, leading, and controlling. They will also learn about the importance and the process of decision making. Students will explore business management career paths throughout this course as well. ***Students may earn a weighted grade on the 5.0 scale for this course.***

Grade level: 10, 11, 12

✓ *Students will have the opportunity to earn an industry recognized credential while in this course.*

BUSINESS, LAW, AND SOCIETY

0604 1 CREDIT

3 RMU CREDITS POSSIBLE THROUGH ECIHS

BLAW 2000 – LAW, BUSINESS, AND SOCIETY (3 CR)

This course introduces students to the legal system and the role it plays in the business world, specifically, and society in general. It emphasizes the complexity and interrelationship of legal, social, and ethical issues. Students acquire knowledge and understanding of legal implications of business transactions. Specific areas studied include, the role of government, business ethics, the American legal system, contracts, business torts, debtor-creditor- relationships, government regulations of business, business structure, consumer protection and legal and ethical issues related to the internet. ***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.**

FINANCIAL ACCOUNTING

0616 1 CREDIT

3 RMU CREDITS POSSIBLE THROUGH ECIHS

ACCT 2030 –INTRO FINANCIAL ACCOUNTING (3 CR)

This course is designed to introduce students to accounting terms and principles. Students will also learn how to prepare and use financial statements. The focus of this course will be on accounting data generated for external users of financial information. The accounting environment is examined along with the basic concepts which govern the recording and reporting of economic events in the accounting records. Study of debits and credits, accrual accounting, and the accounting cycle establishes the framework for an understanding of the transformation of accounting data into financial statement format. ***Students may earn a weighted grade on the 5.0 scale for this course.***

Highly Recommended: Principles of Business

Grade level: 10, 11, 12

✓ *Students will have the opportunity to earn an industry recognized credential while in this course.*

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

BUSINESS, COMPUTER, AND INFORMATION TECHNOLOGY

MANAGERIAL ACCOUNTING

0605 1 CREDIT

3 RMU CREDITS POSSIBLE THROUGH ECIHSA

ACCT 2060 –MANAGRIAL ACCOUNTING (3 CR)

✓ *Students will have the opportunity to earn an industry recognized credential while in this course.*

This course deals with techniques of interpreting accounting data for decision making. Topics emphasized are the analysis and interpretation of reports; the establishment of operating financial standards; the measurement of managerial performance; the use of budgets in managerial control; the use of cost data and interpretation of cost reports; and the use of quantitative data in the formulation of managerial policies. ***Students may earn a weighted grade on the 5.0 scale for this course.***

Prerequisite: Financial Accounting

Grade level: 11, 12

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

COMPUTER SCIENCE

AP COMPUTER SCIENCE A

0618 1 CREDIT

8 CCAC CREDITS POSSIBLE THROUGH ECIHSA

CIT 130 – OBJ ORIEN PROG 1: JAVA (4 CR)
CIT 111 – INTRO TO PROG: 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. This 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: Completion of or concurrent enrollment in Algebra 2 or HEC Algebra 2

Grade level: 10, 11, 12

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

INTRO TO DATA ANALYTICS WITH PYTHON

0619 1 CREDIT

7 CCAC CREDITS POSSIBLE THROUGH ECIHSA

DAT 102 – INTRO TO DATA ANALYTICS (3 CR)
DAT 119 – PYTHON 1 (4 CR)

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.***

Prerequisite: Completion of or concurrent enrollment in Algebra II or HEC Algebra II

Grade level: 10, 11, 12

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

BUSINESS, COMPUTER, AND INFORMATION TECHNOLOGY

PROGRAMMING IN C# & C++

0620 1 CREDIT

7 CCAC CREDITS POSSIBLE THROUGH ECIHSA

CIT 165 – PROGRAMMING IN C# (3 CR)

CIT245 –PROGRAMMING 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

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

ENGINEERING AND TECHNOLOGY EDUCATION

ECIHSa – CCAC – MECHATRONICS TECHNOLOGY ACADEMY

MANUFACTURING I

0700 1 CREDIT

6 CCAC CREDITS POSSIBLE THROUGH ECIHSA

MEC 107 – MANUFACTURING TECH: MATH, TECH & REASONING (3 CR)

MEC 109 – MANUFACTURING TECH: PROCESSES, CONTROLS & QUALITY(3 CR)

✓ *Students will have the opportunity to earn an industry recognized credential while in this course.*

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 while covering the production planning, inventory management, and the operating and troubleshooting of industrial equipment. 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 that elect to take this course for college credit will sit for the industry credential exam to earn the achievement of the Certified Production Technician (CPT) credential. Fees for test materials and certification are covered by the district. ***Students may earn a weighted grade on the 5.0 scale for this course.***

Grade level: 9, 10, 11, 12

HOME SYSTEMS

0701 1 CREDIT

6 CCAC CREDITS POSSIBLE THROUGH ECIHSA

EET 103 – INTRO TO ELECTRONICS (3 CR)

EGR 181 – INTRO TO MECHANICAL SYSTEMS (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, and 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. ***Students may earn a weighted grade on the 5.0 scale for this course.***

Grade level: 9, 10, 11, 12

DIGITAL ELECTRONICS

0716 1 CREDIT

6 CCAC CREDITS POSSIBLE THROUGH ECIHSA

MEC 106 – INDUSTRIAL POWER SYSTEMS (3 CR)

EET 208 – 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.***

Prerequisites: Home Systems, concurrently enrolled in Algebra II or higher math course

Grade level: 10, 11, 12

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

ENGINEERING AND TECHNOLOGY EDUCATION

FLUID SYSTEMS & MOTOR CONTROL

0702 1 CREDIT

6 CCAC CREDITS POSSIBLE THROUGH ECIHSA

MEC 156 – MOTORS AND MOTOR CONTROL (3 CR)

EGR 170 – FLUID POWER SYSTEMS (3 CR)

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

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

Prerequisite: Home Systems

Grade level: 11, 12

POWER SYSTEMS

0703 1 CREDIT

6 CCAC CREDITS POSSIBLE THROUGH ECIHSA

MEC 108 – PROG. LOGIC CONTROLLERS (3 CR)

MEC 112 – INTRO TO ROBOTICS (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 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.

Prerequisite: Home Systems

Grade level: 11, 12

ECIHSA – RMU – ENGINEERING ACADEMY

INTRO TO ENGINEERING DESIGN

0714 1 CREDIT

3 RMU CREDITS POSSIBLE THROUGH ECIHSA

ENGR 1010—INTRO TO ENGINEERING (3 CR)

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.*

Grade level: 10, 11, 12

CADD II

0709 1 CREDIT

3 RMU CREDITS POSSIBLE THROUGH ECIHSA

ENGR 2160—ENGINEERING GRAPHICS (3 CR)

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

Prerequisite: “C” or higher in CADD I or Intro to Engineering Design

Grade level: 10, 11, 12

ENGINEERING AND TECHNOLOGY EDUCATION

ENGINEERING MATERIALS

0715 1 CREDIT

3 RMU CREDITS POSSIBLE THROUGH ECIHSA

ENGR 2180—ENGINEERING MATERIALS (3 CR)

The course content includes an examination of engineering materials such as metals, plastics, and composites with an emphasis on material selection. Processing for the optimization of material properties is covered extensively, as is material cost estimation for manufacturing. *Students may earn a weighted grade on the 5.0 scale for this course.*

Pre/Corequisite: Intro to Engineering Design and Manufacturing Technology II

Grade: 10, 11, 12

ECIHSA – PTC

CAD (BOTH PROGRAMS)

DRAWING AND DESIGN FOR ENGINEERING AND ARCHITECTURE

0706 1 CREDIT

6 PTC CREDITS POSSIBLE THROUGH ECIHSA

CAD 104—ENGINEERING GRAPHICS (3 CR)

CAD 114—AUTOCAD (3 CR)

This activity-based course focuses on the basic technical drawing techniques that are commonly used in the engineering and construction field. This course focuses on the style, structure, and design of houses throughout history to the present day. Students will acquire skills in two- and three- dimensional drawings and design products with traditional drawing and CAD (Computer Aided Drawing) being emphasized. This course will also study home building design, structure, and materials to solve problems associated with designing and building a house.

Grade level: 10, 11, 12

TECHNOLOGY EDUCATION

PRINCIPLES OF TECHNOLOGY

0704 1 CREDIT

This course provides students an opportunity to develop skills and understanding through activity-, project-, and problem-based learning to prepare them for engineering courses of study. Students will employ engineering and scientific concepts in the solution of engineering design problems. Students will develop problem solving skills and apply the concepts of research and design to create solutions to various challenges. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community.

Grade: 9, 10, 11, 12

ARCHITECTURAL DESIGN

0705 1 CREDIT

In this course the students will explore design aspects of residential and commercial construction. This will be achieved through blueprint reading, floor layout, ergonomics, 3D modeling, and physical mock-ups.

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 industries of architecture, art, and engineering. Students will concentrate on three-dimensional objects and drawings for each industry.

Prerequisite: "C" or higher in Drawing & Design for Engineering & Architecture

Grade level: 10, 11, 12

ENGINEERING AND TECHNOLOGY EDUCATION

CADD III 0710 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: "C" or higher in CADD II

Grade level: 11, 12

MANUFACTURING TECHNOLOGY II 0712 1 CREDIT

This course is an activity-based course that focuses on the manufacturing industry. The students will design and manufacture a product via mass production. Introducing other materials into self-designed projects, not just wood based. Laser engraving on abstract shapes, and the blending of finishing techniques.

Prerequisite: "C" or higher in Manufacturing Technology I or concurrent enrollment in Intro to Engineering Design

Grade level: 10, 11, 12

DO IT YOURSELF (DIY) 0713 1 CREDIT

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

ENVIRONMENTAL SUSTAINABILITY 0717 1 CREDIT

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.**

Prerequisites: "C" or higher in Honors Biology AND Introduction to Engineering, concurrently enrolled in Algebra II or higher math course

Grade level: 10, 11, 12

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

MEDIA ARTS 0748 1 CREDIT

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.

ENGINEERING AND TECHNOLOGY EDUCATION

MEDIA ARTS *(continued)*

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

TECHNICAL THEATRE: SET BUILDING **0699 .50 CREDIT**

Students will learn and hone their skills in set design and building. Class will take place in the scene shop where students will learn how to safely use and identify equipment. Emphasis on basics of building/structure used for theater productions. Class work will be hands on and project driven.

Grading will be based on in class participation and productions/performance outside the class including building sets for the Fall and Spring productions. This class can be taken in conjunction with Technical Theatre A for a full credit.

Grade level: 9, 10, 11, 12

FOUNDATIONS OF GREEN ENERGY **(WAVA ONLY)** **V717 1 CREDIT**

This course is for high school students who want to understand the rapidly growing and evolving energy field, with special emphasis on electrical energy and on new and emerging energy technologies. The course is designed to address state standards in the Energy and STEM domains as well as the Energy Industry Fundamentals Certificate Program (EIFCP) standards developed by the Center for Energy Workforce Development (CEWD). Unit topics include the energy industry; energy science and efficiency; electrical generation, transmission, and distribution; conventional, alternative, and emerging energy sources; health, safety, and security issues; and energy careers and pathways, from entry level to professional.

Prerequisites: Completion of Introduction to Engineering, concurrently enrolled in Algebra II or higher math course

Grade level: 10, 11, 12

INTRODUCTION TO SOCIAL MEDIA **(S - WAVA ONLY)** **V749 .50 CREDIT**

This semester course will help students understand the world of social media and how individuals, social groups, and businesses are using different types of social media. Students will discuss various types of social media and technologies. This course will also explore how technological advances (specifically in mobile devices) and the legal environment impact social media and how businesses use social media in their marketing activities.

Grade level: 9, 10, 11, 12

WEST ALLEGHENY HIGH SCHOOL ENGLISH SEQUENCE

9TH GRADE	ENGLISH 9 HONORS ENGLISH 9^{PR}
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10TH GRADE	ENGLISH 10 HONORS ENGLISH 10^{PR}
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11TH GRADE	ENGLISH 11 COLLEGE READINESS ENGLISH 11 AP ENGLISH LANGUAGE & COMPOSITION^{PR} <hr/> Students may elect to take more than one ELA course to fulfill the 4 th ELA core course requirement. Options in this case are: AP RESEARCH^{PR} ORAL COMMUNICATION^{PR} CREATIVE WRITING
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12TH GRADE	AP ENGLISH LANGUAGE & COMPOSITION^{PR} AP ENGLISH LITERATURE & COMPOSITION^{PR} AP RESEARCH^{PR} CLASSIC & MODERN LITERATURE COLLEGE READINESS ENGLISH 12 ENGLISH 12 ORAL COMMUNICATION^{PR} CREATIVE WRITING FILM STUDIES
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^{PR} - Check prerequisites in course descriptions

Students enrolling in an ECIHSA programs should refer to the corresponding program flyer for course sequence.

ENGLISH LANGUAGE ARTS

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. This 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. English 9 provides the foundation of literacy skills needed to be successful in all courses where reading, writing, and analysis may apply.

HONORS ENGLISH 9

0106 1 CREDIT

Honors English 9 establishes the foundation for the AP English program. 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 synthesize their ideas by using evidence from primary and secondary sources. Students will have the opportunity to work and present individually or within a group. ***Students may earn a weighted grade on the 4.5 scale for this course.***

Prerequisites: "B" in 8th grade English, teacher recommendation

ENGLISH 10

0111 1 CREDIT

To prepare students for post-secondary endeavors, students will develop the basic skills of writing a multi-paragraph essay and 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.

HONORS ENGLISH 10

0112 1 CREDIT

Honors English 10 continues building a foundation for the AP English program. Students will develop the basic skills of writing a multi-paragraph essay and 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: "B" in English 9 or Honors English 9, teacher recommendation

ENGLISH LANGUAGE ARTS

ENGLISH 11

0120 1 CREDIT

English 11 will help prepare students for post-secondary endeavors. Students will continue to further develop their analysis and writing skills in a course designed to prepare students to meet the rigors of the workforce, military or college. English 11 will emphasize close and critical readings of texts as well as other supplemental materials. Students will take part in rigorous studies with culminating projects. Students enrolled in this course will enhance their critical writing and thinking skills through various writing assignments and works of literature. Writing assignments will cover a variety of academic writing that will focus on research, analysis and critical thinking. Students will be given opportunities to work collaboratively with their peers, practice presentation skills, and participate actively in peer-driven discussions.

COLLEGE READINESS ENGLISH 11

0121 1 CREDIT

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 course will enhance their critical writing and thinking skills through various writing assignments and works of literature. Writing assignments will cover a 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.

AP ENGLISH LANGUAGE AND COMPOSITION

0122 1 CREDIT

6 CCAC CREDITS POSSIBLE THROUGH ECIHSA

ENG 101 – ENGLISH COMP 1 (3 CR)
ENG 102 – ENGLISH COMP 2 (3 CR)
(Student must earn a qualifying score on CCAC's aligned placement test to be eligible to earn CCAC credit)

AP English Language and Composition course cultivates the reading and writing skills that students need for collegiate success and for intellectually responsible civil engagement. This course guides students in becoming curious, critical, and responsive 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 this course will deepen and expand their understanding of how written language functions *rhetorically* to communicate writers' intentions and elicit readers' response in particular situations. This 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.) Students will encounter and evaluate pieces of literature with 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" in English 10 or "A" or "B" in Honors English 10 or College English 11, teacher recommendation

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.

ENGLISH LANGUAGE ARTS

ENGLISH 12

0130 1 CREDIT

English 12 is a course designed to prepare students for the rigors and demands of the workforce, military or college. Materials for study will be drawn from novels, non-fiction texts, work manuals, newspapers, and more. Writing objectives will include practice and exposure to technical writing, letters, 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. Course Objectives will include a variety of “real-world” exposure to necessary career skills such as: professionalism, group dynamics and teamwork, presentation skills, and networking, understanding technical writing and reading for work. Students will also refine their competency in the organization and writing of technical descriptions, processing instructions, articles, reports, and proposals.

COLLEGE READINESS ENGLISH 12

0131 1 CREDIT

College Readiness English 12 will build on the critical and analytical skills established in 11th 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 tasks. Students enrolled in this course will be advocates for their learning and workload to prepare them for the self-discipline and awareness necessary in college. Writing assignments will cover a 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.

AP ENGLISH LITERATURE AND COMPOSITION

0132 1 CREDIT

3 CCAC CREDITS POSSIBLE THROUGH ECIHSA

ENG 115 – GENERAL LITERATURE

(Student must earn CCAC credit for AP English Language– ENG 101– or earn a 3 or higher on the AP Exam to be eligible for CCAC credit for this course.)

This course focuses on strengthening advanced skills in reading and writing, with a primary focus on the 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 have the opportunity to work and present individually or within a group. 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: “B” in College Readiness English 11 or 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.

ENGLISH LANGUAGE ARTS

CLASSIC & MODERN LITERATURE

0133 1 CREDIT

**3 RMU CREDITS POSSIBLE THROUGH
ECIHPA**

ELIT 1050 – CLASSIC & MODERN LIT (3 CR)

This course focuses on the social processes and literary qualities that affect how particular works come to be considered “classics” and how these texts inspire modern works. It teaches students about the process of careful reading, analysis, and interpretation of literature and invites students to make connections between literature and their experiences. Students learn to distinguish between reading for comprehension and reading for pleasure, to recognize key principles of storytelling, and to distinguish types of literary works.

