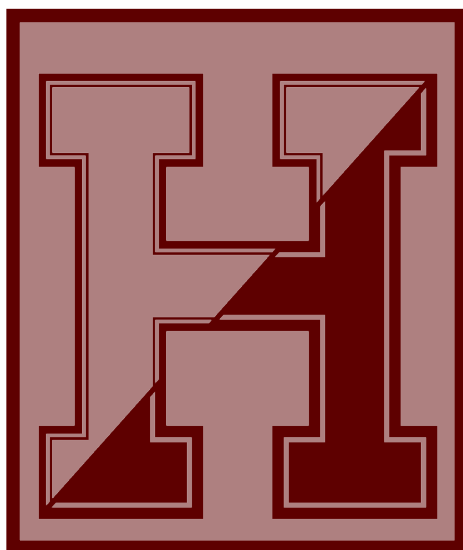




West Chester Area School District
High School Course
Selection Guide 2024-25

Course Selection Parent Kick-Off
Thursday, January 25, 2024



The mission of the West Chester Area School District is to educate and inspire our students to achieve their personal best.

East High School
Counseling Office
484-266-3811

Henderson High School
Counseling Office
484-266-3408

Rustin High School
Counseling Office
484-266-4318

COURSE SELECTION IMPORTANT DATES

Course Selection Parent Kick-Off Thursday, January 25, 2024 @ 6:30 in your home school

2024-25 COURSE SELECTION SCHEDULE OF EVENTS

JANUARY–FEBRUARY

- Digital Course Selection Guides released online - (middle January).
- Administrator/counselor virtual meeting with students (middle to late January).
- Teacher Recommendation Window - January 17 through February 7
- High Schools will have individual Parent Information nights on January 25 @ 6:30 pm.
- On-line Course Selection window – current eighth through eleventh grade students and parents - February 12 through February 23. (View teacher recommendations and select electives).
- High School Spanish Parent Information nights on February 8 @ 6:30 pm at Henderson HS.

MARCH

- Recommendations may be viewed on the Parent Portal. All requests to change course selections and/or recommendations must be submitted to the student's counselor between February 29 and March 8.
- Elective change and course level waiver deadline: March 22

MAY–EARLY AUGUST

- Final level change deadline: May 17
- Master schedule developed
- Course conflicts resolved

LATE AUGUST

- Schedules available through Parent Portal

**Parents may contact or conference with teachers or counselors throughout the process.*

HOW TO USE THE COURSE GUIDE IN 3 EASY STEPS

Step 1

Explore Your Course Options

Take time to read over the course guide. Review the credits you have earned and ask yourself these questions:

- Am I staying on track to graduate?
- Does the course offer college credit?
- Am I curious about the course?
- Can I see myself participating and putting forth my personal best in this course?



Step 2

Talk it Over

When you identify courses you are interested in taking and/or even curious about, talk it over with those closest to you. Share your goals and the course catalog with your parents or guardians. Talk to your school counselor and teachers who know you best.



Step 3

Select Your Courses

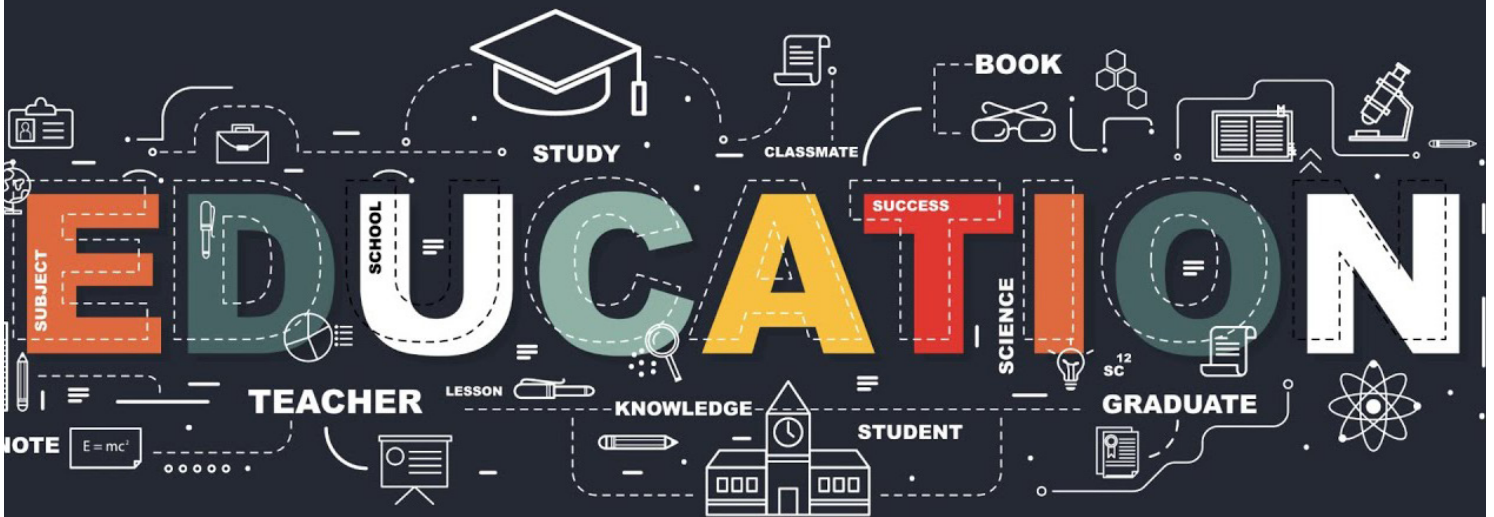
Keep your eye on the course selection timeline. Once you feel comfortable about your course selections, follow the steps to complete your online registration.