***Prerequisite:** Teacher recommendation*

***Grade level:** 12*

FILM STUDIES

0134 1 CREDIT

**3 RMU CREDITS POSSIBLE THROUGH
ECIHPA**

HUMA 1010 – ART & MUSIC (3 CR)

This course is designed for students to develop a greater comprehension of the historical evolution of cinematic art through the medium of film and other mediums of mass culture. Though the course focuses primarily on cinema in the United States, some important and representative films from other countries will be studied. In addition, emphasis will be given to films that represent the development of film as an industry and how this corresponds to (and conflicts with) artistic endeavor. Students will view a variety of films arranged in chronological order focusing on important eras in world history. The class will discuss and write about these films as primary documents within a historical context and as manifestations of popular culture. Students will analyze both films they watch for the course and films they choose to watch on their own. In keeping with the goals of the course, these analyses will require the students to fit the films into the context of cinema as a greater whole and to demonstrate an understanding of film as both art and industry.

***Grade level:** 12*

CREATIVE WRITING

0150 1 CREDIT

Literature is an important form of art that allows us to give voice to our emotions, create imaginary worlds, express ideas, and escape the confines of reality. Explore the writing process and find inspiration to build a story of your own and learn literary techniques to create hybrid forms of poetry and prose. Let’s turn your creative thoughts and ideas into pieces of creative writing.

***Prerequisite:** Teacher recommendation*

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

ORAL COMMUNICATIONS & INTERPRETATION

0151 1 CREDIT

**3 CCAC CREDITS POSSIBLE THROUGH
ECIHPA**

SPH 101 – ORAL COMMUNICATIONS – 3 CR
(Student must earn a qualifying score on CCAC’s
aligned placement test or have completed AP
English Language for CCAC credit to be eligible to
earn CCAC credit.)

This course has been designed to give students an opportunity to develop personal 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. The final focus will be on oral communications within a “real world” application. In all strands, the students will be encouraged to sharpen their organizational and delivery skills. Critical listening skills will be developed as students analyze one another’s oral presentations.

***Prerequisite:** Teacher recommendation*

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

ENGLISH LANGUAGE ARTS

GOTHIC LITERATURE
(S1 - WAVA ONLY)
V154 .50 CREDIT

In Gothic Literature, students will learn about how some of the world's greatest authors from the 19th century through today used Gothic elements to tackle issues that needed serious attention: the class system, gender norms, racism, social injustice, and more!

***Prerequisite:** Teacher recommendation*

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

INTRO TO CREATIVE WRITING
(S - WAVA ONLY)
V155 .50 CREDIT

In this course, students will learn about the scope of creative writing and its genres. Students will identify the key elements of prose and poetry and look at writing for stage, film, and TV. Students will learn about theatrical and film techniques, as well as technical effects that are typically used in electronic media. Finally, students will look at writing for younger audiences, for advertising, and journalism and learn how the publishing industry works.

***Prerequisite:** Teacher recommendation*

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

MYTHOLOGY & FOLKLORE
(S2 - WAVA ONLY)
V156 .50 CREDIT

Since the beginning of time, people have gathered around fires to tell stories of angry gods, harrowing journeys, cunning animals, horrible beasts, and the mighty heroes who vanquished them. Mythology and folklore have provided a way for these colorful stories to spring to life for thousands of years and helped humans make sense of the world. Students will identify the main characters of various dynastic dramas, love myths, and epic legends and describe their journeys. Students will trace the evolution of these compelling tales and how they continue to shape society even today.

***Prerequisite:** Teacher recommendation*

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

FAMILY AND CONSUMER SCIENCES

EXPLORING FOODS

0720 1 CREDIT

This course is designed to broaden the student's knowledge of healthy food selection, storage, and preparation. Management techniques, cooking skills, and an appreciation of food preparation and services are learned. Students will take 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

WEST A CAFÉ

0737 1 CREDIT

This class is designed to assist students within the WA Café and create partnerships between students in regular education and the Life Skills Program. Students are joined together to help each other reach goals in transitioning beyond high school. Students' responsibilities will include assisting students at the different stations in the café (cooking station, bagel station, coffee station, and delivery station).

NOTE: Interested students must apply and successfully complete an interview with Mr. Castelluci. Applications can be found in Mr. Castelluci's room (C116), or the guidance office.

Prerequisite: Successful candidate in application/interview process

Grade level: 12

NAVIGATING ADULthood

(S – WAVA ONLY)

V733 .50 CREDIT

In this course, students will learn more about themselves and prepare for the future through goal setting, decision making, surviving college and career, and how to become a valuable contributing member of society. Topics will include self-advocacy, communication, dealing with stress, interpersonal and personal relationships, money & financial resources, and self-care.

Grade level: 10, 11, 12

ECIHSa-RMU – EARLY CHILDHOOD EDUCATION

FAMILY AND COMMUNITY RELATIONS

0727 1 CREDIT

3 RMU CREDITS POSSIBLE THROUGH ECIHSA

ECED 3060 – FAMILY/COMMUNITY
RELATIONSHIPS (3 CR)

Family & Community Relations has been developed for high school students interested in human behavior and career opportunities available in early childhood/elementary education, pediatrics, and childcare services. The curriculum will provide opportunities for students to develop a sense of professionalism in school and community settings, while examining the shifting demographic context of schools and communities in the United States. The course will focus on the interaction of families, schools, and communities, and how that interaction can influence a child's health and success. Further, taking into account economic and cultural diversity as well as exceptionality, this course focuses on promoting learning and resolving issues throughout the early childhood and elementary years. *Students may earn a weighted grade on the 5.0 scale for this course.*

Grade level: 10, 11, 12

FAMILY AND CONSUMER SCIENCES

CHILD DEVELOPMENT I

0732 1 CREDIT

6 RMU CREDITS POSSIBLE THROUGH ECIHSA

PSYC 3535 – CHILD DEVELOPMENT (3 CR)
ECED 3100 – INTEG ARTS & DEV CHILD (3 CR)

*College courses affiliated pending final RMU curriculum release.

Child Development I has been developed for high school students interested in human behavior and career opportunities available in early childhood/elementary education, pediatrics, and childcare services. Students will examine the role of a teacher through knowledge of children in the areas of physical, cognitive, social, emotional, and moral development. Activities in the course will focus on health, nutrition, movement skills, and strategies for confident participation in physical activity for early childhood educators. Current research and ideas in early childhood development will be used in conjunction with historical approaches that examine growth and development. In addition, the course will help prepare the aspiring teacher with the appreciation and the ability to utilize creative expression in the early childhood settings and classes. November through April, students will assume the role of early childhood educator to plan and implement developmentally appropriate activities and interact effectively with children in our preschool lab. ***Students may earn a weighted grade on the 5.0 scale for this course.***

Grade level: 10, 11, 12

CHILD DEVELOPMENT II

0733 1 CREDIT

6 RMU CREDITS POSSIBLE THROUGH ECIHSA

ENGL 1070 – CHILDREN'S LITERATURE (3 CR)
ECED 2100 – INTRO EARLY CHILDHOOD ED (3CR)

*College courses affiliated pending final RMU curriculum release.

Child Development II has been developed as an extension of Child Development I for high school students interested in human behavior and career opportunities available in early childhood/elementary education, pediatrics, and childcare services. This course will give the aspiring teacher the opportunity to gain insight into the relationship between child development, learning, and teaching. In addition, this course will help students understand the importance of children's literature. Students will learn how to evaluate and integrate children's literature into everyday lessons as a way to motivate children to read. November through April, students will assume the role of early childhood educator to plan and implement developmentally appropriate activities and interact effectively with children in our preschool lab. ***Students may earn a weighted grade on the 5.0 scale for this course.***

Prerequisite: "C" or higher in Child Development I

Grade level: 11, 12

PARTNERS IN EDUCATION - EXPLORING FOODS

0735 1 CREDIT

3 RMU CREDITS POSSIBLE THROUGH ECIHSA

SPED 3010 – INTRO SPECIAL EDUCATION (3 CR)

This course will create partnerships between students in regular education and the Life Skills Program. Students are joined together to help each other reach the goals of a regular Food Preparation class. Through varied lab experiences, all students will learn about basic food preparation techniques, science, personal hygiene, personal wellness, and grocery shopping. The approach of this class is simplified to enhance individual learning. All students will benefit by learning to develop positive relationships between students with and without disabilities. Regular education students will gain experience working with students with disabilities. All students will learn important social and life skills needed to develop healthy relationships with people of all ability levels. ***Students may earn a weighted grade on the 5.0 scale for this course.***

NOTE: Interested students must apply and successfully complete an interview with Partners in Education teachers. Applications can be found in Mrs. Persing's room (B114), Mr. Castelluci's room (C116), or the guidance office.

Prerequisite: Exploring Foods and successful candidate in application/interview process

Grade level: 10, 11, 12

FAMILY AND CONSUMER SCIENCES

TECHNOLOGY FOR ASPIRING TEACHERS

0736 1 CREDIT

3 RMU CREDITS POSSIBLE THROUGH ECIHSA

EDUC 2200 – TECH FOR TEACHERS (3 CR)

This course will create partnerships between students in regular education and the Life Skills Program. Students are joined together to help each other reach the goals in their academic classes. The students will design Canvas pages and assist the students in the Life Skills program with accessing and completing the lessons. All students will benefit by learning to develop positive relationships between students with and without disabilities. All students will learn important social and life skills needed to develop healthy relationships with people of all ability levels. ***Students may earn a weighted grade on the 5.0 scale for this course.***

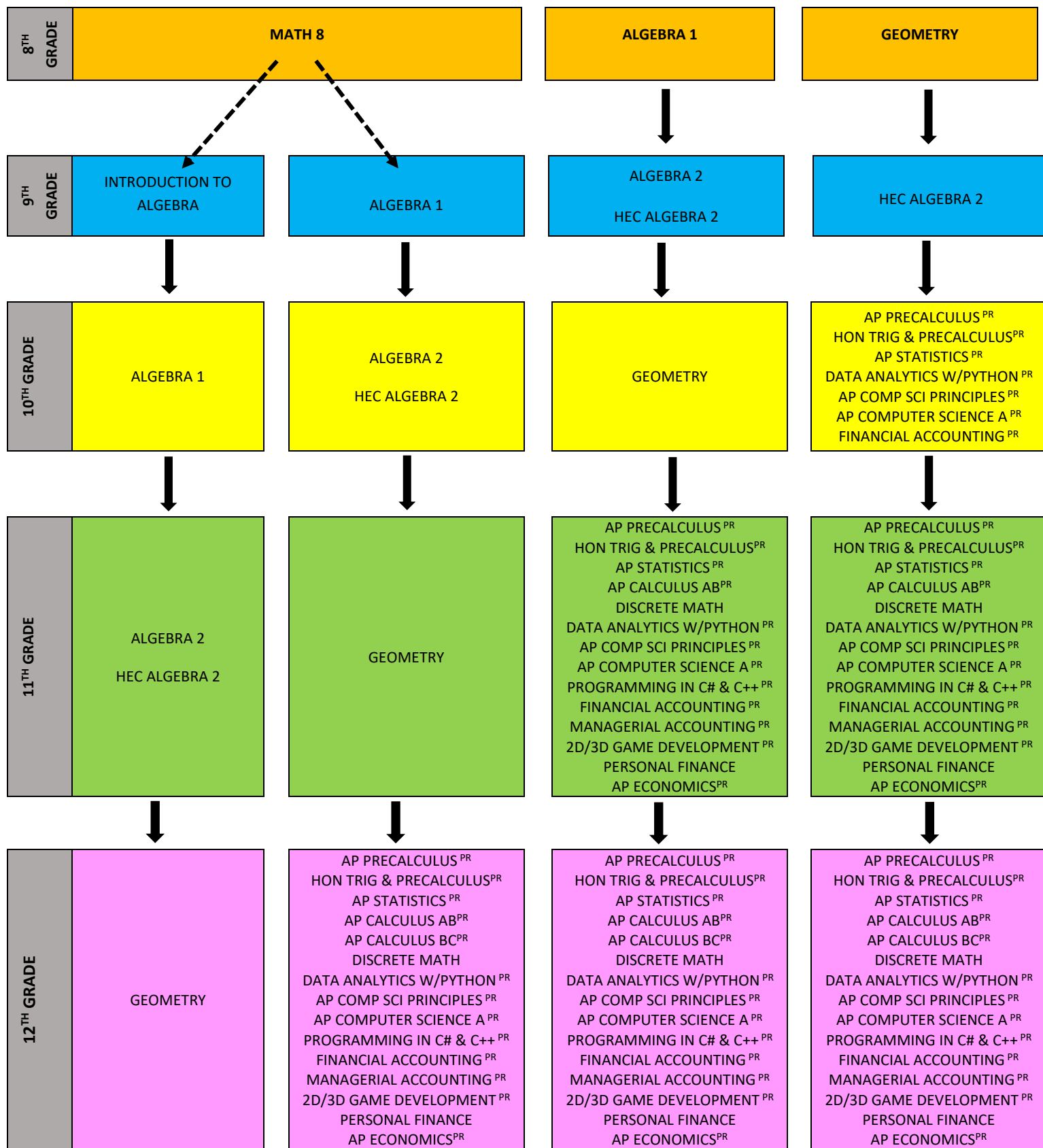
NOTE: Interested students must apply and successfully complete an interview with Mr. Castelluci. Applications can be found in Mr. Castelluci's room (C116), or the guidance office.

Prerequisite: Successful candidate in application/interview process

Grade level: 11, 12

WEST ALLEGHENY HIGH SCHOOL

MATH SEQUENCE



*Students are encouraged to move diagonally across the pathways

^{PR} - Check prerequisites in course descriptions

Students enrolling in an ECIHSA-PTC Health Science Academy or CCBC Aviation Academy should refer to the corresponding program flyer for course sequence.

MATH

INTRODUCTION TO ALGEBRA

0307 1 CREDIT

Introduction to Algebra builds a solid foundation of basic algebraic skills and concepts, while developing critical thinking skills. Topics include basic pre-algebra, operations and real numbers, linear equations/inequalities, and equation solving and polynomials functions.

Grade level: 9

ALGEBRA 1

0308 1 CREDIT

Algebra 1 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.

Prerequisite: Solid background in computations and teacher recommendation

Grade level: 9, 10

ALGEBRA 2

0315 1 CREDIT

Algebra 2 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: Algebra 1

Grade level: 9, 10, 11, 12

HONORS EARLY COLLEGE

ALGEBRA 2

0317 1 CREDIT

4 CCAC CREDITS POSSIBLE THROUGH ECIHSA

MAT 108 – INTERMEDIATE ALGEBRA (4 CR)

(Student must earn a qualifying score on CCAC's aligned placement test to be eligible to earn CCAC credit)

Honors Early College Algebra 2 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 5.0 scale for this course.***

Prerequisite: "B" or higher in Geometry and/or Algebra 1 and teacher recommendation

Grade level: 9, 10, 11, 12

GEOMETRY

0310 1 CREDIT

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: Algebra 1 and Algebra 2

Grade level: 10, 11, 12

MATH

HONORS TRIGONOMETRY & PRECALCULUS 0319 1 CREDIT

Trigonometry provides a strong foundation of trigonometric 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. **Students may earn a weighted grade on the 4.5 scale for this course.**

Prerequisites: Algebra 2, Honors Algebra 2, teacher recommendation

Grade level: 10, 11, 12

AP PRECALCULUS 0320 1 CREDIT

In AP Precalculus, students study a broad spectrum of function types that are foundational for careers in mathematics, physics, biology, health science, social science, and data science. During this course, students acquire and apply mathematical tools in real-world modeling situations in preparation for using these tools in college-level calculus. Throughout this course, students develop and hone symbolic manipulation skills needed for future mathematics courses. There are four main units that will be studied in this course: Polynomial and Rational Functions, Exponential and Logarithmic Functions, Trigonometric and Polar Functions, and Functions Involving Parameters, Vectors, and Matrices. **Students may earn a weighted grade on the 5.0 scale for this course.**

Prerequisites: "B" or higher in Honors Algebra 2, teacher recommendation

Grade level: 10, 11, 12

DISCRETE MATH 0321 1 CREDIT

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: Algebra 1, Algebra 2, Geometry, teacher recommendation

Grade level: 11, 12

AP CALCULUS AB 0323 1 CREDIT 3 RMU CREDITS POSSIBLE THROUGH ECIHS

MATH 2070 – CALCULUS WITH ANALYTICAL
GEOMETRY I (3 CR)

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

MATH

AP STATISTICS

0324 1 CREDIT

**3 RMU CREDITS POSSIBLE THROUGH
ECIHS**

STAT 2110 – STATISTICS (3 CR)

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 2, teacher recommendation

Grade level: 10, 11, 12

AP CALCULUS BC

0325 1 CREDIT

**3 RMU CREDITS POSSIBLE THROUGH
ECIHS**

MATH 2170 – CALCULUS WITH ANALYTICAL
GEOMETRY II (3 CR)

AP Calculus BC is a continuation and extension of the eight units covered per the College Board Course & Exam Description for the AP Calculus AB course, with an additional two units; Parametric Equations, Polar Coordinates, and Vector Functions, Infinite Series and Convergence. ***Students may earn a weighted grade on the 5.0 scale for this course.***

Prerequisites: “C” or higher in AP Calculus AB

Grade level: 12

AP ECONOMICS

0242 1 CREDIT

**3 RMU CREDITS POSSIBLE THROUGH
ECIHS**

ECON 1010 – SURVEY OF ECONOMICS (3 CR)

This course will prepare students for the Advanced Placement Exam in Macroeconomics in May, as well as to provide the opportunity to earn RMU college credits.

The following big ideas are developed through the course:

- **Economic Measurements** - Students will learn how to measure economic growth through a number of different benchmarks. These include *GDP, CPI and the GDP Deflator, as well as the unemployment rate.*
- **Markets** - Students will be introduced to *supply and demand* using a *market trading game* in Unit 1, and by using a game designed to teach the *circular flow model* in Unit 2.
- **Macroeconomic Models** - The idea of a macroeconomic model of the economy is introduced using the basic production possibilities curve in Unit 1. Students will build on their understanding by creating more complex models such as the *Aggregate Demand—Aggregate Supply model* in Unit 3. Finally, the *Phillips Curve model* is discussed in Unit 5.
- **Macroeconomic Policies** - Students will learn about macroeconomics policy options (*fiscal and monetary policies*) and their implementation in Units 3-5 through a number of activities. These include:
 - Government spending/taxing necessary to alleviate an output gap using the appropriate multiplier in Unit 3.
 - Appropriate monetary policy based on current economic conditions in Unit 4.
 - Students review different policy options and decide on the long-term consequences for each in Unit 5.

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

Prerequisites: Teacher recommendation

Grade level: 11, 12

MATH

PERSONAL FINANCE

0725 1 CREDIT

4 PTC CREDITS POSSIBLE THROUGH ECIHSA

GEM 204 – PERSONAL FINANCE (4 CR)

In this course, students will focus on understanding payroll deductions and the US tax code, including an activity based on filing Federal Income Tax. This course also addresses checking and savings products, focusing on the importance of why and how to save money. Students will learn how to budget their money and be introduced to investment strategies to prepare for retirement. Exploration of various credit accounts and how students can responsibly manage these accounts will be prepare students for the future. Students will finish the course by exploring post-secondary education, associated costs, and student loans. *Students may earn a weighted grade on the 5.0 scale for this course.*

Grade level: 11, 12

PERFORMING ARTS

Performing Arts classes are recommended to be taken on a 6-day rotation.

The 3-day (.50 credit) rotation options are only recommended for students with a full schedule conflict.

BAND

0753 6 DAY 1 CREDIT

0754 3 DAY .50 CREDIT

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, and enrichment activities.

Grade level: 9, 10, 11, 12

WIND ENSEMBLE

0756 6 DAY 1 CREDIT

0757 3 DAY .50 CREDIT

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. This class is a select ensemble for instrumental musicians who want to study more advanced band repertoire in a variety of styles. This ensemble demands a greater degree of performance area requirements. 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, and enrichment activities.

Note: Placement in Wind Ensemble is by audition and director permission ONLY

Grade level: 9, 10, 11, 12

JAZZ STUDIES: INSTRUMENTAL

0760 3 DAY .50 CREDIT

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

Grade level: 9, 10, 11, 12

PIANO CLASS

0762 3 DAY .50 CREDIT

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 both online and traditional method books with focus on music reading, theory and piano technique. This class is open to piano players of all ability as students will progress individually. 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

PERFORMING ARTS

Performing Arts classes are recommended to be taken on a 6-day rotation.

The 3-day (.50 credit) rotation options are only recommended for students with a full schedule conflict.

GUITAR CLASS

0764 3 DAY .50 CREDIT

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

CHORUS

0766 6 DAY 1 CREDIT

0768 3 DAY .50 CREDIT

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

VOCAL STUDIES

0770 3 DAY .50 CREDIT

Students will develop their vocal skills through a variety of musical styles. Vocal techniques will be explored (breathing, vocal placement, etc.) with emphasis on performing repertoire in solo, duets and small chamber groups. Students will be expected to perform in class recitals.

Prerequisite: *Current participation in a choral ensemble*

Grade level: 9, 10, 11, 12

SHOW CHOIR

0774 6 DAY 1 CREDIT

0775 3 DAY .50 CREDIT

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: 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.

Notes:

- Placement in Show Choir is by audition and director permission ONLY.
- Auditions will be held in the spring of the prior school year.
- Students in the 3-day ensemble must continue to be a member of Chorus.

Grade level: 10, 11, 12

PERFORMING ARTS

Performing Arts classes are recommended to be taken on a 6-day rotation.

The 3-day (.50 credit) rotation options are only recommended for students with a full schedule conflict.

DIGITAL AUDIO PRODUCTION I

0777 6 DAY 1 CREDIT

0778 3 DAY .50 CREDIT

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

DIGITAL AUDIO PRODUCTION II

0779 6 DAY 1 CREDIT

0780 3 DAY .50 CREDIT

This course will continue skills and concepts learned in Digital Audio Production I. Students will continue to study editing and recording techniques in Logic, 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 Ableton Live and Finale, creating projects and learning sequencing/editing techniques. This course is open to students who have completed Digital Audio Production I or equivalent.

Prerequisite: "C" or higher in Digital Audio Production I or teacher permission

Grade level: 10, 11, 12

TECHNICAL THEATRE: CREW

0786 3 DAY .50 CREDIT

Students will learn and hone their skills as a crew member. The class will focus on the basics of sound, lighting, rigging, costume design, and other aspects of theater production. Students will learn how to program basic sound and lightning cues using QLab, properly run spotlights, and set up simple stage configurations

Technical Theatre is a project-based class and students will be utilized in the operation and handling of these systems for assemblies, concerts, and other events held in the auditorium. Grading will be based on in class participation and productions/performance outside the class. This class can be taken in conjunction with Technical Theater B for a full credit.

Grade level: 9, 10, 11, 12

MUSIC APPRECIATION

(S - WAVA ONLY)

V790 .50 CREDIT

Music is part of everyday lives and reflects the spirit of our human condition. To know and understand music, we distinguish and identify cultures on local and global levels. This course will provide students with an aesthetic and historical perspective of music, covering a variety of styles and developments from the Middle Ages through the Twentieth First Century. Students will acquire basic knowledge and listening skills, making future music experiences more informed and satisfying.

Grade level: 9, 10, 11, 12

PHYSICAL EDUCATION AND HEALTH

HEALTH AND WELLNESS 9

0801 .25 CREDIT (S)

Health and Wellness 9 is a semester course that 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. 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. Components of this 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 meets three days per rotation for one semester and is required for all freshmen.

Grade level: 9

HEALTH AND WELLNESS 10

0803 .25 CREDIT (S)

✓ *Students will have the opportunity to earn an industry recognized credential while in this course.*

Health and Wellness 10 is a semester course that is *required* of all tenth-grade students. It is designed to provide students with a basic framework of knowledge necessary to develop positive attitudes and practices. 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. 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 meets three days per rotation for one semester and is required for all sophomores.

Grade level: 10

PHYSICAL EDUCATION

0804 6 DAY 1 CREDIT

0802 3 DAY .50 CREDIT

0800 3 DAY .25 CREDIT (S)

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.

Students will be given the opportunity to select their daily physical education activities in regards to personal preference and availability on a daily basis. Physical Education activities will be offered to meet the needs of the highly competitive student that enjoys high energy and high intensity games and activities. Students that select this option should be able to work well as part of a team in a highly competitive setting.

Additional options will be available for the student that plans to engage in a moderate level of physical activity and enjoys games and activities in a less competitive environment, as well as options that offer low impact and low intensity exercises. These activities are offered for the purpose of improving aerobic fitness and cardiovascular endurance; these activities include walking and other cardio based options.

Grade level: 9, 10, 11, 12

PHYSICAL EDUCATION AND HEALTH

PHYSICAL CONDITIONING

0820 6 DAY 1 CREDIT

0821 3 DAY .50 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 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

DANCE

0792 3 DAY .50 CREDIT

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 techniques. 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

DANCE COMPANY

0793 3 DAY .50 CREDIT

Dance Company is a class reserved for students who have previous dance experience. Students will be selected for this course after completing an audition during the previous school year. Dance company students will perfect their dance technique with additional time spent on leaps and turns. Throughout the course, students will develop technical proficiency and focus on the detail of movement necessary for performance. Additionally, the Company students will focus on choreographing their own pieces for the showcase and other performance opportunities. Performances will be required for a grade.

Attire: Specific dance clothing and shoes are required.

Prerequisite: Audition Only

Grade level: 9, 10, 11, 12

PHYSICAL EDUCATION AND HEALTH

EXERCISE SCIENCE

0831 1 CREDIT

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.

AQUATICS & LIFEGUARDING

0832 .50 CREDIT

✓ Students will have the opportunity to earn an industry recognized credential while in this course.

"Aquatics and Lifeguarding" is an elective course offered by the Health and Physical Education Department at West Allegheny High School for students who want to *pursue a job as a lifeguard*. It is a class that will frequently be in the swimming pool and requires active participation within its students. "Aquatics and Lifeguarding" focuses on stroke development and follows the American Red Cross requirements for Lifeguarding Certification. This course will be taken 3 days per rotation.

Games and activities played include: Stroke Development, Muscular Strength / Endurance Training, Pool Games, American Red Cross book work, tests, and certification completion.

Students who complete the course will receive a First Aid / CPR / AED 2-Year Certificate and a Lifeguarding Certificate. **Students may earn a weighted grade on the 4.5 scale for this course.**

Grade level: 10, 11, 12

ECIHS – RMU – EARLY CHILDHOOD & SPECIAL EDUCATION

PARTNERS IN PHYSICAL EDUCATION

0835 1 CREDIT

3 RMU CREDITS POSSIBLE THROUGH ECIHSA

EDUC 2100 – EDUCATIONAL PSYCHOLOGY & CLASSROOM MGMT (3 CR)

Partners in PE is designed to create an inclusive environment for all participating members. Typical peers take on the role of leaders, role models, and facilitators to encourage and motivate atypical peers through the use of fitness. The three main objectives of this program are to promote social, motor, and friend skills. This program also promotes students at all different levels to be respected and appreciated as valued members of the school community. Throughout this class, you will provide individualized support to promote healthy competition and good sportsmanship. **Students may earn a weighted grade on the 5.0 scale for this course.**

NOTE: Interested students must apply and successfully complete an interview with Partners in Physical Education teachers, Mr. Castelluci and Mr. D'Amico. Applications can be found in the Fitness Center, Mr. Castelluci's room (C116), or the guidance office.

Grade level: 10, 11, 12

WEST ALLEGHENY HIGH SCHOOL SCIENCE SEQUENCE

9TH GRADE	BIOLOGY WITH LAB HONORS BIOLOGY WITH LAB
10TH GRADE	CONCEPTUAL CHEMISTRY HONORS CHEMISTRY WITH LAB
11TH GRADE	CONCEPTUAL PHYSICS PHYSICS AP PHYSICS 1 ^{PR}
12TH GRADE	HONORS ANATOMY AND PHYSIOLOGY ^{PR} AP BIOLOGY ^{PR} AP CHEMISTRY ^{PR} AP PHYSICS 1 ^{PR} AP PHYSICS 2 ^{PR} CYBERSECURITY CAPTSONE ^{PR} DIGITAL ELECTRONICS ^{PR} ETHICAL HACKING ^{PR} EXERCISE SCIENCE ^{PR} FORENSICS SCIENCE ENVIRONMENTAL SUSTAINABILITY VIRTUAL REALITY ^{PR} HEALTH SCIENCES (WAVA) INTRO TO ASTRONOMY (S – WAVA) INTRO TO MARINE BIOLOGY (S – WAVA) INTRO TO VETRINARY SCIENCE (S – WAVA) FORESTRY & NATURAL RESOURCES (S – WAVA)

^{PR} - Check prerequisites in course descriptions

S - Semester class worth .5 credits

Students enrolling in an ECIHSA-PTC Health Science Academy or CCBC Aviation Academy should refer to the corresponding program flyer for course sequence.

Students may elect to take more than one science course during any year.

SCIENCE

BIOLOGY WITH LAB **0402 1.50 CREDIT**

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

HONORS BIOLOGY WITH LAB **0403 1.50 CREDIT**

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 9th grade students. ***Students may earn a weighted grade on the 4.5 scale for this course.***

Prerequisites: "A" in 8th grade science, teacher recommendation

Grade level: 9

CONCEPTUAL CHEMISTRY **0404 1 CREDIT**

In this course, the student is introduced to the methods and contents of fundamental chemistry as part of a terminal chemistry course to meet science requirements of West Allegheny High School. A conceptual framework will be provided as students gain experience and appreciation of chemistry through experimentation and inquiry. Basic lab skills are developed with a reduction in complexity of mathematics.

Grade level: 10, 11

HONORS CHEMISTRY WITH LAB **0405 1.50 CREDIT**

In this course, the student is introduced to the methods and contents of the fundamentals of chemistry while meeting the needs of those required to take a first-year college chemistry course. Concepts introduced in the classroom are applied in the laboratory as basic lab skills and application/synthesis of the material is explored. ***Students may earn a weighted grade on the 4.5 scale for this course.***

Prerequisites: "A" in Biology or "B" in Honors Biology

Grade level: 10, 11

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

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 discussed in this course are: 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

SCIENCE

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. This course consists 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. This 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, simulated blood splatter, simulated drugs and poisons, cyber-crime and murder mystery scenarios.

Grade level: 11, 12

HONORS 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.**

Prerequisites: "B" or higher in Honors Biology or Biology AND a "C" or higher in Honors Chemistry OR an "A" in Conceptual Chemistry and Proficient or Advanced on the Keystone Biology Exam

Grade level: 11, 12

AP BIOLOGY

0410 1.50 CREDIT

8 CCAC CREDITS POSSIBLE THROUGH ECIHSA*

BIO 151 – GENERAL BIOLOGY 1 (4 CR)
BIO 152 – GENERAL BIOLOGY 2 (4 CR)
(Student must earn a qualifying score on CCAC's aligned placement test to be eligible to earn CCAC 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: "B" or higher in Honors Biology and Honors Chemistry, teacher recommendation
***Corequisite:** Students in 10th grade must be concurrently enrolled in Honors Chemistry

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

8 CCAC CREDITS POSSIBLE THROUGH ECIHSA*

CHM 151 – GENERAL CHEMISTRY 1 (4 CR)
CHM 152 – GENERAL CHEMISTRY 2 (4 CR)
(Student must earn a qualifying score on CCAC's aligned placement test to be eligible to earn CCAC 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" in Honors Chemistry or chemistry teacher approval

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

AP PHYSICS 1

0412 1.50 CREDIT

4 CCAC CREDITS POSSIBLE THROUGH
ECIHS

PHY 141 – PHYSICS 1 (4 CR)

(Student must earn a qualifying score on CCAC's
aligned placement test to be eligible to earn CCAC
credit)

AP Physics 1 is an algebra-based, introductory college level physics course designed for all college bound students interested in pursuing a science related field, more advanced work in the life sciences, medicine, geology, or as a component in a non-science college program that has science requirements. This course explores topics such as Kinematics, Dynamics, Conservation of Energy, Momentum, Rotational Motion, Simple Harmonic Motion and Thermodynamics. Students seeking to major in engineering, science, or any STEM related fields in college are encouraged to enroll.

This course is designed to prepare students for the AP Physics 1 Exam in May, which could result in a student receiving college credit. AP Physics 1 is a rigorous course that relies heavily on students' math and algebra skills. In addition, through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. This course requires 25% of the instructional time be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that will provide students with the opportunity to apply the scientific practices.

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: "B" or higher in both Geometry & Algebra II, "B" or higher in Honors Chemistry, or Chemistry teacher recommendation

Corequisite: Trigonometry/Pre-Calc

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 PHYSICS 2

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

Prerequisite: "B" or higher in AP Physics 1 AND teacher recommendation

Grade level: 11, 12

SCIENCE

HEALTH SCIENCES

(WAVA ONLY)

V425 1 CREDIT

In this course, students will be introduced to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. They will explore the importance of diagnostics and research in the identification and treatment of diseases. The course presents information and terminology for the health sciences and examines the contributions of different health science areas.

***Prerequisites:** "B" or higher in Biology, teacher recommendation*

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

INTRO TO ASTRONOMY

(S - WAVA ONLY)

V426 .50 CREDIT

This course will include topics such as astronomy's history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Further knowledge is gained through the study of galaxies, stars, and the origin of the universe.

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

INTRO TO MARINE BIOLOGY

(S - WAVA ONLY)

V427 .50 CREDIT

In Introduction to Marine Biology, students will begin to understand a great deal more about the aquatic cycles, structures, and processes that generate and sustain life in the sea. Through the use of scientific inquiry, research, measurement, and problem solving, students will conduct various scientific procedures that will lead to an increased level of knowledge about Marine Science.