TABLE OF CONTENTS

Course Selection IMPORTANT Dates 2	COURSES
How To Use The Course Guide In 3 Easy Steps 3	Art Courses 25
Table of Contents 4	Studio Art Courses 25
ACADEMIC REQUIREMENTS 5	Digital Media Courses 26
Graduation Requirements 6	Advanced Art Options 27
Academic Level Recommendation Guidelines 7	Business/Marketing/Information Technology Courses 28
Neutral Weighting for Elective Courses 7	Career Counseling Courses 30
Grading Scale 8	Computer Science Courses 30
Changing an Academic Level 8	English Courses 31
Recommended Sequence of Courses 9	12th Grade English 32
Promotion Requirements (Minimum) 10	English Electives 33
Course Withdraw Policy 10	Reading Intervention 34
COLLEGIATE OPPORTUNITIES 11	English Electives (Video) 34
Dual Enrollment 12	English Language Department (ELD) 36
Fall Semester Courses 13	Family Consumer Science Courses 37
Spring Semester Courses 13	Child Development 37
Summer Semester Courses 14	Culinary Arts 38
Full Year Courses 14	Health & Physical Education Courses 39
University of Pittsburgh College in HS 15	Health Courses 39
Advanced Placement Courses 16	Physical Education Courses 39
Advanced Placement Courses Offered 16	Mathematics Courses 41
AP Capstone - 2 year Course of Study 16	Music Courses 45
Eligibility at NCAA Colleges 17	Curricular Music Classes 46
CAREER EDUCATION PROGRAM 18	Science Courses 47
Career Education 19	Science Electives 50
Career Education Components 19	Social Studies Courses 52
Work Study Program 20	9th Grade Course Options 52
SPECIALIZED PROGRAMS 21	10th Grade Course Options 52
WC Cyber Program 22	11th Grade Course Options 52
English Language Development Program 23	12th Grade Course Options 53
Gifted Education Program 23	Social Studies Electives 53
	Technology Education Courses 55
	World Language Courses 57
	TECHNICAL COLLEGE HIGH SCHOOL 59
	TCHS Brandywine Campus Courses 59
	Quick Resource Guide to High School Courses 63
	Secondary English Course Sequence 66
	Secondary Mathematics Course Progression 67