***Prerequisites:** Successful completion of Biology*

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

INTRO TO VETERINARY SCIENCE

(S2 - WAVA ONLY)

V428 .50 CREDIT

As animals play an increasingly important role in our lives, scientists have sought to learn more about their health and well-being. Taking a look at the pets that live in our homes, on our farms, and in zoos and wildlife sanctuaries, this course will examine some of the common diseases and treatments for domestic animals. Toxins, parasites, and infectious diseases impact not only the animals around us, but at times...we humans as well! Through veterinary medicine and science, the prevention and treatment of diseases and health issues is studied and applied.

***Prerequisites:** "B" or higher in Biology, teacher recommendation*

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

FORESTRY & NATURAL RESOURCES

(S1 - WAVA ONLY)

V429 .50 CREDIT

Forests and other natural resources play an important role in our world, from providing lumber and paper products to providing habitat for birds and animals. In the Introduction to Forestry and Natural Resources course, students will learn more about forest ecology, management, and conservation. Students will explore topics such as environmental policy, land use, water resources, and wildlife management. Finally, students will learn more about forestry related careers and important issues facing forestry professionals today.

***Prerequisites:** Successful completion of Biology*

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

WEST ALLEGHENY HIGH SCHOOL

SOCIAL STUDIES SEQUENCE

9TH GRADE	US HISTORY HONORS US HISTORY
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10TH GRADE	AMERICAN GOVERNMENT HONORS AMERICAN GOVERNMENT AP US GOVERNMENT AND POLITICS
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11TH GRADE	WORLD CULTURES AP WORLD HISTORY
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12TH GRADE	AP PSYCHOLOGY HONORS AFRICAN AMERICAN & MULTICUL STUDIES CRIMINAL JUSTICE & INVESTIGATIONS HONORS PSYCHOLOGY AND SOCIOLOGY HONORS HOLOCAUST AND GENOCIDE STUDIES GAME PRODUCTION AND MARKETING^{PR} BUSINESS, LAW, & SOCIETY AP SEMINAR^{PR} CURRENT AFFAIRS (S) SOCIOLOGY OF SPORTS (S) USMC JUNIOR ROTC IV^{PR} SPANISH III^{PR} HEC SPANISH IV^{PR} AP SPANISH LANGUAGE AND CULTURE^{PR} FRENCH III (WAVA)^{PR} FRENCH IV (WAVA)^{PR} AP FRENCH LANGUAGE AND CULTURE (WAVA)^{PR} GERMAN III^{PR} HEC GERMAN IV^{PR} AP GERMAN LANGUAGE AND CULTURE^{PR} AP UNITED STATES HISTORY (WAVA)^{PR} INTRO TO WORLD RELIGIONS (S – WAVA) WOMEN’S STUDIES (S – WAVA) INTRO TO MILITARY CAREERS (S – WAVA) INTRO TO ARCHAEOLOGY (S – WAVA)
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^{PR} - Check prerequisites in course descriptions

S - Semester class worth .5 credits

Students enrolling in an ECIHSA-PTC Health Science Academy or CCBC Aviation Academy should refer to the corresponding program flyer for course sequence.

Students may elect to take more than one science course during any year.

SOCIAL STUDIES

US HISTORY 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

HONORS US HISTORY 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 this 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.***

Prerequisite: "A" through all grading periods in 8th grade social studies

Grade level: 9

AMERICAN GOVERNMENT 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.

As part of Act 35, all students in American Government will complete the district designed end of course Civics Exam. The completion of this exam is a WA graduation requirement.

Grade level: 10

HONORS AMERICAN GOVERNMENT 0231 1 CREDIT

An academically demanding 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. A high level of reading comprehension, independent study and study skills is required to master areas of debate, analysis, problem solving and essay development.

As part of Act 35, all students in Honors American Government will complete the district designed end of course Civics Exam. The completion of this exam is a WA graduation requirement. ***Students may earn a weighted grade on the 4.5 scale for this course.***

Grade level: 10

SOCIAL STUDIES

AP US GOVERNMENT AND POLITICS

0232 1 CREDIT

3 CCAC CREDITS POSSIBLE THROUGH
ECIHS

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.

As part of Act 35, all students in AP United States Government and Politics will complete the district designed end of course Civics Exam. The completion of this exam is a WA graduation requirement. ***Students may earn a weighted grade on the 5.0 scale for this course.***

Prerequisite: “A” in all previous social studies courses

Grade level: 10, 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 backgrounds greatly influence decisions and priorities.

Grade level: 11

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. This 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.

This 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: Teacher recommendation

Grade level: 11

SOCIAL STUDIES

AP US HISTORY (WAVA ONLY) V239 1 CREDIT

This online course develops critical thinking skills by encouraging multiple views as students realized that there are often multiple accounts of a single historical event that may not be entirely consistent. Electronic discussion groups encourage collaboration, and a variety of practice activities are provided, from multiple choice actions to advanced interactions. Units include: The Historical Process; Early America; Revolutionary America; The Civil War; Populism and Progressivism; the emergence of the U.S. as a world power; and contemporary themes.

Writing assignments will be frequent so that the students can prepare for and develop their writing skills for the AP exam. Writing activities consists of a Document Based Questions (DBQ) or a Long-Essay questions. Most of these questions are taken from previous AP US History 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" in all previous social studies courses

Grade level: 10, 11, 12

AP PSYCHOLOGY 0240 1 CREDIT 3 RMU CREDITS POSSIBLE THROUGH ECIHS

PYSC 1010 – GENERAL PSYCHOLOGY (3 CR)

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, and 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. A 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: Teacher recommendation

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 ECIHS

CJC 101 – INTRO CRIMINAL JUSTICE (3CR)
CJC 201 – FUND CRIMINAL INVEST (3 CR) –
asynchronous through CCAC

This course will study crime and its societal reaction, as well as the various components of the criminal 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

SOCIAL STUDIES

HONORS PSYCHOLOGY AND SOCIOLOGY 0244 1 CREDIT

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 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 complete research and give presentations on Serial Killers and Religion. Higher level discussions will take place during debates and Socratic Seminars. ***Students may earn a weighted grade on the 4.5 scale for this course.***

Grade level: 11, 12

HONORS AFRICAN AMERICAN & MULTICULTURAL STUDIES 0245 1 CREDIT

The African American and Multicultural Studies course is designed to explore the interconnectedness of cultures from across the world. Through learning about the contributions of African Americans to the development of the United States and through the exploration of the concepts of cultural identity, diversity, and equity, students will develop critical thinking and leadership skills to help them not only navigate but lead in a multiculturally diverse society. This course will explore the history of various racial groups in the United States through multiple perspectives. This course will focus on the themes of social justice, social responsibility, and social change. African American and Multicultural Studies is a course that will enhance students' knowledge and skills needed to live in a multicultural world. ***Students may earn a weighted grade on the 4.5 scale for this course.***

Grade level: 11, 12

HONORS HOLOCAUST AND GENOCIDE STUDIES 0247 1 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, this 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. ***Students may earn a weighted grade on the 4.5 scale for this course.***

Grade level: 11, 12

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, videotapes, etc. This semester course will allow the student to experience happenings in our world in a well-rounded way.

Grade level: 11, 12

SOCIAL STUDIES

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 this 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. On the other hand, this 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. This course will also deal with the political economy of big-time sports, including major university and professional sports.

Grade level: 11, 12

INTRODUCTION TO ARCHAEOLOGY

(S - WAVA ONLY)

V251 .50 CREDIT

The field of archaeology helps us to better understand the events and societies of the past that have helped to shape our modern world. This course focuses on this techniques, methods, and theories that guide the study of the past. Students will learn how archaeological research is conducted and interpreted, as well as how artifacts are located and preserved. Finally, students will learn about the relationship of material items to culture and what we can learn about past societies from these items.

Grade level: 11, 12

INTRODUCTION TO WORLD RELIGIONS (S - WAVA ONLY)

V252 .50 CREDIT

Throughout the ages, religions from around the world have shaped the political, social, and cultural aspects of societies. This course focuses on the major religions that have played a role in human history, including Buddhism, Christianity, Confucianism, Hinduism, Islam, Judaism, Shintoism, and Taosim. Students will trace the major developments in these religions and explore their relationships with social institutions and culture. The course will also discuss some of the similarities and differences among the major religions and examine the connections and influences they have.

Grade level: 11, 12

WOMEN'S STUDIES: A PERSONAL JOURNEY THROUGH FILM

(S - WAVA ONLY)

V253 .50 CREDIT

Maybe you grew up watching movies with female characters like Cinderella, Belle, Snow White, or Ariel. Maybe you've wondered why there are stereotypes about women being bad drivers or ignorant about sports. Maybe you want to know about feminism and the women's movement. Women's Studies: A Personal Journey Through Film can help you answer these questions. Though it focuses on the experience of women, it's appropriate for anyone who wants to learn to critically examine films while learning about the history of the women's movement and how gender, race, and social class influence us. Women have earned their right to stand up and be recognized as equal partners and reap the benefits of their hard work. As the anonymous quote goes, "History is Herstory too."

Grade level: 11, 12

SOCIAL STUDIES

INTRODUCTION TO MILITARY CAREERS (S - WAVA ONLY) V254 .50 CREDIT

Introduction to Military Careers will provide the answers. The military is far more diverse and offers many more career opportunities and tracks than most people imagine. In Introduction to Military Careers, students will learn not only about the four branches of the military (and the Coast Guard) but also about the types of jobs they might pursue in each branch. From aviation to medicine, law enforcement to dentistry, the military can be an outstanding place to pursue one's dreams.

Grade level: 11, 12

U.S. MARINE CORPS

JUNIOR RESERVE OFFICER TRAINING CORPS

U.S. MARINE CORPS JUNIOR ROTC I 0261 1 CREDIT

The purpose of JROTC is to develop informed and responsible citizens, develop basic leadership skills, strengthen character, help form habits of self-discipline, basic Marine Corps and U.S. History, basic drill movements, marksmanship, Marine Corps Uniform regulations, first aid, basic physical fitness, substance abuse prevention, and organizational skills. The objective of the MCJROTC program is to build self-confidence and to promote graduation from high school.

Grade level: 9, 10, 11, 12

U.S. MARINE CORPS JUNIOR ROTC II 0262 1 CREDIT

The purpose of the JROTC II is to develop leadership and build character, create informed and responsible citizens, develop responsible young adults who are physically, mentally, and morally fit. Emphasis is placed on reviewing the tenets of MCJROTC-I while expanding the concentration on individual leadership and organizational skills. Cadets will progress with regards to drill movements and ceremony and be capable of leading a squad size unit. An emphasis will be on cadet promotions within the cadet rank structure through competitive testing based on practical and academic based evaluations and each Cadet's character as a whole.

Prerequisite: A final grade of "C" or higher in MCJROTC I or written permission from the MCJROTC staff

Grade level: 10, 11, 12

U.S. MARINE CORPS JUNIOR ROTC III 0263 1 CREDIT

The purpose of JROTC III is to develop leadership and build character, create informed and responsible citizens, and develop responsible young adults who are physically, mentally, and morally fit. Emphasis is placed on the reviewing the tenants of MCJROTC I & II while expanding the concentration on unit leadership techniques, and preparation for higher education, civilian careers, and public service. Cadets will compete for leadership positions and be eligible for promotion to the Staff Noncommissioned officer grade. Outstanding cadets completing MCJROTC III 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 higher in MCJROTC II or written permission from the MCJROTC staff

Grade level: 11, 12

U.S. MARINE CORPS JUNIOR ROTC IV 0264 1 CREDIT

The purpose of JROTC IV 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 JROTC course requirements.

Prerequisite: A final grade of "B" or higher in MCJROTC III or written permission from the MCJROTC staff

Grade level: 12

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

U.S. MARINE CORPS

JUNIOR RESERVE OFFICER TRAINING CORPS

FOUNDATIONS OF LEADERSHIP **0265 1 CREDIT**

From business operations to international and military affairs, Leadership concerns the use of power or influence to coordinate a group toward a common purpose. This course introduces juniors and seniors who are committed to further developing their leadership skills to foundational leadership concepts. It is a theoretical class that utilizes examples from business, health care, sports, aviation, and the military, to develop a student who is both a critical thinker and scholar. In addition, students will examine their personal leadership styles and develop strategies to become more influential and successful leaders in their organizations or professional workplaces. The goal is to educate the student about Leadership through an ethical lens and develop responsible young adults who are prepared for higher education, civilian careers, and public service. Practical applications are explored using experiential exercises, case studies, and discussions. Other topics developed include decision-making, communication, responsibility, authority, and accountability.

Grade level: 11, 12

VISUAL ARTS

ART I

0740 1 CREDIT

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 students with fundamental techniques, which will focus on foundational skill building and encourage individual expression. Students will be required to show at least 2 pieces at the annual art show.

Grade level: 9, 10, 11, 12

ART II

0741 1 CREDIT

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, building confidence in individual creativity, and exploration of artists and art history. Students will be required to show at least 3 pieces at the annual art show.

Prerequisite: "C" or higher in Art I

Grade level: 10, 11, 12

ART III

0742 1 CREDIT

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: "C" or higher in Art I AND Art II

Grade level: 11, 12

HONORS ART IV

0743 1 CREDIT

This course is designed for the advanced art student who wishes to pursue their continued development as an artist. 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: "C" or higher in Art I, Art II, AND Art III

Grade level: 12

AP DRAWING

0744 1 CREDIT

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 students 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 20 pieces made up of 15 digital submissions along with 5 physical works. ***Students may earn a weighted grade on the 5.0 scale for this course.***

Prerequisites: "A" in Art I, Art II AND Art III, enrollment in Art IV, teacher recommendation

Grade level: 12

VISUAL ARTS

CERAMICS 1
0745 1 CREDIT

In this course, students will explore both introductory hand building and wheel throwing techniques using ceramic clay. Students will have the opportunity to create both functional and sculptural projects, which will begin with conceptualizing unique and creative ideas, building and constructing in 3 dimensional forms, learning about the ceramics firing process, clay recycling process, and finishing works using glaze and underglaze application. Students will be required to show at least 3 pieces at the annual art show.

Grade level: 10, 11, 12

CERAMICS 2
0746 1 CREDIT

In Ceramics 2, students will explore more complex ceramic clay projects that include advanced hand building and wheel throwing skills. They will refine their techniques to create more involved sculptural designs and duplicating vessels to create wheel thrown sets. Students will be more involved in the clay recycling and firing process. Students will be required to show at least 4 pieces at the annual art show.

Prerequisites: "B" or higher in Ceramics 1

Grade level: 11, 12

GRAPHIC DESIGN AND ILLUSTRATION I
(S - WAVA ONLY)
V703 .5 CREDIT

This course covers careers students may want to pursue in graphic design. It also covers training and skills required for a graphic designer. In addition, this course describes how to create images using color and typography and how to manipulate images. It also guides students how to create images using design elements and principles. Finally, this course covers copyright laws and ethics related to the use of graphic design.

Grade level: 9, 10, 11, 12

GRAPHIC DESIGN AND ILLUSTRATION II
(S - WAVA ONLY)
V704 .5 CREDIT

Graphic Design and Illustration II picks up where Graphic Design and Illustration I left off. The course will cover the advanced manipulation of images. It will guide students on how to create graphic products such as logos, posters, and magazine covers. This course also covers multimedia and digital photography. In addition, the course covers art criticism in graphic artwork, digital publishing, and the creation of graphic design portfolio.

Prerequisites: Successful completion of Graphic Design and Illustration I

Grade level: 9, 10, 11, 12

ART APPRECIATION
(S - WAVA ONLY)
V745 .5 CREDIT

Who is the greatest artist of all time? Is it Leonardo DaVinci? Claude Monet? Michelangelo? Pablo Picasso? Is the greatest artist of all time someone whose name has been lost to history? Students will learn about some of the greatest artists while also creating art of their own, including digital art. This course will explore the basic principles and elements of art, learn how to critique art, and examine some of the traditional art of the Americas, Africa, and Oceania in addition to the development of Western art.

Grade level: 9, 10, 11, 12

WORLD LANGUAGES

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: *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: *"C" or higher in Spanish I and 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: *"C" or higher in Spanish II and 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.

HEC SPANISH IV

0503 1 CREDIT

6 CCAC CREDITS POSSIBLE THROUGH ECIHSA

SPA 101 – ELEMENTARY SPANISH 1 (3CR)
SPA 102 – ELEMENTARY SPANISH 2 (3CR)
(Student must earn a qualifying score on CCAC's aligned placement test to be eligible to earn CCAC credit)

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 5.0 scale for this course.**

Prerequisite: *"B" or higher in Spanish III and 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.

WORLD LANGUAGES

AP SPANISH LANGUAGE & CULTURE

0504 1 CREDIT

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: "B" or higher in Spanish III or teacher recommendation

Grade level: 12

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

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

GERMAN I

0520 1 CREDIT

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: Strongly recommended that students have at least a "C" in English

Grade level: 9, 10, 11, 12

GERMAN II

0521 1 CREDIT

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.

Prerequisite: "C" or higher in German I and strongly recommended that students have at least a "C" average in English

Grade level: 9, 10, 11, 12

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: "C" or higher in German II and 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.

WORLD LANGUAGES

HEC GERMAN IV

0523 1 CREDIT

6 CCAC CREDITS POSSIBLE THROUGH
ECIHS

GER 101 – ELEMENTARY GERMAN 1 (3CR)
GER 102 – ELEMENTARY GERMAN 2 (3CR)
(Student must earn a qualifying score on CCAC's
aligned placement test to be eligible to earn
CCAC credit)

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 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 5.0 scale for this course.***

Prerequisite: "B" or higher in German III and 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 areas of skills development. ***Students may earn a weighted grade on the 5.0 scale for this course.***

Prerequisite: "B" or higher in German IV or teacher recommendation

Grade level: 12

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

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

AMERICAN SIGN LANGUAGE I

0525 .50 CREDIT (S1 ONLY)

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: Strongly recommended that students have at least a "C" average in English

Grade level: 9, 10, 11, 12

WORLD LANGUAGES

AMERICAN SIGN LANGUAGE II 0526 .50 CREDIT (S2 ONLY)

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: “C” or higher in American Sign Language I and strongly recommended that students have at least a “C” average in English

Grade level: 9, 10, 11, 12

FRENCH I (WAVA ONLY) V510 1 CREDIT

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

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 and strongly recommended that students have at least a “C” average in English

Grade level: 9, 10, 11, 12

WORLD LANGUAGES

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 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 and 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.**

FRENCH IV (WAVA ONLY)

V513 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 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:** "B" or higher in French III and 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 FRENCH LANGUAGE & CULTURE (WAVA ONLY)

V514 1 CREDIT

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:** "B" or higher in French IV or teacher recommendation*

***Grade level:** 12*

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

WORLD LANGUAGES

MANDARIN CHINESE I
(WAVA ONLY)
V530 1 CREDIT

Mandarin Chinese I will 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:** "B" average in English OR counselor approval*

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

MANDARIN CHINESE II
(WAVA ONLY)
V531 1 CREDIT

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 and strongly recommended that students have at least a "B" average in English*

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

PARKWAY WEST CAREER & TECHNOLOGY CENTER

AUTO BODY REPAIR **2501 4 CREDITS**

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 a variety of workforce certifications.

AUTOMOTIVE TECHNOLOGY **2502 4 CREDITS**

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 have the opportunity to earn a variety of workforce certifications.

CONSTRUCTION TECHNOLOGY CLUSTER **2503 4 CREDITS**

First-year students in the Construction Technology program will rotate through each of the four courses offered. The courses offered are *Carpentry; Electrical Systems Technology; Heating, Ventilation, Air-Conditioning and Refrigeration; and Welding Technology.*

2504 - CARPENTRY:

A student in the Carpentry 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)** 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.

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)** card.

PARKWAY WEST CAREER & TECHNOLOGY CENTER

CONSTRUCTION TECHNOLOGY CLUSTER *(Continued)*

2507 – POWER MOTORSPORTS

Power Motorsports Technology teaches students to diagnose, maintain, and repair utility vehicles, all-terrain vehicles, including side-by-sides, motorcycles, water crafts as well as outdoor power machines, including lawn and garden equipment. Students will learn the principles of engine operation, understand basic electricity, service and maintain fuel and carburetor systems, transmissions, and powertrain systems used on various types of recreational and lawn & garden equipment. Students may have the opportunity to earn the following certifications: PA Emissions Certification; S/P2, and a **10-hour Occupational Safety and Health Administration (OSHA)** 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 and a **10-hour Occupational Safety and Health Administration (OSHA)** card.

COSMETOLOGY 2509 4 CREDITS

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 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.

PARKWAY WEST CAREER & TECHNOLOGY CENTER

CULINARY ARTS

2510 4 CREDITS

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.

HEALTHCARE OCCUPATIONS TECHNOLOGY

2511 4 CREDITS

Students in the Healthcare Occupations Technology 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:

- **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, 12th 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 12th 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.

DIESEL TECHNOLOGY

2512 4 CREDITS

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.

PARKWAY WEST CAREER & TECHNOLOGY CENTER

GRAPHIC ARTS & PRODUCTION TECHNOLOGY

2513 4 CREDITS

The Graphic Arts & Production Technology 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.

CYBER SECURITY & NETWORK TECHNOLOGY

2514 4 CREDITS

The Cyber Security & Network Technology 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.

PUBLIC SAFETY TECHNOLOGY

2515 4 CREDITS

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.

SPORTS MEDICINE AND REHABILITATION THERAPY TECHNOLOGY (SMARTT)

2516 4 CREDITS

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.

PARKWAY WEST CAREER & TECHNOLOGY CENTER

VETERINARY ASSISTANT TECHNOLOGY 2517 4 CREDITS

In the Veterinary Assistant 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.**

APPLIED ACADEMIC COURSES

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 PWCTC. Students should contact their counselor for more information.

SPECIAL OPTIONS

COLLEGE ADMISSION EXAM PREPARATION

The following College Admission Exam Preparation courses are offered through the West Allegheny Virtual Academy.

ACT PREPARATION

V670 ACT English .25 CREDIT

V671 ACT Mathematics .25 CREDIT

V672 ACT Reading .25 CREDIT

V673 ACT Science Reasoning .25 CREDIT

Each ACT Preparation course is a semester long, online course aligned to the topics that are assessed on the ACT (American College Testing) Subject Exams. Students should possess strong time management skills and self-motivation to be successful in this online course. **This course is graded Pass/Fail.**

Grade level: 10, 11, 12

SAT PREPARATION

V675 SAT Mathematics .25 CREDIT

V676 SAT Reading .25 CREDIT

Each SAT Preparation course is a semester long, online course designed for the college bound student who desires to increase his or her level of preparedness for the taking the SAT (Scholastic Assessment Test). Each course will focus on topics found on the corresponding SAT exam. Students should possess strong time management skills and self-motivation to be successful in this online course. **This course is graded Pass/Fail.**

Grade level: 10, 11, 12

INDEPENDENT STUDY PROGRAM

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 related to independent studies.

INDEPENDENT STUDY

FULL YEAR 6 DAY 1 CREDIT

3 DAY .50 CREDIT

HALF YEAR 6 DAY .50 CREDIT

3 DAY .25 CREDIT

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.

Grade level: 11, 12

SPECIAL OPTIONS

EARLY RELEASE PROGRAM

EARLY RELEASE NO CREDIT

Senior students are eligible for early release based on dual enrollment, employment, or for special circumstances. Junior and sophomore 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 release. Early release requests will only be considered after sixth period. All early release requests require administrator approval and will not take effect until approved by administration. The student is expected to follow their current schedule until notified by their school counselor.

Approval of early release is not guaranteed.

Grade level: 12

DUAL ENROLLMENT PROGRAMS

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 – CCAC (concurrent), Early College in High School Academy – PTC (concurrent/dual), 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.

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 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.

DUAL ENROLLMENT 1 CREDIT

Students may request to receive credit towards 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.

Grade level: 11, 12

National Honor Society

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 plus 5 hours specifically for 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 th Grade		Minimum of 2 Honors or ECIHSA level courses	No specific course requirements
	10 th Grade		Minimum of 2 AP, ECIHSA, or Honors level courses	No specific course requirements
	11 th Grade		Minimum of 2 AP or ECIHSA level courses *	No specific course requirements
	12 th Grade		Minimum of 2 AP or ECIHSA level courses *	No specific course requirements
NHS Pillar	Application Review		All Students Applying	
Service & Leadership	Application		<p>Student must have engaged in a minimum of 10 hours of community service during their high school years (freshman year to present)</p> <p>Student must have participated in a minimum of 2 Varied Activities within two years of seeking membership (at least one activity must be school-related)</p> <p>Student must have taken on a minimum of 1 Leadership role in a school or community related activity within two years of seeking membership</p>	
Scholarship	Academic Recommendation		Letter of recommendation form completed by a teacher	
Character	Personal Recommendations (2)		Letter of recommendation forms (2) completed by non-relative community member, 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	

* Project Lead the Way (PLTW) Courses will be included through the Class of 2025.

AP – Advanced Placement

ECIHSA – Early College in High School Academy (CCAC, RMU, and PTC)

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 a specific GPA. 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 in Appendix C: NCAA College Requirements and Eligibility or by visiting the NCAA website at www.ncaa.org/student-athletes.

NCAA Approved Core-Courses at West Allegheny

ENGLISH	MATH	NATURAL AND PHYSICAL SCIENCE
English 9 Honors English 9 English 10 Honors English 10 English 11 College Readiness English 11 AP English Language & Composition English 12 College Readiness English 12 AP English Literature & Composition Oral Communication and Interpretation AP Research	Algebra 1 Geometry Advanced Geometry Algebra 2 Algebra 2 with Lab HEC Algebra 2 Trigonometry/Precalculus Honors Trigonometry/Precalculus Discrete Math Calculus AP Calculus AB AP Calculus BC AP Statistics AP Computer Science A AP Computer Science Principles	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 Honors Anatomy and Physiology
SOCIAL SCIENCE	ADDITIONAL CORE COURSES	PARKWAY APPROVED COURSES
U.S. History Honors U.S. History American Government AP US Government and Politics World Cultures AP World History AP Psychology AP Economics Honors Psychology/Sociology Honors Holocaust and Genocide Studies Current Affairs Criminal Justice & Investigations	American Sign Language I American Sign Language II German I German II German III HEC German IV Spanish I Spanish II Spanish III HEC Spanish IV AP German Language AP Spanish Language	US History II (PWCTC) Chemical Properties (PWCTC) Principles of Technology (PWCTC)

*New courses for the 2023-2024 school year have been submitted to NCAA for review. If you have concerns about approval of a specific class, please check in with your school counselor or principal prior to the start of the 2023-2024 school year.

Recognition of Graduates

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 3.5 to 3.99 GPA.
- **Cum Laude:** Students who achieved a 3.0 to 3.49 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.

Commencement Speaker

All students who are potential Distinguished Honors Graduates as of the middle of the 3rd 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.

Schedule Change Procedures

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 before the end of the school year (Move Up Day).

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 Schedule Change Requests

1. All schedule change requests for the upcoming school year require a parent signature and must be submitted to the high school Guidance Office via the official schedule change request form by June 8TH, 2023.

School Year Schedule Change Procedures

1. Students must exercise caution before changing/dropping courses to ensure that graduation, future goals, and NCAA requirements (when eligible) are being met.
2. Students must maintain a minimum of 7.00 credits per year unless otherwise permitted by administration through an approved academic plan.

Elective Change Procedures

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 space is available in the impacted classes.
2. Students are responsible for making up any missed work in the new elective course.
3. If the original elective course is dropped within this timeframe, it will NOT appear on the student's transcript.

Academic Level Change Procedures

1. Academic level CHANGE REQUESTS will be considered through the 12th day of school. AP/ECIHS course change requests will require an academic meeting and administrative approval. No academic level change will be considered without teacher input.
2. In the event that an ACADEMIC LEVEL change is approved the student's grades will transfer to the new course and the student is responsible for making up any required work.
3. Students are expected 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 (including summer assignments), seeking extra help, and have met all other conditions established by the teacher.
4. 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 space is available in the impacted classes.
5. If the original academic course is changed within this timeframe, it will NOT appear on the student's transcript.

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.

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Appendix A:

Holland Codes

Naviance Family Connection

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Holland Codes

It's all about
YOU!

Conventional

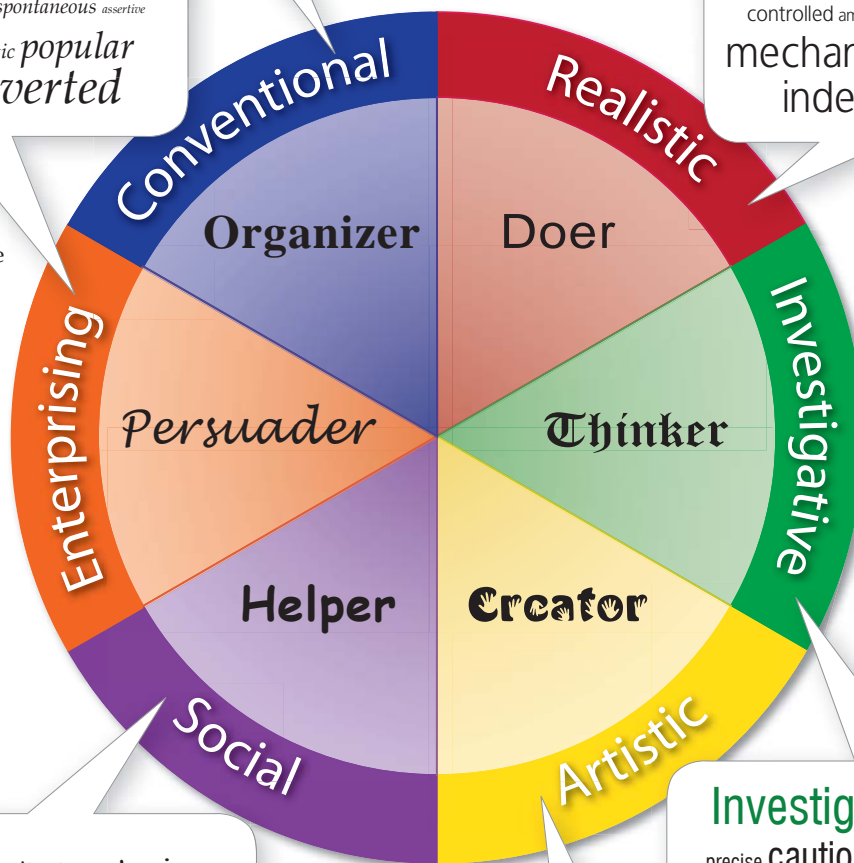
well-organized accurate
numerically-inclined methodical efficient
orderly thrifty structured ambitious persistent conscientious
conforming practical systematic polite obedient

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

scientific reserved
precise cautious self-confident
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

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.

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.

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?		... put things together or assemble models?	
... work on cars?		... be creative?	
... attend concerts, theaters or art exhibits?		... pay attention to details?	
... work in teams?		... do filing or typing?	
... organize things like files, offices or activities?		... learn about other cultures?	
... set goals for yourself?		... analyze things like problems, situations or trends?	
... build things?		... play instruments or sing?	
... read fiction, poetry or plays?		... dream about starting your own business?	
... have clear instructions to follow?		... cook?	
... influence or persuade people?		... act in plays?	
... do experiments?		... think things through before making decisions?	
... teach or train people?		... work with numbers or charts?	
... help people solve their problems?		... discuss issues like politics or current events?	
... take care of animals?		... keep records of your work?	
... have your day structured?		... be a leader?	
... sell things?		... work outdoors?	
... do creative writing?		... work in an office?	
... work on science projects?		... work on math problems?	
... take on new responsibilities?		... help people?	
... heal people?		... draw?	
... figure out how things work?		... give speeches?	

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**.

Realistic	Investigative	Artistic	Social	Enterprising	Conventional	Three highest scores = Your Interest Profile		

Based on the Holland Code by Dr. John L. Holland, Source: 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 careers and colleges
- **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 career and college 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 career and college 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](#)

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Appendix B:

Pathways to Graduation

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Pathways to Graduation

Guide to Meeting Statewide Requirements for High School Graduation

Keystone Proficiency Pathway

Keystone Composite Pathway

CTE Concentrator
Pathway

Alternative Assessment
Pathway

Evidence-Based
Pathway

Through Act 158 of 2018 and Act 6 of 2017, students graduating from a Pennsylvania public high school in 2023 or later will have the flexibility to meet statewide high school graduation requirements through one of five pathways that fully illustrate their college, career, and community readiness.

This guide is designed to assist during school counselor consultations, leading staff, and secondary students through the various pathways as they consider which best exemplifies each student's interests and goals. Prior to use, counselors should amend the guide to reflect only those options available to their students; for example, some schools do not offer an International Baccalaureate (IB) Diploma Programme. Counselors may also adapt the guide to include local policies, which are not limited to the statewide requirement and also govern graduation.

At the end of this guide is a sample student checklist to facilitate discussion and serve as a visual prompt for coursework selection or participation in opportunities such as internships or service learning projects as students pursue one or more pathways to graduation. For additional information on evidence requirements and other sample student forms, refer to the Act 158 Toolkit at <https://www.pdesas.org/Page/Viewer/ViewPage/56/>.

Keystone Proficiency and Keystone Composite Pathways

Keystone Proficiency remains a pathway to high school graduation for the graduating class of 2023 and beyond. Commonwealth students will *not* be required to pass the Keystone Exams (Algebra I, Literature, and Biology) in order to graduate; however, since most students will continue to participate in the Keystone Exams for federal accountability purposes, those achieving scores of Proficient or Advanced (a minimum scaled score of 1500 or higher) in each of the three Keystone Exams demonstrate Keystone Proficiency and meet statewide requirements for high school graduation.

Students achieving a minimum scaled score of less than 1500 on a Keystone Exam may meet statewide requirements under the new **Keystone Composite** Pathway provided:

- ✓ No score of Below Basic was earned for any Keystone Exam,
- ✓ A score of Proficient or Advanced was achieved on at least one Keystone Exam, and
- ✓ The composite score for all three Keystone Exams is 4452 or greater.

If students do not have three Keystone Exam scores or do not meet the requirements for either Keystone Pathway, they may opt to retake one or more Keystone Exams or may elect to meet statewide graduation requirements under the Career & Technical Education (CTE) Concentrator Pathway, Alternative Assessment Pathway, or Evidence-Based Pathway.