ACADEMIC REQUIREMENTS

Course Sequence, Academic Levels, Grading Scale, and Graduation Requirements



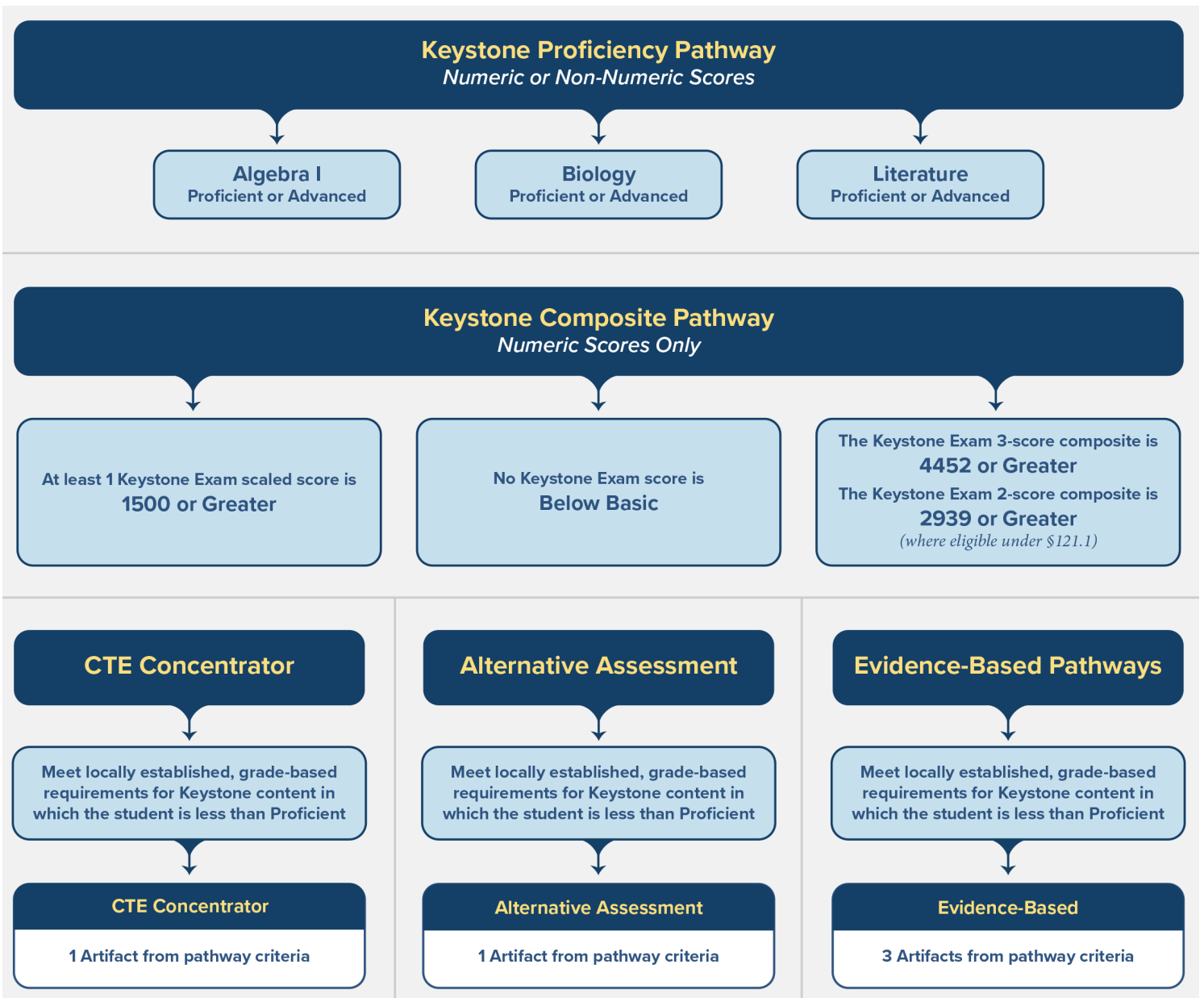
GRADUATION REQUIREMENTS

Beginning with the class of 2023, Chapter 4 Rules and Regulations for the state of Pennsylvania require that students must demonstrate proficiency on the Algebra 1, Biology, and Literature Keystone Exams in order to graduate. Keystone Exams help assess student proficiency of the Pennsylvania Core Standards - standards aligned with expectations for success in college and the workplace. Students will be offered multiple opportunities to take the Keystone Exams throughout their high school careers.

Additionally, Act 158 and Act 6, established alternative pathways to meeting statewide graduation requirements. Visit our website for more details: www.wcasd.net/assessment.

A total of 23.8 credits are required for graduation.

English	4 credits
Social Studies	4 credits
Science	3 credits
Mathematics	3 credits
Arts/Humanities	2 credits
Electives	5 credits
Health/Physical Ed	2.8 credits



ACADEMIC LEVEL RECOMMENDATION GUIDELINES

ADVANCED PLACEMENT/DUAL ENROLLMENT:

The courses are college level classes, that allow students the possibility of earning college credit. Advanced Placement, or AP, are courses that are approved by the College Board. Students who are successful on the end of year AP Exam may be able to earn college credit. Dual Enrollment courses are those that are articulated with one of our partner universities, such as West Chester University. For more information on collegiate offerings, please go to page 11.

ACCELERATED HONORS:

Courses at this level are designed to provide students with access to the most rigorous curriculum that extends well beyond grade level standards. These courses promote both collaborative and self-directed learning through activities and assessments that emphasize written and oral communication.

HONORS:

Honors courses follow a rigorous curriculum prescribed by each department and develop higher-order thinking skills using a challenging pace and enriched content. Both in-class instruction and outside assignments focus on self-directed learning through activities and assessments that emphasize written and oral communication.

CAREER & COLLEGE PREP:

Career & College Prep level courses develop students' essential skills and acquisition of content knowledge within the subject area. This level emphasizes the development of increased rigor through classroom interactions and progressing demands for independent work in preparation for college and career readiness.

NEUTRAL WEIGHTING FOR ELECTIVE COURSES

A number of elective courses at the Career and College Prep (CCP) level receive neutral weight, meaning those courses are not factored into the student's grade point average (GPA) unless a student selects the course to be weighted. The term neutrally weighted appears beneath the course title of all eligible courses. Courses that are neutrally weighted can be found in the following content areas:

- Career & College Prep level Art and Music courses
- Career & College Prep level Family & Consumer Science, Video Production 1, and Technology Education courses
- Career & College Prep level Business and Marketing courses
- Career & College Prep English and Social Studies elective courses
- Career & College Prep level 1 and 2 World Language courses

For neutrally weighted courses to be weighted for a student's GPA, students must complete a Request for [Elective GPA Inclusion form](#) that is available online and in each school counseling office. This form must be signed by the student and parent/guardian. Please note that credits and earned grades with neutrally weighted designation will appear on transcripts.

GRADING SCALE

Grade point averages (GPA) are computed as recommended by the National Association of Secondary School Principals. Students have the option to include elective courses at the Career and College Prep level into the GPA. Grades are weighted in honors, accelerated honors, and AP/Dual Enrollment courses. At the end of each school year, final grades shall be reported on the report card and student transcript on a 100 point scale. All courses, including summer school courses, are included in the GPA with the exception of neutrally weighted elective courses as designated in the course selection guide.

Grade	Career & College Prep	Honors	AP / Accel. Honors/ Dual Enroll
A+ = 97-100	4.3	4.73	5.16
A = 93-96	4.0	4.4	4.8
A- = 90-92	3.7	4.07	4.44
B+ = 87-89	3.3	3.63	3.96
B = 83-86	3.0	3.3	3.6
B- = 80-82	2.7	2.97	3.24
C+ = 77-79	2.3	2.53	2.76
C = 73-76	2.0	2.2	2.4
C- = 70-72	1.7	1.87	2.04
F = below 70	0	0	0

CHANGING AN ACADEMIC LEVEL

MOVING FROM ONE LEVEL TO ANOTHER FROM YEAR TO YEAR:

If a student performs at a consistently high standard within a Career & College Prep, the student should consider moving to a more demanding level in the succeeding school year. Students who find that a higher level course is too challenging should consider dropping a level within that content area for the succeeding year.

CHANGES AFTER THE SCHOOL YEAR BEGINS:

Students who wish to change a course and/or level within a content area must follow the guidelines provided by the Administration. Students may consider a level change (e.g. Honors to Accelerated Honors, Honors to Career & College Prep), after September 13.

- Changes from one elective course to another will not be considered after the elective change deadline of March 22, 2024.
- Once the school year begins, students may add electives if seats are available in the place of study halls, lunches, and otherwise unscheduled periods. Students may not drop one elective course and then later schedule a new course in that unscheduled period.
- Once the school year begins, student schedules will not be adjusted to accommodate course change requests, including requests to add electives, except as described above.
- Requests for particular periods and/or teachers will not be considered to ensure an equitable master schedule.

All **level changes** for full year courses must be completed no later than three weeks after the end of the first semester. All level changes for semester courses must be completed no later than three weeks before the end of the first marking period.