Pathways to Graduation

Guide to Meeting Statewide Requirements for High School Graduation CTE Concentrator, Alternative Assessment, and Evidence-Based Pathways

Locally Established Grade-Based Requirements

For the **CTE Concentrator**, **Alternative Assessment**, and **Evidence-Based** Pathways, each student must meet locally established grade-based requirements for academic content associated with *every* Keystone Exam on which the student earned a score of Basic or Below Basic.

By way of example, a student who only demonstrated Proficiency or better in the Keystone Literature Exam would need to meet locally established grade-based requirements for academic content associated with *both* Algebra I and Biology (e.g., the student may be required to pass both the Algebra I and the Biology courses). **Note:** Although schools may offer Project-Based Assessments (PBA) as grade-based options, they may not require students to participate in PBAs.

Pathway Evidence

In addition to meeting the aforementioned grade-based requirements, the student must provide pathway-related evidence demonstrating preparedness for postsecondary success.

To meet evidentiary requirements under the **Career & Technical Education (CTE) Concentrator** Pathway, a student must attain an Industry-Based Competency Certification related to the program of study *or* demonstrate either 1) readiness for continued meaningful engagement in the program of study *or* 2) a high likelihood of success on an approved industry-based assessment.

For evidence required under the **Alternative Assessment** and **Evidence-Based** Pathways, please refer to the chart on the following page.

Note: Although the **Alternative Assessment** Pathway requires only one piece of evidence, students earning scores of Basic or Below Basic on two or more Keystone Exams may need to fulfill multiple conditions in order to meet the pathway requirement for that piece of evidence.

By way of example, a student who only demonstrated Proficiency or better in the Keystone Literature Exam would need to 1) meet locally established grade-based requirements for academic content associated with *both* Algebra I and Biology and 2) satisfy *one* of the following pathway requirements:

- Achieve a score of 3 or higher on *two* AP exams (on academic content associated with Algebra I and Biology respectively) OR
- Achieve a score of 4 or higher on *two* IB exams (on academic content associated with Algebra I and Biology respectively) OR
- Successfully complete for *two* concurrent enrollment courses (on academic content associated with Algebra I and Biology respectively) OR
- Achieve an established score on *one* approved alternative assessment (including ACT WorkKeys NCRC), or
- Successfully complete *one* pre-apprenticeship program OR
- Gain acceptance into *one* 4-yr IHE and demonstrate the ability to enroll in college-level work.

Conversely, the **Evidence-Based** Pathway requires three pieces of evidence that reflect readiness for meaningful postsecondary engagement consistent with the student's goals and career plan – though no evidence under this pathway requires the fulfillment of multiple conditions associated with Keystone academic content (e.g., a score of 3 or higher on *any* AP Exam meets the criterion for one piece of evidence). However, as in Alternative Assessment and CTE Concentrator Pathways, students pursuing the Evidence-Based Pathway must meet locally established grade-based requirements for academic content associated with every Keystone Exam on which the student was less than proficient *in addition* to meeting evidentiary requirements for that pathway.

Pathways to Graduation

Guide to Meeting Statewide Requirements for High School Graduation

Meet local grade-based requirements for content associated with *every* Keystone Exam on which a student did not score Proficient or Advanced AND...

demonstrate readiness by attaining evidence under ONE of these pathways: ➡	Alternative Assessment Pathway (requires 1 piece of evidence)	Evidence-Based Pathway (requires 3 pieces of evidence)
Satisfy ONE of the requirements (✓) below:	Satisfy up to THREE* of the requirements (✓) below:	
Meet or exceed established score(s) on an approved alternative assessment	✓ Achieve <i>one</i> of the following: ACT – a composite score of 21 ASVAB – an AFQT composite score of 31 PSAT/NMSQT – a total score of 970 SAT – a total score of 1010	✓ Achieve at least a 630 on <i>any</i> SAT Subject Test(s) <i>(each SAT Subject Test in a different subject or level and with an earned score of 630 or higher may be counted as a piece of evidence)</i>
Meet or exceed established score on the ACT WorkKeys	✓ Achieve at least Gold Level NCRC (National Career Readiness Certificate)	✓ Achieve at least Silver Level NCRC (National Career Readiness Certificate)
Meet or exceed established score(s) on Advanced Placement (AP) Exam(s)	✓ For <i>every</i> Keystone Exam on which less than Proficient, take a content-related AP Exam and score a 3 or higher on <i>each</i>	✓ Score a 3 or higher on AP Exam(s) in <i>any</i> content area <i>(each AP Exam affiliated with a different course and with an earned score of 3 or higher may be counted as a piece of evidence)</i>
Meet or exceed established score(s) on International Baccalaureate (IB) Exam(s)	✓ For <i>every</i> Keystone Exam on which less than Proficient, take a content-related IB Exam and score a 4 or higher on <i>each</i>	✓ Score a 3 or higher on IB Exam(s) in <i>any</i> content area <i>(each IB Exam affiliated with a different course and with an earned score of 3 or higher may be counted as a piece of evidence)</i>
Successfully complete concurrent enrollment course(s) OR Successfully complete a postsecondary (other than concurrent enrollment) course(s)	✓ For <i>every</i> Keystone Exam on which less than Proficient, successfully complete a content-related concurrent course	✓ Successfully complete concurrent enrollment course(s) in <i>any</i> content area OR Successfully complete any postsecondary course(s) provided by an LEA-approved institution <i>(each course successfully completed may be counted as a piece of evidence)</i>
Acceptance into an accredited non-profit Institution of Higher Education (IHE) and ability to enroll in college-level work	✓ Provide an unconditional acceptance letter from a 4-year IHE OR general admittance and proof of college-level coursework enrollment/equivalent placement test results/equivalent graduate profile	✓ Provide an unconditional acceptance letter from an other-than-4-year IHE OR general admittance and proof of college-level coursework enrollment/equivalent placement test results/equivalent graduate profile
Successfully complete a Pre-Apprenticeship Program	✓ Successfully complete a PA Labor & Industry registered pre-apprenticeship program	N/A
Attain Industry-Recognized Credential(s)	N/A	✓ Receive Industry-Recognized Credential(s) from an SEA- or LEA-approved provider <i>(each credential earned may be counted as a piece of evidence)</i>
		*At least ONE piece of evidence must be attained through the requirements listed above. To attain additional evidence, the student may satisfy up to TWO of the requirements (✓) below:
Score Proficient or Advanced on Keystone Exam(s)	N/A	✓ Meet or exceed a score of 1500 on the Algebra 1, Biology, or Literature Keystone Exam(s) <i>(each Keystone Exam affiliated with a different course and with an earned score of 1500 or higher may be counted as a piece of evidence)</i>
Complete Service-Learning Project(s)	N/A	✓ Successfully complete (verified by adult supervisor) LEA-approved service-learning project(s) of sufficient duration and intensity to address community needs and learning goals <i>(each service-learning project completed may be counted as a piece of evidence, maximum two)</i>
Complete Internship(s), Externship(s), or Cooperative Education Program(s)	N/A	✓ Successfully complete (as defined by LEA) an internship or cooperative education program <i>(each internship, externship, or cooperative education program completed may be counted as a piece of evidence, maximum two)</i>
Comply with the NCAA Division II core course requirements for college-bound athletes	N/A	✓ Maintain the minimum credits and GPA in requisite courses per NCAA guidelines (as certified by LEA)
Attain a letter guaranteeing full-time employment	N/A	✓ Provide a letter or completed form indicating good faith offer(s) of postsecondary work commensurate with full-time employment as verified by the school administrator OR enlistment papers

Pathways to Graduation

Guide to Meeting Statewide Requirements for High School Graduation

Sample Student Checklist

[STUDENT NAME]

[PAsecureID]

[DATE]

KEYSTONE PROFICIENCY PATHWAY	
ALGEBRA I KEYSTONE EXAM	[scaled score]
BIOLOGY KEYSTONE EXAM	[scaled score]
LITERATURE KEYSTONE EXAM	[scaled score]
ALL THREE 1500 OR HIGHER	<input type="checkbox"/> SATISFIED (PATHWAY COMPLETE) <input type="checkbox"/> NOT SATISFIED (see Keystone Composite)

ALGEBRA I: Below Basic (1200-1438), Basic (1439-1499), Proficient (1500-1545), Advanced (1546-1800)
 BIOLOGY: Below Basic (1200-1459), Basic (1460-1499), Proficient (1500-1548), Advanced (1549-1800)
 LITERATURE: Below Basic (1200-1443), Basic (1444-1499), Proficient (1500-1583), Advanced (1584-1800)

KEYSTONE COMPOSITE PATHWAY	
No score Below Basic	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET
At least one score Proficient or Advanced	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET
Composite score 4452 or higher	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET
ALL THREE MARKED MET	<input type="checkbox"/> SATISFIED (PATHWAY COMPLETE) <input type="checkbox"/> NOT SATISFIED (see Decision Matrix A)

DECISION MATRIX A	
Will you retake one or more Keystone Exams?	<input type="checkbox"/> YES (see Keystone Proficiency Pathway) <input type="checkbox"/> NO (see next question)
Are you engaged in CTE program of study?	<input type="checkbox"/> YES (see CTE Concentrator Pathway) <input type="checkbox"/> NO (see Decision Matrix B)

CAREER & TECHNICAL EDUCATION (CTE) CONCENTRATOR PATHWAY			
ALGEBRA 1 KEYSTONE EXAM	Scaled score of 1500 or higher	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET (requires one marked YES)
	Grade-based requirements satisfied	<input type="checkbox"/> YES <input type="checkbox"/> NO	
BIOLOGY KEYSTONE EXAM (or STEE course)	Scaled score of 1500 or higher	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET (requires one marked YES)
	Grade-based requirements satisfied	<input type="checkbox"/> YES <input type="checkbox"/> NO	
LITERATURE KEYSTONE EXAM	Scaled score of 1500 or higher	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET (requires one marked YES)
	Grade-based requirements satisfied	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Industry-Based Evidence	Competency certification attainment	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET (requires one marked YES)
	Program continuation readiness	<input type="checkbox"/> YES <input type="checkbox"/> NO	
	Industry-based assessment potential	<input type="checkbox"/> YES <input type="checkbox"/> NO	
ALL FOUR MARKED MET			<input type="checkbox"/> SATISFIED (PATHWAY COMPLETE) <input type="checkbox"/> NOT SATISFIED (review options)

Pathways to Graduation

Guide to Meeting Statewide Requirements for High School Graduation

DECISION MATRIX B	
Are you participating in the ACT, PSAT/NMSQT, SAT, or ASVAB?	<input type="checkbox"/> YES (consider Alternative Assessment Pathway) <input type="checkbox"/> NO (see next question)
Are you planning to attend a 4-year institution of higher education?	<input type="checkbox"/> YES (consider Alternative Assessment Pathway) <input type="checkbox"/> NO (see next question)
Are you enrolled in a pre-apprenticeship program?	<input type="checkbox"/> YES (consider Alternative Assessment Pathway) <input type="checkbox"/> NO (see Decision Matrix C)

ALTERNATIVE ASSESSMENT PATHWAY			
CORE REQUIREMENTS			
ALGEBRA 1 KEYSTONE EXAM	Scaled score of 1500 or higher	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET (requires one marked YES)
	Grade-based requirements satisfied	<input type="checkbox"/> YES <input type="checkbox"/> NO	
BIOLOGY KEYSTONE EXAM	Scaled score of 1500 or higher	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET (requires one marked YES)
	Grade-based requirements satisfied	<input type="checkbox"/> YES <input type="checkbox"/> NO	
LITERATURE KEYSTONE EXAM	Scaled score of 1500 or higher	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET (requires one marked YES)
	Grade-based requirements satisfied	<input type="checkbox"/> YES <input type="checkbox"/> NO	
EVIDENTIARY REQUIREMENTS			
Meet or exceed established score on ONE approved alternative assessment	ACT composite score of 21 or higher	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET (requires one marked YES)
	ASVAB AFQT composite score of 31 or higher	<input type="checkbox"/> YES <input type="checkbox"/> NO	
	PSAT/NMSQT total score of 970 or higher	<input type="checkbox"/> YES <input type="checkbox"/> NO	
	SAT total score of 1010 or higher	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Meet or exceed established score on ACT WorkKeys	NCRC Gold Level or higher		<input type="checkbox"/> MET <input type="checkbox"/> NOT MET
Score 3 or higher on AP Exam(s) related to EACH Keystone Exam on which less than Proficient	AP Exam score 3 or higher (Algebra I)	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET (requires each marked YES or N/A)
	AP Exam score 3 or higher (Biology)	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	
	AP Exam score 3 or higher	<input type="checkbox"/> YES	

Pathways to Graduation

Guide to Meeting Statewide Requirements for High School Graduation

	(Literature)	<input type="checkbox"/> NO <input type="checkbox"/> N/A		
Score 4 or higher on IB Exam(s) related to EACH Keystone Exam on which less than Proficient	IB Exam score 3 or higher (Algebra I)	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET (requires each marked YES or N/A)	
	IB Exam score 3 or higher (Biology)	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A		
	IB Exam score 3 or higher (Literature)	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A		
Successfully complete concurrent enrollment course(s) related to EACH Keystone Exam on which less than Proficient	Pass concurrent course (Algebra I)	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET (requires each marked YES or N/A)	
	Pass concurrent course (Biology)	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A		
	Pass concurrent course (Literature)	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A		
Demonstrate acceptance into 4-yr institution of higher education and ability to enroll in college-level work	Unconditional acceptance letter	<input type="checkbox"/> YES	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET (requires one marked YES)	
	General admittance letter	<input checked="" type="checkbox"/>		
	College-level coursework enrollment OR equivalent placement test results OR equivalent graduate profile	<input checked="" type="checkbox"/>		<input type="checkbox"/> YES (requires both checked)
Successfully complete a Pre-Apprenticeship Program	Passing grade and program completion verified by adult supervisor	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET		
ALL THREE CORE REQUIREMENTS MARKED MET			<input type="checkbox"/> SATISFIED (proceed to next row) <input type="checkbox"/> NOT SATISFIED (review options)	
MINIMALLY ONE EVIDENTIARY REQUIREMENT MARKED MET			<input type="checkbox"/> SATISFIED (PATHWAY COMPLETE) <input type="checkbox"/> NOT SATISFIED (review options)	

DECISION MATRIX C	
Are you planning to enter the workforce or military upon graduation?	<input type="checkbox"/> YES (consider Evidence-Based Pathway) <input type="checkbox"/> NO (see next question)
Are you enrolled in an internship or cooperative education program or have you received an Industry-Recognized credential?	<input type="checkbox"/> YES (consider Evidence-Based Pathway) <input type="checkbox"/> NO (see next question)
Are you planning to attend a less than 4-year institution of higher education?	<input type="checkbox"/> YES (consider Evidence-Based Pathway) <input type="checkbox"/> NO (see next question)
Are you able to meet NCAA Division II academic requirements?	<input type="checkbox"/> YES (consider Evidence-Based Pathway) <input type="checkbox"/> NO (review options)

Pathways to Graduation

Guide to Meeting Statewide Requirements for High School Graduation

TIP: Review all twelve evidentiary requirements before selecting options as some pieces of evidence may have been attained previously (e.g., a score of Proficient or Advanced on a Keystone Exam).