SUGGESTED SEQUENCE OF COURSES

Variations to the sequence of courses below can be arranged through consultation with teachers and counselors. These suggestions refer only to the minimum requirements per grade level. There are eight (8) periods in the school day. Check off each requirement to help remind you of which selections you've already made!

GRADE 9

- English
- Math
- Science
- Social Studies
- Arts & Humanities
- Health Fitness 9
- Elective (Optional)

GRADE 10

- English
- Math
- Science
- Social Studies
- Arts & Humanities
- Health 10/ Physical Education
- Elective (Optional)

GRADE 11

- English
- Math
- Science
- Social Studies
- Physical Education
- Elective
- Elective

GRADE 12

- English
- Social Studies
- Physical Education
- Elective
- Elective
- Elective

SECUENCIA SUGERIDA DE CURSOS

Las variaciones en la secuencia de cursos que se indica a continuación se pueden reglar con una consulta a los profesores y consejeros(as). Estas sugerencias se refieren únicamente a los requisitos mínimos por nivel de grado. Hay ocho (8) períodos en la jornada escolar. Marque cada requisito para ayudarle a recordar las selecciones que ya ha hecho.

GRADE 9

- Inglés
- Matemáticas
- Ciencias
- Ciencias Sociales
- Artes y Humanidades
- Salud y Aptitud Física 9
- Electivo (Opcional)

GRADE 10

- Inglés
- Matemáticas
- Ciencias
- Ciencias Sociales
- Artes y Humanidades
- Salud 10/ Educación Física
- Electivo (Opcional)

GRADE 11

- Inglés
- Matemáticas
- Ciencias
- Ciencias Sociales
- Educación Física
- Electivo
- Electivo

GRADE 12

- Inglés
- Ciencias Sociales
- Educación Física
- Electivo
- Electivo
- Electivo

RECOMMENDED SEQUENCE OF COURSES

SCHEDULING OF COURSES:

Students in grades nine and ten must schedule a minimum of 6 credits including Health and Physical Education. Students in grade eleven must schedule at least 6.4 credits including Physical Education. All seniors must schedule at least 5.4 credits including Physical Education.

In recommending a sequence of courses, it's difficult to arrive at a recommendation which will best serve the needs of all students. Variations to the sequence of courses suggested below can be arranged through consultation with your teacher and counselor. These suggested guidelines refer only to the minimum requirements for graduation. Your counselor has more detailed information regarding recommended courses for college bound students, business students, etc.

The Arts & Humanities requirements may be satisfied by English and Social Science electives and/or by courses in World Language, Art, Music, Family Consumer Science, and Technology Education.

Students are encouraged to take a wide variety of courses to increase their exposure to different skills and possible career pathways.

While not required, students are strongly encouraged to complete four years of study in Math and Sciences, as well as at least three years of world language.

9 TH GRADE - 6.0 CR.	10 TH GRADE - 6.0 CR.	11 TH GRADE - 6.4 CR.	12 TH GRADE - 5.4 CR.
English	English	English	English
Social Studies	Social Studies	Social Studies	Social Studies
Math	Math	Math	Physical Ed.
Science	Science	Science	Elective
Arts & Humanities	Arts & Humanities	Physical Ed.	Elective
Health Fitness 9	Health 10/Physical Ed.	Elective	Elective
Elective (Optional)	Elective (Optional)	Elective	

PROMOTION REQUIREMENTS (MINIMUM)

Grade 10A student who has completed at least 5 credits in Grade 9.

Grade 11.....A student who has completed at least 11 credits in Grades 9 and 10.

Grade 12A student who has completed at least 17 credits in Grades 9, 10, and 11.

COURSE WITHDRAW POLICY

A student may withdraw from a class up to the following time period and receive NO grade:

Full year course2 weeks prior to the end of the second marking period

1st semester course 2 weeks prior to the end of the first marking period

2nd semester course 2 weeks prior to the end of the third marking period

Withdrawal from a course beyond the time specified above:

Student is failingWF grade is recorded and included in the GPA

Student is passing ..WP grade is recorded but not included in the GPA

COLLEGIATE OPPORTUNITIES

Dual Enrollment and Advanced Placement Courses



DUAL ENROLLMENT

The West Chester Area School District dual enrollment program offers juniors and seniors the opportunity to concurrently enroll in a college level course that would be considered a high school elective credit. Upon successful completion, students participating in dual enrollment coursework would receive high school weighting credit, as well as college credit.

The partnering dual enrollment college establishes admittance and other criteria for participation. Students will be responsible for tuition, fees, and course material. More information and dual enrollment pre-approval forms are available from the school counseling department.

WEST CHESTER UNIVERSITY DUAL ENROLLMENT PARTNERSHIP

The West Chester Area School District (WCASD) and West Chester University (WCU) have partnered to offer a menu of pre-approved dual enrollment courses for juniors and seniors. The Fall & Spring Semester classes will be located at the West Chester University Graduate Center and be scheduled for Mondays, Wednesdays, and Fridays from 1:05 pm -1:55 pm. Students will be scheduled to depart from their high school at the conclusion of 6th period and travel by way of their own transportation to the Graduate Center located off of Greenhill Road. Tuition and fees are to be determined. Complete course descriptions are included within the guide. Courses run contingent upon enrollment.

There are 2 Dual Enrollment courses offered on a rotating basis in conjunction with West Chester University. These courses will be taught on site by WCASD teaching staff. For 2023-2024 the course offered will be Advanced Geoscience: Astronomy and Geology. For 2024-2025 the course offered will be Advanced Geoscience: Oceanography and Meteorology. Students successfully completing this full-year college level course will receive six college credits from West Chester University.