EVIDENCE-BASED PATHWAY			
CORE REQUIREMENTS			
ALGEBRA 1 KEYSTONE EXAM	<i>Scaled score of 1500 or higher</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET <i>(requires one marked YES)</i>
	<i>Grade-based requirements satisfied</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO	
BIOLOGY KEYSTONE EXAM	<i>Scaled score of 1500 or higher</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET <i>(requires one marked YES)</i>
	<i>Grade-based requirements satisfied</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO	
LITERATURE KEYSTONE EXAM	<i>Scaled score of 1500 or higher</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET <i>(requires one marked YES)</i>
	<i>Grade-based requirements satisfied</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO	
EVIDENTIARY REQUIREMENTS: SECTION 1			
Meet or exceed established score on any SAT Subject Test(s)	<i>SAT Subject Test score of 630 or higher</i>	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET	
	<i>2nd SAT Subject Test score of 630 or higher</i>	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET	
	<i>3rd SAT Subject Test score of 630 or higher</i>	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET	
Meet or exceed established score on the ACT WorkKeys	<i>NCRC Silver Level or higher</i>	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET	
Score 3 or higher on any AP Exam(s)	<i>AP Exam score 3 or higher</i>	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET	
	<i>2nd AP Exam score 3 or higher</i>	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET	
	<i>3rd AP Exam score 3 or higher</i>	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET	
Score 3 or higher on any IB Exam(s)	<i>IB Exam score 3 or higher</i>	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET	
	<i>2nd IB Exam score 3 or higher</i>	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET	
	<i>3rd IB Exam score 3 or higher</i>	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET	
Successfully complete concurrent enrollment course(s) or approved postsecondary course(s)	<i>Pass course</i>	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET	
	<i>Pass 2nd course</i>	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET	
	<i>Pass 3rd course</i>	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET	
Demonstrate acceptance into an other-than 4-yr institution of higher education and ability to enroll in college-level work	<i>Unconditional acceptance letter</i>	<input type="checkbox"/> YES	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET <i>(requires one marked YES)</i>
	<i>General admittance letter</i>	<input checked="" type="checkbox"/>	
	<i>College-level coursework enrollment</i> <i>OR equivalent placement test results</i> <i>OR equivalent graduate profile</i>	<input checked="" type="checkbox"/> <input type="checkbox"/>	
Attain Industry-Recognized	<i>Earn credential</i>	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET	

Pathways to Graduation

Guide to Meeting Statewide Requirements for High School Graduation

Credential from approved provider(s)	Earn 2 nd credential	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET
	Earn 3 rd credential	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET
EVIDENTIARY REQUIREMENTS: SECTION 2		
Score Proficient or Advanced on any Keystone Exam(s)	Score 1500 or higher on Algebra 1	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET
	Score 1500 or higher on Biology	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET
	Score 1500 or higher on Literature	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET
Successfully complete approved service-learning project(s)	Project completion verified by adult supervisor	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET
	2 nd Project completion verified by adult supervisor	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET
Successfully complete internship or cooperative program(s)	Program completion verified by adult supervisor	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET
	2 nd Program completion verified by adult supervisor	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET
Meet the NCAA Division II academic requirements for college-bound athletes	Academic standing verified by school administrator	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET
Provide a letter/form guaranteeing full-time employment or military enlistment papers	Letter/form/enlistment papers verified by school administrator	<input type="checkbox"/> MET <input type="checkbox"/> NOT MET
ALL THREE CORE REQUIREMENTS MARKED MET		<input type="checkbox"/> PARTIALLY SATISFIED (proceed to next row) <input type="checkbox"/> NOT SATISFIED (review options)
MINIMALLY ONE EVIDENTIARY REQUIREMENT MARKED MET IN SECTION 1		<input type="checkbox"/> PARTIALLY SATISFIED (proceed to next row) <input type="checkbox"/> NOT SATISFIED (review options)
A TOTAL OF THREE EVIDENTIARY REQUIREMENTS MARKED MET (UP TO TWO PERMISSIBLE FROM SECTION 2)		<input type="checkbox"/> SATISFIED (PATHWAY COMPLETE) <input type="checkbox"/> NOT SATISFIED (review options)

Pathways to Graduation

Guide to Meeting Statewide Requirements for High School Graduation

Sample Pathway Progress Log

[STUDENT NAME]

[PAsecureID]

DATE	ACTIVITY TYPE <ul style="list-style-type: none">▪ <i>student conference</i>▪ <i>parent communication</i>▪ <i>colleague consultation</i>▪ <i>other (specify)</i>	ACTIVITY SUMMARY	NEXT STEPS & TIMEFRAME <i>What needs to be done?</i> <i>- by whom: student, counselor, other (specify)?</i> <i>- by when?</i>

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Appendix C:

NCAA College Requirements & Eligibility

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ONE OPPORTUNITY. LIMITLESS POSSIBILITIES.

If you want to compete in NCAA sports, you need to register with the NCAA Eligibility Center at eligibilitycenter.org. Plan to register before your freshman year of high school (or year nine of secondary school). Visit on.ncaa.com/RegChecklist to help guide you through the registration process.

ACADEMIC REQUIREMENTS

To study and compete at a Division I or II school, you must earn 16 NCAA-approved [core-course credits](#), earn a minimum 2.3 (Division I) or 2.2 (Division II) [core-course GPA](#) and submit your final transcript with proof of graduation to the Eligibility Center.

CORE-COURSE REQUIREMENTS

DIVISION I

Earn 16 NCAA-approved core-course credits in the following areas:

ENGLISH	MATH (Algebra I or higher)	SCIENCE (Including one year of lab, if offered)	ADDITIONAL (English, math or science)	SOCIAL SCIENCE	ADDITIONAL COURSES (Any area listed to the left, world language or nondoctrinal religion/philosophy)
4 years	3 years	2 years	1 year	2 years	4 years

For Division I, 10 of your 16 NCAA-approved core-course credits must be completed before the start of your seventh semester, including seven in English, math or science.

DIVISION II

Earn 16 NCAA-approved core-course credits in the following areas:

ENGLISH	MATH (Algebra I or higher)	SCIENCE (Including one year of lab, if offered)	ADDITIONAL (English, math or science)	SOCIAL SCIENCE	ADDITIONAL COURSES (Any area listed to the left, world language or nondoctrinal religion/philosophy)
3 years	2 years	2 years	3 years	2 years	4 years

GRADE-POINT AVERAGE

The Eligibility Center calculates your [core-course GPA](#) based on the grades you earn in NCAA-approved core courses.

- » Division I requires a minimum 2.3 core-course GPA.
- » Division II requires a minimum 2.2 core-course GPA.

DIVISION III

While [Division III schools](#) set their own admissions and academic requirements, [international student-athletes](#) (first-year enrollees and transfers) who initially enroll full time at a Division III school on or after Aug. 1, 2023, are required to complete an [Amateurism-Only Certification account](#). Contact the Division III school you plan to attend for more information about its academic requirements.

**More information regarding the impact of COVID-19 can be found at on.ncaa.com/COVID19_Spring2023.*



GRADE 9 REGISTER

- » Start planning now! Register for a free Profile Page account at eligibilitycenter.org for information on NCAA initial-eligibility requirements.
- » Find your high school's list of NCAA-approved core courses at eligibilitycenter.org/courselist to ensure you are taking the right courses, and earn the best grades possible!

GRADE 10 PLAN

- » If you are being actively recruited by an NCAA school and have a Profile Page account, **transition** it to the right **Certification account**.
- » Monitor the **task list** in your NCAA Eligibility Center account for next steps.
- » At the end of the school year, ask your high school counselor from each school you have attended to upload an official transcript to your Eligibility Center account.
- » If you fall behind academically, ask your high school counselor for help finding **approved courses** you can take.

GRADE 11 STUDY

- » Ensure your **sports participation** information is correct in your Eligibility Center account.
- » Check with your high school counselor to make sure you are on track to complete the required number of NCAA-approved **core courses** and graduate on time with your class.
- » At the end of the school year, ask your high school counselor from each school you have attended to upload an official transcript to your Eligibility Center account.

GRADE 12 GRADUATE

- » **Request your final amateurism certification** beginning April 1 (fall enrollees) or Oct. 1 (winter/spring enrollees) in your Eligibility Center account at eligibilitycenter.org.
- » Complete your final NCAA-approved **core courses** as you prepare for graduation.
- » After you graduate, ask your high school counselor to upload your final **official transcript** with proof of graduation to your Eligibility Center account.

*More information regarding the impact of COVID-19 can be found at on.ncaa.com/COVID19_Spring2023.

How to plan your high school courses to meet the 16 core-course requirement:

$$4 \times 4 = 16$$

9TH GRADE

- (1) English
- (1) Math
- (1) Science
- (1) Social Science and/or additional

4 CORE COURSES

10TH GRADE

- (1) English
- (1) Math
- (1) Science
- (1) Social Science and/or additional

4 CORE COURSES

11TH GRADE

- (1) English
- (1) Math
- (1) Science
- (1) Social Science and/or additional

4 CORE COURSES

12TH GRADE

- (1) English
- (1) Math
- (1) Science
- (1) Social Science and/or additional

4 CORE COURSES

CONTACT THE NCAA ELIGIBILITY CENTER

U.S. and Canada (except Quebec):
877-262-1492 - Monday-Friday,
9 a.m. to 5 p.m. Eastern time

SEARCH FAQ:

ncaa.org/studentfaq

[@ncaaec](https://twitter.com/ncaaec) [@playcollegesports](https://www.instagram.com/playcollegesports) [@ncaaec](https://www.facebook.com/ncaaec)



ELIGIBILITY CENTER

NCAA is a trademark of the National Collegiate Athletic Association. January 2023.

Appendix D:

4-year Academic Planning Worksheets

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How to Create a Four-Year Plan for High School

Step 1: Find Out the Graduation Requirements

Every high school has a set, minimum curriculum that students must complete in order to earn their diploma. We recommend you review the West Allegheny High School Program of Studies to be sure you are meeting the requirements.

Here are the Top 5 questions to ask when creating your four-year plan. You can find the answers to most of these questions in the West Allegheny High School Program of Studies. If you need help, you can ask your school counselor:

1. How many credits in each subject do I need in order to graduate on time?
2. What additional graduation requirements exist?
3. Are there any courses I can take for college credit?
 - If so, what are the requirements, and how can I find out whether the credits will transfer?
4. What are my best course options if I want to go to the workforce or into the military?
5. How often should I check in to make sure I'm on the right track?

Step 2: Ask Yourself the Right Questions & Perform a Self-Evaluation

While it is important to know the practical steps you need to take toward graduation, you know yourself and your own interests better than anyone. Start asking yourself questions about who you are, what you want, and what you need to do to reach your goals. These questions may help direct you to the Career and College Pathway that is the best fit for you.

Check in with yourself, and consider talking through your self-evaluation with your parents, school counselor, teachers, coaches, mentors, or older siblings.

Here are the Top 10 Questions to Ask Yourself:

1. Where do I want to be eight years from now?
2. What type of lifestyle do I wish to live?
3. What are my strengths and weaknesses?
4. What is my dream career?
5. What's my plan B?
 - Second career choice
 - Second major choice

6. What am I looking for in a college or employer?
7. What type of student does my preferred college(s) tend to enroll or my preferred employer tend to hire, and how can I develop myself during high school so that I would be a good candidate?
8. What is my high school GPA goal?
9. Will I need scholarships for college? If so, what kinds should I be looking for, and what do I need to do in order to qualify?
10. What type of support (financial, emotional, etc.) will I need to make the transition to college or the workforce?

The honest answers to these questions will push you to be realistic about your goals and help you determine the best path to take. Knowing the areas in which you excel and how they align with your interests will help you narrow down the choices to make, the academic levels which will be most helpful, the electives to take, and the activities on which to focus.

Step 3: Choose Electives that Interest You & Help You Stand Out to Colleges or Employers

After you wrap your head around your graduation requirements, start to brainstorm which electives you might want to take. Electives help you explore areas of study that you might be interested in and dive more deeply into subjects that may only be introduced briefly in your core classes.

Use your elective options to learn what you like and dislike and where you excel. Your choices in elective courses show college admissions counselors and employers what you are passionate about, the type of student you are, and how well you can manage a busy schedule. Taking interesting, well-planned electives shows that you take education seriously, so ask your school counselor and upperclassmen about any special electives that might be a good fit for you as well as reviewing the recommended electives listed for each Career and College Pathway.

Adapted from an article on the Colleges of Distinction website

<https://collegesofdistinction.com/advice/how-to-create-a-four-year-plan-for-freshmen/>

West Allegheny High School Graduation Planning Worksheet

It is encouraged that families use this form to assist in planning a comprehensive educational high school plan.
Please refer to the graduation requirements while completing this form. All students are required to schedule and maintain a minimum of 7.00 credits each academic year earning a total of at least 26.25 total credits.

Career and College Pathway/s of Interest: _____

Career/s of Interest: _____

Subject	Credits Required	Grade	Courses Completed/ To be Completed	Year	Total
English Language Arts	4	9			
		10			
		11			
		12			
Mathematics	4	9			
		10			
		11			
		12			
Science	4 (3 if student attends Parkway CTC)	9			
		10			
		11			
		12			
Social Studies	4 (3 if student attends Parkway CTC)	9			
		10			
		11			
		12			
PE/Health	1 (0.5 Health required)	9			
		10			
Electives	9.25				
Graduation Requirements: Pathways to Graduation				Highest Score	Proficiency Level
ACT 158 Requirement: Keystone Proficiency	Algebra 1				
	Biology				
	Literature				
ACT 158 Requirement: Alternate Pathway (if Keystone Proficiency is not met, one of the following Pathways must be met)	Keystone Composite				
	CTC Concentrator			N/A	
	Alternate Assessment				
	Evidence Based			N/A	
Graduation Requirements: Career Readiness, Industry-Based Learning, & Civics Exam				Completed	
Career Readiness	Civics Exam (Taken during American Government or AP US Government course)				
	Career and Education Work Standards Portfolio (8 pieces of evidence with at least 2 per grade level maintained on Canvas)				
	Industry Based Learning Indicator				
College AND Career Readiness				Completed	
College Readiness	GPA 2.8 and one of the following:				
	Earn an A, B, C in an AP Course and/or Pass an AP exam with 3+				
	Earn an A, B, C in Algebra 2				
	Earn an A, B, C in a Dual or Concurrent College English or Math Course				
	Earn a qualifying Score on SAT Exam Math (530) Reading/Writing (480), Act Exam Eng(18), Reading (22), Science (23), Math (22) or College Readiness Placement Assessment				
Career Readiness	90% or above attendance rate and one or more of the following:				

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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.

Career and College

Pathway of interest: _____ Career Interest: _____

<u>9th Grade</u>			
Course Number	Course Title		Credits
English			
Math			
Science			
Social Studies			
Health/PE			
Elective			
Elective			
Elective			
Elective			
Total Credits			

<u>10th Grade</u>			
Course Number	Course Title		Credits
English			
Math			
Science			
Social Studies			
Health/PE			
Elective			
Elective			
Elective			
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.

Career and College

Pathway of interest: _____ Career Interest: _____

<u>11th Grade</u>			
Course Number	Course Title		Credits
English			
Math			
Science			
Social Studies			
Health/PE			
Elective			
Elective			
Elective			
Elective			
Total Credits			

<u>12th Grade</u>			
Course Number	Course Title		Credits
English			
Math			
Science			
Social Studies			
Health/PE			
Elective			
Elective			
Elective			
Elective			
Total Credits			

Appendix E:

Waiver Request Forms

- Academic Waiver Request
- Lunch Waiver Request

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West Allegheny High School

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/guardian believes that their student can be successful in a course that the student is not recommended for, they may submit an Academic Waiver Request to the academic principal for review. Submission of an Academic Waiver Request does not guarantee the class will be added or changed. Requests will be reviewed, and the parent/guardian and student 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: Q1 _____ Q2 _____ Q3 _____ Q4 _____ Final _____

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 THE THIRD WEEK IN JUNE

Parent Signature: _____ Date: _____

Student Signature: _____ Date: _____

PRIOR TO SUBMITTING, PLEASE REVIEW THE COMPLETE SCHEDULE CHANGE PROCEDURES IN THE PROGRAM OF STUDIES.

☐

APPROVED

☐

NOT APPROVED

Academic Principal Signature: _____ Date: _____

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West Allegheny High School

Lunch Waiver Request

Students may apply to have their lunch period waived for three or six days with parent/guardian approval in the event of a schedule conflict, desire to take additional courses, to add Keystone Remediation, or to add a resource to their schedule.

Student Name: _____ Present Grade Level: _____

☐ I request to waive 3 days of lunch

☐ request to waive 6 days of lunch

Please describe the reason for your request to waive your lunch period (i.e. schedule conflict, prefer to take additional classes related to career choice, etc.).

**ALL WAIVER REQUESTS MUST BE SUBMITTED
BY THE THIRD WEEK IN JUNE**

Parent Signature: _____ Date: _____

Student Signature: _____ Date: _____

PRIOR TO SUBMITTING, PLEASE REVIEW THE COMPLETE SCHEDULE CHANGE PROCEDURES IN THE PROGRAM OF STUDIES.

☐

APPROVED

☐

NOT APPROVED

Academic Principal Signature: _____ Date: _____

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Appendix F:

Early Release Guidelines and Application

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West Allegheny High School

Early Release/Late Start Request

Guidelines

Senior students are eligible for early release or late start based on dual enrollment, employment, or for special circumstances. Junior and sophomore students are eligible for early release for dual enrollment purposes only. The early release/late start program will only be used for students who are making adequate progress toward graduation requirements and whose class schedule works within the timeframe requested. **All early release or late start requests require review and approval by an administrator.** Students are expected to follow their existing schedule until notified by their School Counselor.

Situation #1: DUAL ENROLLMENT REQUEST (sophomores/juniors/seniors)

- Student is enrolled in at least one class through the dual enrollment program (or another administratively approved college or university program).
- Student must file a copy of each semester's class schedule with the School Counselor.

Situation #2: WORK RELEASE REQUEST (seniors only)

- Student is employed 10 or more hours a week.
- Students must submit their work schedule or a copy of their pay stub to their School Counselor on a monthly basis.
- Student may also need to complete a *Request for Fewer Than 7 Credits Form (seniors only)*.

Situation #3: SPECIAL CIRCUMSTANCES (ALL require review by administration)

- Student's parent/guardian must provide a detailed explanation of the special circumstance.
- Student may also need to complete a *Request for Fewer Than 7 Credits Form (seniors only)*.

TERMINATION POLICY: If release time is granted and the student's employment, college classes, or special circumstances cease for any reason, the student must notify the school and return to full time attendance at WAHS immediately. If a student is failing classes or not meeting other requirements required for graduation, release time will be terminated. Student progress will be monitored monthly for continued employment or college attendance.

<input type="checkbox"/>	Dual Enrollment	College/University:	_____
		Fall Course(s):	_____
		Spring Course(s):	_____
<input type="checkbox"/>	Work	Employer:	_____
		Hours per week:	_____
<input type="checkbox"/>	Special Circumstance	Description:	_____ _____ _____

Additional Details: _____

<input type="checkbox"/>	Early Release	Period Requested to Leave:	_____
<input type="checkbox"/>	Late Start	Period Requested to Start	_____

Student Agreement

I agree to submit all of the required paperwork for Early Release or Late Start including a copy of my class schedule, work schedule, and any other required forms in the Guidance Office. I will make all of the necessary appointments to meet with my School Counselor if my schedule needs to be reviewed. I recognize that failure to notify the school of any changes in dual enrollment, employment, or special circumstances status will result a removal of the Early Release/Late Start.

Full Name: _____ Grade: _____

Street Address: _____ Home #: _____

City, State, Zip: _____ Cell #: _____

Post-Secondary Goal: _____

Student Signature: _____ Date: _____

Parent/Guardian Agreement

I grant permission for my child to be released from school early or arrive to school late while in the Early Release/Late Start Program. I recognize that failure to notify the school of changes in dual enrollment, work, or special circumstances status will result in removal from the Early Release/Late Start Program.

Parent/Guardian Name: _____ Relationship: _____

Parent/Guardian Signature: _____ Date: _____

Appendix G:

Schedule Change Request Form

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West Allegheny High School

Schedule Change Request

For Office Use Only:

Date Received: _____

Admin Approved: _____

Date Changed: _____

Please complete the following information using our online schedule change process.

Click on this link: <https://forms.gle/CzQhwngiF92Zqkxy9> to complete your change request.

Name: _____ Grade: _____ Counselor: _____

Current Post-Secondary Goal: _____

Phone #: _____ Email: _____

Requested Drop: _____ Requested Add: _____

Please select the reason for your requested schedule change to be considered.

All students must be enrolled in a minimum of 7.00 credits throughout the school year unless otherwise approved by administration.

- | | |
|---|---|
| <input type="checkbox"/> **Course Level Change
(AP/ECIHSAs course changes require meeting as well as teacher communication & signatures below)
See back of this form for details, grading policy, and timelines. | <input type="checkbox"/> Adjustments for: IEP, 504, ECIHSA, AP Capstone Diploma, CCBC Aviation Academy, PTC Health Sciences Academy, Parkway, Early Release (<i>please circle appropriate reason</i>) |
| <input type="checkbox"/> Change in interests or post-secondary goals
Please identify: | <input type="checkbox"/> Change based on summer enrichment or credit recovery course grade |
| <input type="checkbox"/> Dropping a class to add a study hall or study skills | <input type="checkbox"/> A computer error – example: unbalanced schedule – multiple study halls or missing lunch |
| <input type="checkbox"/> Other Changes: If you do not meet any of the above allowable schedule change criteria, you may appeal to the administration by writing a persuasive letter of request. <ul style="list-style-type: none">• Provide, in paragraph form, insight into the reason(s) you originally requested the course, reason(s) why you want to take the new course, as well as an explanation of why you think an exception to the designated scheduling process should be made.• Although the essay may meet the criteria, changes will be granted based upon seat availability. | |

Schedule changes are not in effect until you receive a revised schedule.

Summer Schedule Change Requests

All schedule change requests for the upcoming school year require a parent signature and must be submitted to the high school Guidance Office via the official schedule change request form by June 8th, 2023.

School Year Schedule Change Procedures

- Students must exercise caution before changing/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 administration through an approved academic plan.

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 space is available in the impacted classes.
2. Students are responsible for making up any missed work in the new elective course.
3. If the original elective course is dropped within this timeframe, it will NOT appear on the student's transcript.

Academic Level Change Procedures

1. Academic level CHANGE REQUESTS will be considered through the 12th day of school. AP/ECIHS course change requests will require an academic meeting and administrative approval. No academic level change will be considered without teacher input.
2. In the event that an ACADEMIC LEVEL change is approved the student's grades will transfer to the new course and the student is responsible for making up any required work.
3. Students are expected 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 (including summer assignments), seeking extra help, and have met all other conditions established by the teacher.
4. 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 space is available in the impacted classes.
5. If the original academic course is changed within this timeframe, it will NOT appear on the student's transcript.

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.

Appendix H:

Fewer Than 7 Credits Request Form

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West Allegheny High School

Request for Fewer Than 7 Credits

12th Grade Only

Students must earn a minimum of 26.25 total credits to earn a West Allegheny High School diploma. It is the student's and parent's responsibility to know the requirements for promotion and graduation and to make plans accordingly. Students in grades 9-11 are required to schedule and maintain a minimum of 7.00 credits each academic year. However, students in their senior year may request to take fewer than 7 credits as long they are scheduled to meet the graduation requirement of 26.25 credits.

Student Name _____

What is your post-secondary goal (*plans for after graduation*)?

- _____ Attend a 4-year college or university
_____ Pursue a 2-year associate degree or attend a technical/specialized training school
_____ Work full-time
_____ Enter the military (*Army, Navy, Airforce, Marines, etc.*)
_____ Undecided

Student Initials	Parent Initials	
		I have considered the impact this choice will have on my post-secondary plans including college/university admission, military commitment, entrance into an apprenticeship program, etc.
		I have reviewed the attached information detailing the requirements for graduation and confirm that the schedule I am requesting will ensure I meet these requirements.

If approved for fewer than 7 credits, when would you prefer your classes to be? (please check one below):

☐ Morning ☐ Afternoon ☐ No Preference

**ALL WAIVER REQUESTS MUST BE SUBMITTED
BY THE THIRD WEEK IN JUNE**

Parent Signature: _____ Date: _____

Student Signature: _____ Date: _____

PRIOR TO SUBMITTING, PLEASE REVIEW THE COMPLETE SCHEDULE CHANGE PROCEDURES IN THE PROGRAM OF STUDIES.

☐ APPROVED ☐ NOT APPROVED

Academic Principal Signature: _____ Date: _____

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Appendix I:

Independent Study Guidelines and Application

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West Allegheny High School

Independent Study Program

Guidelines

Participating in an Independent Study program requires an effort and commitment on the part of the student, parent, Mentor Teacher and school district to strive to meet individual educational interests. Parents/guardians and students must realize the following before considering an Independent Study program.

1. The school district will only consider an Independent Study course if the student is able to meet all requirements for graduation as outlined in the Program of Studies.
2. Independent Study courses are available to **Junior and Senior** students. Freshmen and Sophomore students may be offered an Independent Study course if a scheduling conflict exists.
3. 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. **Independent study courses cannot replace an existing course.**
4. All Independent Study courses require a **Mentor Teacher** from the West Allegheny School District as approved by the High School Administration.
5. All Independent Study course requests must include:
 - a) Independent Study program application
 - b) Signatures of Parent/Guardian, Mentor Teacher, School Counselor
 - c) A goal statement outlining each of the responsibilities and times when study will be done
 - d) Student transcript
6. All Independent Study courses must be approved by the High School Administration.
7. No transportation (if needed) for the Independent Study will be provided by the school district.
8. Independent studies will be graded on a Pass/Fail basis but will not be applied to the student's QPA. Students will be given credit toward graduation requirements.
9. The schedule change procedures contained within the West Allegheny High School Program of Studies apply to all Independent Study courses.
10. The High School Academic Principal shall act as final authority regarding all Independent Study courses and a student's eligibility for one.

Requirements

The purpose of the Independent Study program is to allow students to create an opportunity to accelerate themselves at a pace that is unavailable in current classroom curriculum. The focus of an Independent Study is to allow students to create a class not currently offered in the West Allegheny Program of Studies or that goes above and beyond the coursework a student has already taken in an existing subject area. The student, parent/guardian, and Mentor Teacher should consider whether the Independent Study course would be able to meet the following criteria:

1. **Acceleration:** performs at a higher level of proficiency than normal
2. **Communication:** includes a variety of communication techniques
3. **Community Involvement:** impacts the WA community in some way

4. **Enrichment:** pursue a study beyond the normal curriculum
5. **Presentation:** shall culminate in a final project chosen by the mentor/student to display knowledge gained
6. **Technology:** incorporates the utilization of the latest technology available

Benchmarks

To successfully participate in the Independent Study Program, the student will:

1. **Follow** the guidelines for Independent Study programs.
2. **Complete** the Independent Study program application.
3. **Meet** with the School Counselor prior to the start of the project.
4. **Meet** routinely with the Mentor Teacher throughout the school year.

Mentor Responsibilities

1. **Assist** in developing performance objectives reflecting long and short-term goals.
2. **Collaborate** with Administration and the student to provide clear expectations and criteria for success.
3. **Evaluate** using Pass/Fail grades at the end of each grading period. Measurable objectives must be examined at least quarterly.
4. **Advise** and guide in the completion of all presentation requirements.

Steps to Apply

1. Obtain an Independent Study Application from your School Counselor.
2. Read through the Guidelines and Requirements on the previous two pages to be sure you understand what is involved in an Independent Study.
3. Find a Mentor Teacher. This should be a teacher of the subject in which you have an interest in studying.
4. Once you have found a Mentor Teacher, have the teacher help you complete the page titled Independent Study Outline Statement of Goals. You must give a title to the Independent Study. Your teacher must assist you with writing detailed goals and/or lessons for each nine weeks.
5. Complete the Independent Study Application. **Be sure you have all appropriate signatures in the order listed.**
6. Bring the completed Application and Outline Statement of Goals pages to your School Counselor. The School Counselor will review and submit completed forms to an administrator for final approval*. Incomplete forms will be returned to the student.
7. If the Independent Study is approved, the student's School Counselor will contact the student and add it to his/her schedule. **The student may not begin the Independent Study until this occurs.** If it is not approved, the student may need to make another course selection.

*Reminder: Independent Studies cannot replace an existing class.



West Allegheny High School

Independent Study Program

Application

Student Name: _____ Present Grade Level: _____

Parent/Guardian Name: _____

Mentor Teacher Name: _____

Title of Course: Independent Study in: _____

Location (Room #) of Independent Study: _____

Period _____ Rotation Days: _____ Total Number of Credits: _____

Goal of Independent Study: _____

Future Plans/Career Interest: _____

REQUIRED SIGNATURES

Parent Signature: _____ Date: _____

Student Signature: _____ Date: _____

Teacher Mentor: _____ Date: _____

Counselor: _____ Transcript Attached _____

PRIOR TO SUBMITTING, PLEASE REVIEW THE COMPLETE SCHEDULE CHANGE PROCEDURES IN THE PROGRAM OF STUDIES.

☐

APPROVED

☐

NOT APPROVED

Academic Principal Signature: _____ Date: _____



West Allegheny High School

Independent Study Program

Outline Statement of Goals

Student Name: _____ Present Grade Level: _____

Title of Course: Independent Study in: _____

BREAKDOWN OF OVERALL GOALS FOR EACH MARKING PERIOD*

*Attach a separate sheet if necessary

<i>FIRST M.P.</i>	
<i>SECOND M.P.</i>	
<i>THIRD M.P.</i>	
<i>FOURTH M.P.</i>	

Appendix J:

Courses by Level of Rigor

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West Allegheny High School

Courses by Level of Rigor

West Allegheny High School offers 153 in person courses and 102 courses through our virtual academy (WAVA). The table below displays the courses based on their level of rigor.

	Tier 1 courses are accessible to all learners and consists of built-in supports to guide students as they engage with new content.	Tier 2 courses are progressively more rigorous than a Tier 1 course. These courses allow students to enter into a more rigorous course while providing a balance of in-classroom and out of classroom expectations. These courses predominately include honor's and entry level college courses.	Tier 3 courses are the most rigorous courses students may engage in while at WAHS. These courses advance student learning at the college level. Most tier 3 courses are Advanced Placement and 2nd year and above college level courses.
Department	Tier 1	Tier 2	Tier 3
ENGLISH LANGUAGE ARTS	English 9	Honors English 9	AP English Language & Composition
	English 10	Honors English 10	AP English Literature & Composition
	English 11	College Readiness English 11	Classic & Modern Literature
	English 12	College Readiness English 12	AP Research
	Intro to Creative Writing (S - WAVA ONLY)	Film Studies	
		Oral Communications	
		Creative Writing	
MATHEMATICS		Gothic Literature	
	Introduction to Algebra	Honors Early College Algebra 2	AP Precalculus
	Algebra 1	Honors Trigonometry & Precalculus	AP Calculus AB
	Algebra 2	Personal Finance	AP Statistics
	Geometry		AP Calculus BC
SCIENCE	Discrete Math		AP Economics
	Biology with Lab	Honors Biology with Lab	AP Biology
	Conceptual Chemistry	Honors Chemistry with Lab	AP Chemistry
	Conceptual Physics	Physics	AP Physics 1
	Forensic Science	Honors Anatomy & Physiology	AP Physics 2
	Introduction to Astronomy (S – WAVA ONLY)	Health Sciences (WAVA ONLY)	
		Introduction to Marine Biology (S – WAVA ONLY)	
SOCIAL STUDIES		Introduction to Veterinary Science (S2 – WAVA ONLY)	
		Forestry & Natural Resources (S1 - WAVA ONLY)	
	U.S. History	Honors U.S. History	AP United States History (WAVA ONLY)
	American Government	Honors American Government	AP US Government & Politics
	World Cultures (with Career Seminar)	Honors Psychology & Sociology	AP World History
	Current Affairs (S)	Honors Holocaust & Genocide Studies	AP Seminar
	Sociology of Sports (S)	Criminal Justice & Investigations	AP United States History (WAVA ONLY)
	Introduction to Military Careers (S – WAVA ONLY)	Honors African American & Multicultural Studies	AP Psychology
BUSINESS, COMPUTER, & INFORMATION TECHNOLOGY		Introduction to World Religions (S – WAVA ONLY)	AP Seminar
		Women's Studies (S – WAVA ONLY)	
		Intro to Archaeology (S - WAVA ONLY)	
	Principles of Business	AP Computer Science Principles	Business, Law, & Society
	Technology Skills	Intro to Cybersecurity	Computer Networking
	Yearbook	Introduction to Game Design	Cybersecurity with Risk Management
	HS Career Discovery (S - WAVA ONLY)	Multimedia Graphics	3D Modeling & Animation
	Sports & Entertainment Marketing (S1 - WAVA ONLY)	Marketing	2D/3D Game Development
		Intro to Data Analytics with Python	Game Production & Marketing
		International Business (S2 - WAVA ONLY)	Virtual Reality
ENGINEERING & TECHNOLOGY EDUCATION			Management
			Financial Accounting
			Managerial Accounting
			AP Computer Science A
			Programming in C# & C++
	Principles of Technology	Manufacturing I	
	Architectural Design	Home Systems	
	Manufacturing Technology II	Digital Electronics	
	Do It Yourself (DIY)	Fluid Systems & Motor Control	
	CADD I	Power Systems	
	Environmental Sustainability	Drawing & Design for Engr & Arch	
	Media Arts	CADD II	
	Technical Theatre: Set Building – 3 day	CADD III	
	Foundations of Green Energy (WAVA ONLY)	Introduction to Engineering Design	
	Introduction to Social Media (S – WAVA ONLY)	Engineering Materials	



West Allegheny High School

Courses by Level of Rigor

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Department	Tier 1	Tier 2	Tier 3
FAMILY CONSUMER SCIENCE	Exploring Foods	West A Café	
	Navigating Adulthood (S - WAVA ONLY)	Family and Community Relations	
		Child Development I	
		Child Development II	
		Partners in Exploring Foods	
		Technology for Aspring Teachers	
HEALTH & PHYSICAL EDUCATION	Health & Wellness 9 (S) – 3-day	Aquatics & Lifeguarding	
	Health & Wellness 10 (S) – 3-day	Partners in Physical Education	
	Physical Education	Dance Company – 3-day	
	Physical Conditioning	Exercise Science	
	Dance – 3-day		
JUNIOR ROTC	USMC Junior ROTC I	USMC Junior ROTC IV	
	USMC Junior ROTC II		
	USMC Junior ROTC III		
	Foundations of Leadership		
PERFORMING ARTS	Band - 3 and 6 day options	Wind Ensemble - 3 and 6 day options	
	Jazz Studies: Instrumental – 3-day	Show Choir - 3 and 6 day options	
	Piano – 3-day		
	Guitar – 3-day		
	Chorus - 3 and 6 day options		
	Vocal Studies – 3-day		
	Digital Audio Production 1 - 3 and 6 day options		
	Digital Audio Production 2 - 3 and 6 day options		
	Technical Theatre: Crew – 3-day		
	Music Appreciation (S – WAVA ONLY)		
VISUAL ARTS	Art I	Honors Art IV	AP Drawing
	Art II		
	Art III		
	Ceramics 1		
	Ceramics 2		
	Graphic Design and Illustration I (S – WAVA ONLY)		
	Graphic Design and Illustration II (S – WAVA ONLY)		
	Art Appreciation (S – WAVA ONLY)		
WORLD LANGUAGE	Spanish I	French IV (WAVA ONLY)	HEC Spanish IV
	Spanish II	Mandarin Chinese I (WAVA ONLY)	AP Spanish Language & Culture
	Spanish III	Mandarin Chinese II (WAVA ONLY)	AP French Language & Culture (WAVA ONLY)
	French I (WAVA ONLY)		HEC German IV
	French II (WAVA ONLY)		AP German Language & Culture
	French III (WAVA ONLY)		
	German I		
	German II		
	German III		
	American Sign Language I (S1)		
	American Sign Language II (S2)		