FALL SEMESTER COURSES

ELEMENTARY JAPANESE I (11, 12)

INTRODUCTION TO GEOSPATIAL TECHNOLOGY AND ANALYTICS (11, 12)

INTRODUCTION TO ANTHROPOLOGY: CULTURAL (11, 12)

SPRING SEMESTER COURSES

ELEMENTARY JAPANESE II (11, 12)

INTRODUCTION TO ETHICS (11, 12)

NUTRITION AND CULTURE (11, 12)

SUMMER SEMESTER COURSES

STUDIO MUSIC ENSEMBLES

STUDIO PRODUCTION

CANCELLED

FULL YEAR COURSES

These dual enrollment courses will be taught on site at WCASD. Students successfully completing this full-year college level course will receive six college credits from WCU and 2 credits from WCASD. Both courses are offered 6 periods in each 5-day cycle.

ADVANCED GEOSCIENCE: ASTRONOMY AND GEOLOGY (11, 12)

ADVANCED GEOSCIENCE: OCEANOGRAPHY AND METEOROLOGY (11, 12)

FALL SEMESTER COURSES

ELEMENTARY JAPANESE I (11, 12)

Introduction to elementary Japanese with focuses on hearing, speaking, reading and writing to develop basic competence. Emphasis is on integration of all language skills.

INTRODUCTION TO GEOSPATIAL TECHNOLOGY AND ANALYTICS (11, 12)

This course develops critical thinking skills through the exploration of the fundamental components of data analytics in terms of spatial data and geospatial technologies. This includes the basic concepts and skills related to the 3 core areas of analytics, 1) data, 2) analysis, and 3) visualization. Data structures and skills are examined within the context of Geographic Information Systems (GIS). Spreadsheets, database tools, GIS software, and geospatial technology are used to capture, manage, and store spatial data. Analysis tools, such as spreadsheet functions, scripts, and GIS software are used to investigate data sets related to discipline-specific projects. Geovisualization of results are communicated using map applications, dash boards, and story maps.

INTRODUCTION TO ANTHROPOLOGY: CULTURAL (11, 12)

This introductory course explores the traditional subjects of cultural anthropology and the field's growing concern with topics of everyday interest to mainstream U.S. society. Anthropology, in the broadest sense, is the study of humanity; socio-cultural anthropology in particular examines the distinctive and often intangible mechanisms that make us think and act, organize ourselves, and understand and experience the surrounding world the way we do. This course explores social and cultural diversity through a range of themes: economic and political organization, race and ethnicity, kinship and marriage, gender, religion, language, and globalization.

SPRING SEMESTER COURSES

ELEMENTARY JAPANESE II (11, 12)

Continuation of basic language skills in speaking, reading and writing of modern Chinese with an emphasis on solid training at the beginning level. The course focuses on providing students with the basic vocabulary needed for daily conversation. Elementary reading and limited writing introduced.

Prerequisite: Successful completion of Elementary Japanese I

INTRODUCTION TO ETHICS (11, 12)

In complex situations, the study of ethics will help individuals anticipate difficult choices, evaluate competing demands, and think through moral questions. Studying ethics develops background content and critical thinking skills to participate in conversations with others about what is best. These discussions and debates are necessary for contributing to something larger than ourselves. This course will provide an introduction to major theories and contemporary work in moral philosophy and offers tools for ethical decision making in our daily lives with an emphasis on the influence of culture, power, and privilege.

NUTRITION AND CULTURE (11, 12)

Our physical and mental wellbeing are greatly impacted by diet and food choices, which are also directly affected by internal and external cultural influences. Culture-specific foods are associated with family traditions and celebrations (and feelings of comfort and pleasure). This course will examine the relationship between nutrition and multicultural practices, and will discuss the origins of traditional food preparation, contemporary consumption habits, and disease incidence among the majority and minority populations within the United States.

SUMMER SEMESTER COURSES

STUDIO PRODUCTION (11, 12)

This class focuses on the techniques of music production in a studio setting. Students learn the basics of recording, editing, mixing, and mastering in a digital audio workstation.

STUDIO MUSIC ENSEMBLE (11, 12)

The Studio Music Ensemble is a group with flexible instrumentation built around a pop band core that performs music in a variety of styles, including existing songs and original compositions. Key aspects of the course include performance, improvisation, collaboration, effective rehearsal techniques, and live audio.

FULL YEAR COURSES

These dual enrollment, credit by exam courses will be taught on site by WCASD teaching staff in cooperation with West Chester University. Students successfully completing this full-year college level course will receive six college credits from West Chester University and 2 credits from WCASD. For 2024-2025 the course offered will be Advanced Geoscience: Oceanography and Meteorology. For 2025-2026 the course offered will be Advanced Geoscience: Astronomy and Geology.

ADVANCED GEOSCIENCE: OCEANOGRAPHY AND METEOROLOGY (11, 12)

During the first semester, students will explore the physical and biological processes in the oceans. In the second semester, students will investigate the fundamental processes that determine the weather and climate on Earth.

Prerequisite: Successful completion of Biology and Chemistry.

ADVANCED GEOSCIENCE: ASTRONOMY AND GEOLOGY (11, 12)

During the first semester, the students will examine the formation and composition of the universe. In the second semester, students will study the Earth's history, composition, and processes.

Prerequisite: Successful completion of Biology and Chemistry.

Through a partnership with the University of Pittsburgh, WCASD high school students may earn both high school and college credit concurrently for select approved courses. Course descriptions can be viewed in this guide. For the 2024-2025 school year, the proposed college in the high school courses are:

AP ART HISTORY

AP CALCULUS BC

AP COMPUTER SCIENCE A

AP UNITED STATES GOVERNMENT AND POLITICS

HONORS BROADCAST JOURNALISM & SOCIAL MEDIA PRODUCTION

HONORS ITALIAN 3

HONORS LATIN 3



For more information about our AP and other collegiate offerings, please speak to your school counselor.

UNIVERSITY OF PITTSBURGH COLLEGE IN THE HIGH SCHOOL (CHS)

Through a partnership with the University of Pittsburgh, WCASD high school students may earn both high school and college credit concurrently for select approved courses. **For the 2024-2025 school year, the proposed college in the high school courses are: AP Art History, AP Calculus BC, AP Computer Science A, AP United States Government and Politics, and Honors Broadcast Journalism & Social Media Production.**

These courses are taught by West Chester Area School District teachers during the regular school day and are tightly aligned with our curriculum in that the collegiate-level coursework mirrors the WCASD coursework. The College in the High School (CHS) offerings represent an opportunity for significant financial savings for our families. Information regarding the CHS program is below, however, guidance counselors will be able to provide specifics.

1. The University of Pittsburgh currently offers these courses at a cost of \$75 per credit (\$225 for the course) however this may be subject to change for the 2024-25 school year. Most University of Pittsburgh courses are 4 credits (\$300) and shows as a 1 credit core course WCASD.
2. Students participating in the federal free and reduced lunch program, and those families experiencing financial hardship, are eligible to apply for a reduced course fee.
3. WCASD and/or its employees do not charge any additional fees for this service nor do they receive any financial benefit from the University.
4. WCASD High School teachers participating in the program have been accepted/approved by the University of Pittsburgh as CHS adjunct professors.
5. Students will be awarded 3.0 or 4.0 credits on a University of Pittsburgh transcript and 1.0 credit on their WCASD transcript upon successful completion of a full-year course. Students will be awarded 1.0 credit on a University of Pittsburgh transcript and 0.5 credit on their WCASD transcript upon successful completion of a half-year course.
6. Credits earned via this program are transferable to many colleges or universities that normally accept such credits. The university transcript does not include any notation that the course was completed via the CHS program.
7. Student applications must be completed in order to take part in the CHS program with the University of Pittsburgh; there is no fee for the application. This deadline for applications is in the fall of the school year and will be publicized.
8. CHS students may be required to complete assignments that are specific to the CHS program and may be different from non-CHS course assignments.
9. CHS students may be graded on two different grading requirements while completing the CHS course as a result of different requirements for each institution.
10. Students taking an AP course for CHS credit may choose to take or not take the AP exam.
11. Students are encouraged to check with their prospective college/university if the credits will transfer.
12. Students may enroll in any AP or CHS course without being required to take the course for college credit.

ADVANCED PLACEMENT COURSES

The Advanced Placement® Program (AP) offers students the opportunity to take college-level courses and exams in high school and earn college credit, advanced placement, or both at many colleges and universities in the U.S. and around the world. By earning college credit in high school and skipping introductory courses in college, your child can save time and money as they work toward a college degree. The approved University of Pittsburgh CHS courses are bolded blue course.

ADVANCED PLACEMENT COURSES OFFERED

Art:	English:	Music:	Social Studies:	World Languages:
Art & Design	Language & Composition	Music Theory	European History	French
Art History	Literature & Composition	Science:	Human Geography	German
Computer Science:	Mathematics:	Biology	Economics	Italian
Computer Science A	Calculus AB	Chemistry	Psychology	Latin
Computer Science Principles	Calculus BC	Environmental Science	US Government & Politics	Spanish
	Statistics	Physics 1	US History	
		Physics C		

AP CAPSTONE - 2 YEAR COURSE OF STUDY

AP Capstone™ is a College Board program that equips students with the independent research, collaborative teamwork, 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. Students who enroll in this program must commit to the two years and will earn 2 high school credits, weighted at the AP level.

Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing receive the AP Capstone Diploma™. This signifies their outstanding academic achievement and attainment of college-level academic and research skills.

Students who earn scores of 3 or higher in both AP Seminar and AP Research but not on four additional AP Exams receive the AP Seminar and Research Certificate™.

YEAR 1: AP SEMINAR (10, 11) 1 CREDIT

AP Seminar is a year-long course that has students investigate real-world issues from multiple perspectives. Students learn to synthesize information from different sources, develop their own lines of reasoning in research-based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Students will be assessed on a group presentation, individual paper, and written exam.

YEAR 2: AP RESEARCH (11, 12) 1 CREDIT

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research-based investigation to address a research question. The course culminates in an academic paper of 4000-5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense. Students will be assigned a lead advisor for their Research year, but will also have the ability to seek out experts in the specific field of their research to serve on their 3-person advisory panel.

Prerequisite: Successful completion of AP Seminar

ELIGIBILITY FOR ATHLETIC/ACTIVITIES AT NCAA COLLEGES

The NCAA Eligibility Center verifies the academic and amateur status of all student-athletes who wish to compete in Division I or II athletics.

College-bound student-athletes who want to practice, compete and receive athletically related financial aid during their first year at a Division I or II school need to meet the following requirements:

- Graduate from high school
- Complete a minimum of 16 core courses for Division I or II
- Earn a minimum required grade-point average in core courses
- Request final amateurism certification from the NCAA Eligibility Center

For Division I student-athletes, the following must be completed in addition to the above standards:

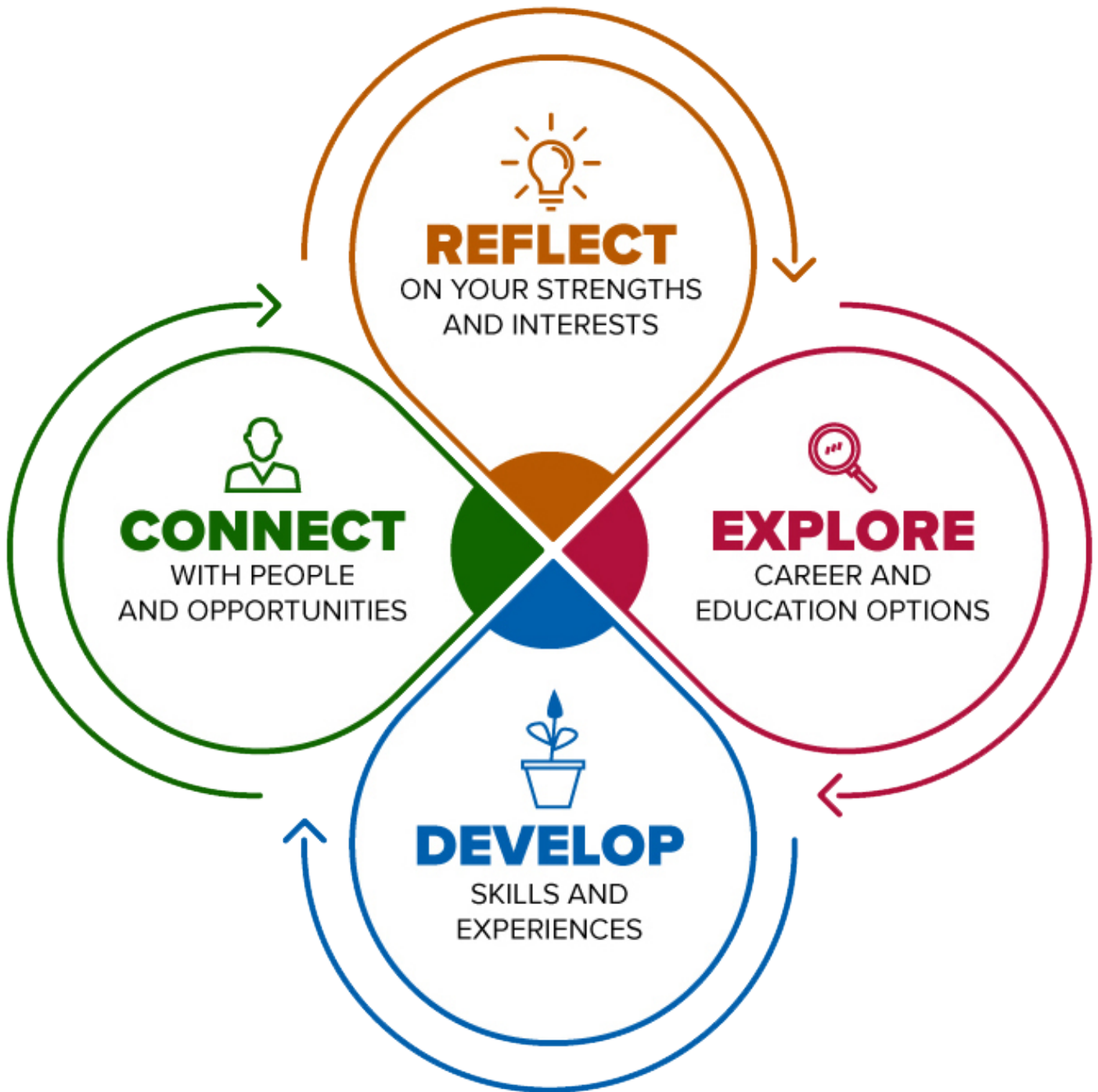
- Earn at least a 2.3 grade-point average in core courses
- Meet an increased sliding-scale standard (for example, an SAT score of 820 requires a 2.5 high school core course GPA)
- Successfully complete 10 of the 16 total required core courses before the start of their seventh semester in high school. Seven of the 10 courses must be successfully completed in English, math and science.

Students who earn at least a 2.0 GPA and meet the current sliding-scale standard will be eligible for practice in the first term and athletically related financial aid the entire year, but not competition. Freshmen who are academically successful in the first term will earn the ability to continue to practice for the remainder of the year. Division III colleges and universities set their own admission standards. The NCAA does not set initial eligibility requirements in Division III.



CAREER EDUCATION PROGRAM

WCASD Career Education and Work Study



CAREER EDUCATION

The West Chester Area School District's multi-faceted Career Education Program connects high school students with real world experiences, serving as a critical link between classroom learning, both in curriculum content and skill acquisition, and in the world of work. Deeper learning occurs through the purposeful integration of rigorous academic content with diverse experiences to build knowledge, intentionally cultivate skills, and broaden perspectives for students to become lifelong learners and purposeful contributors to our community and beyond. Business and community connections positively impact students through the sharing of practical work experiences and learned life lessons that help students make informed career decisions. Through these meaningful interactions, community leaders also help students identify and hone future-ready skills needed to compete and succeed in the workplace. Our goal is to provide awareness to students and families of the spectrum of post-secondary career and education and training opportunities including school to work, apprenticeship, certification, and two year and four year college/university programs. Purposeful and rewarding careers abound in both the skilled trades and those requiring a college degree, and may be achieved at various levels of financial cost.

CAREER EDUCATION COMPONENTS

Career Education Components – Grades 9 - 12

- **Personal Interest & Aptitude Exploration:** Students will take career interest and abilities inventories and explore career clusters also based on activities, personal qualities, and school subjects. The program can be further utilized to access information on careers related to apprenticeships, military occupations, college majors, technical schools, and 2 and 4-year colleges
- **Future-Ready Skills:** Classroom and community based experiences focused on learning, literacy and life skills. Learning skills focus on the "Four Cs": critical thinking, communication, collaboration and creativity. Literacy skills, also called "IMT", include information, media, and technology skills that focus on digital comprehension. Life skills ("FLIPS"), include flexibility, leadership, initiative, productivity and social skills.
- **Career Awareness via Field Trips, Community Events, and Job Shadowing:** Students may participate in a variety of curriculum related field trips, events, and showcases in various career clusters and post-secondary educational institutions. Job shadowing is a career exploration activity in which students gain exposure to careers that they are interested in pursuing by working with business/community volunteers for part of a work day. By visiting a workplace, investigating a career field and industry, and experiencing a typical day on the job, students can determine if the career and industry fits their interests, skills, and career aspirations. Collaboration with leadership and mentoring organizations such as Junior Achievement (JA), Pennsylvania Free Enterprise Week (PFEW), Youth Leadership Program (YLP), and others are included. Students complete a reflection of their experience(s) which is housed in their individual career portfolio, allowing each experience to shape their future vision.
- **Internship Program – Grades 12:** The Learn to Earn Program will provide students with an immersion experience into the professional world of work. Students will have the opportunity to explore a potential career area through their participation in a 4 week unpaid internship experience taking place during the last marking period. Students obtain their own internship site and the business sponsor must agree to acquire the three PA clearances. The business/company sponsor is expected to introduce students to positive aspects of the business and responsibilities in the workplace and make the connection between work and school.

CAREER ARTIFACT COMPONENT

The Academic Standards for Career Education and Work reflect the increasing complexity and sophistication that students experience as they progress through school. Career Education and Work Standards describe what students should know and be able to do at four grade levels (3, 5, 8 and 11) in four areas:

- Career Awareness and Preparation
- Career Acquisition (Getting a Job)
- Career Retention and Advancement
- Entrepreneurship

In high school, counselors at each grade level will aid your student in completing eight (8) career artifacts by the end of their junior year. These artifacts are designed to address all four areas of the academic standards listed above. We encourage you to talk with your student about these artifacts and how they may motivate students to explore and prepare for the world after graduation.

WORK STUDY PROGRAM

Students are required to work a minimum of fifteen (15) hours per week for two consecutive semesters for 1.0 credit. Students in Work Study 2 will work twenty (20) hours per week for two consecutive semesters and may earn 2.0 credits. Students are released from school at the end of their last scheduled class, enabling them to work and still have time to complete homework and other school related assignments. Students are required to attend monthly meetings with their Work Study Coordinator and MUST plan their work schedules accordingly.

WORK STUDY THEORY, 1 CREDIT (11, 12)

Neutrally Weighted

A general and specific related course to be taken in conjunction with Work Study I. Topics of discussion include personal and job safety, job applications, letters of application, resume, interview procedures, employer/employee relations, getting along with co-workers, attitude development towards work in general, progress on the job, personal budgeting, consumer responsibilities, bank services, taxpayer responsibilities with a focus on income tax form preparation (Federal and State), social security and insurance. Emphasis is placed on career exploration and research. Student occupational choices are based on personal abilities, interests, values, personality and overall lifestyle goals.

WORK STUDY 1, 2, 1 CREDIT (11, 12)

Neutrally Weighted

Students enrolled in this course are responsible for finding a job outside of school. They will work in local business establishments under the supervision of community business managers/owners, with the collaborative supervision of their Work Study Coordinator. Work schedules, earnings and hours worked are filed with the Work Study Coordinator on a weekly basis.

Prerequisite: Students enrolled in Work Study I must be concurrently enrolled in Work Study Theory.

SPECIALIZED PROGRAMS

WC Cyber, ELD, Gifted, and Blended Learning



WC CYBER PROGRAM

In high school, students have the option of creating a more flexible schedule by enrolling in some classes in-person and others through our WC Cyber Program. The WC Cyber Program is taught by WCASD teachers using our curriculum and materials. Below is a full list of courses available within the WC Cyber Program. **Classes run based on enrollment.**

Art

Comic & Animation 1
Digital Art 2
Graphic Design 1
Photography 1
Photography 2
AP Art History

Business

International Business
Intro to Business & Marketing
Marketing Honors
Personal Finance
Social Media Marketing
Sports & Entertainment
Marketing

Computer Science

Introduction to Computer
Programming Honors
AP Computer Science A
AP Comp Sci Principles

English

English 9, 10, 11
English 12 (Fall)
AP Language (11th)
AP Literature (12th)
African-American Lit
Humanities
Film Studies
Creative Workshop 1
Creative Workshop 2
Broadcast Journalism & Social
Media Production Honors 1

Family Consumer Science

Child Development 1
Intro to Food Prep

Health & Physical Education

Health Fitness (9)
Health 10
Physical Fitness (10)
Personal Fitness Training

Mathematics

Algebra 1A, 1B, 1
Geometry
Algebra 2
Pre-Calculus
Calculus
AP Calculus AB
AP Calculus BC
Statistics Honors
Statistics Honors through Sports
Analytics
AP Statistics

Science

Biology 1
AP Biology
Chemistry 1
AP Chemistry
Physics 1
AP Physics 1, AB
AP Physics C: Mech & Elec & Mag

Social Studies

African Asian Cultures
AP Human Geography
European & Latin American
Studies
AP European History
US History
AP US History
Government & Economics
AP Gov & Politics
Military History 1
Military History 2
AP Psychology
Race & Ethnicity in Early America
Race & Ethnicity in Modern
America
Stocks & Investments
Understanding Law

World Language

French 1, 2, 3, 4, 5 and AP
Spanish 1, 2, 3, 4, 5 and AP

ENGLISH LANGUAGE DEVELOPMENT PROGRAM

English Learners (EL) in the West Chester Area School District represent over 38 different native languages. In the 2023-24 school year, the District had more than 563 active ELs. The goal of the West Chester Area School District's ELD Program is to facilitate the development and attainment of English proficiency and academic achievement of students whose native or first language is not English and to ensure equitable access to academic content, school resources, and programs. The foundation for the curriculum is a standards-based curriculum aligned to the English Language Development Standards and the Pennsylvania State Academic Standards.

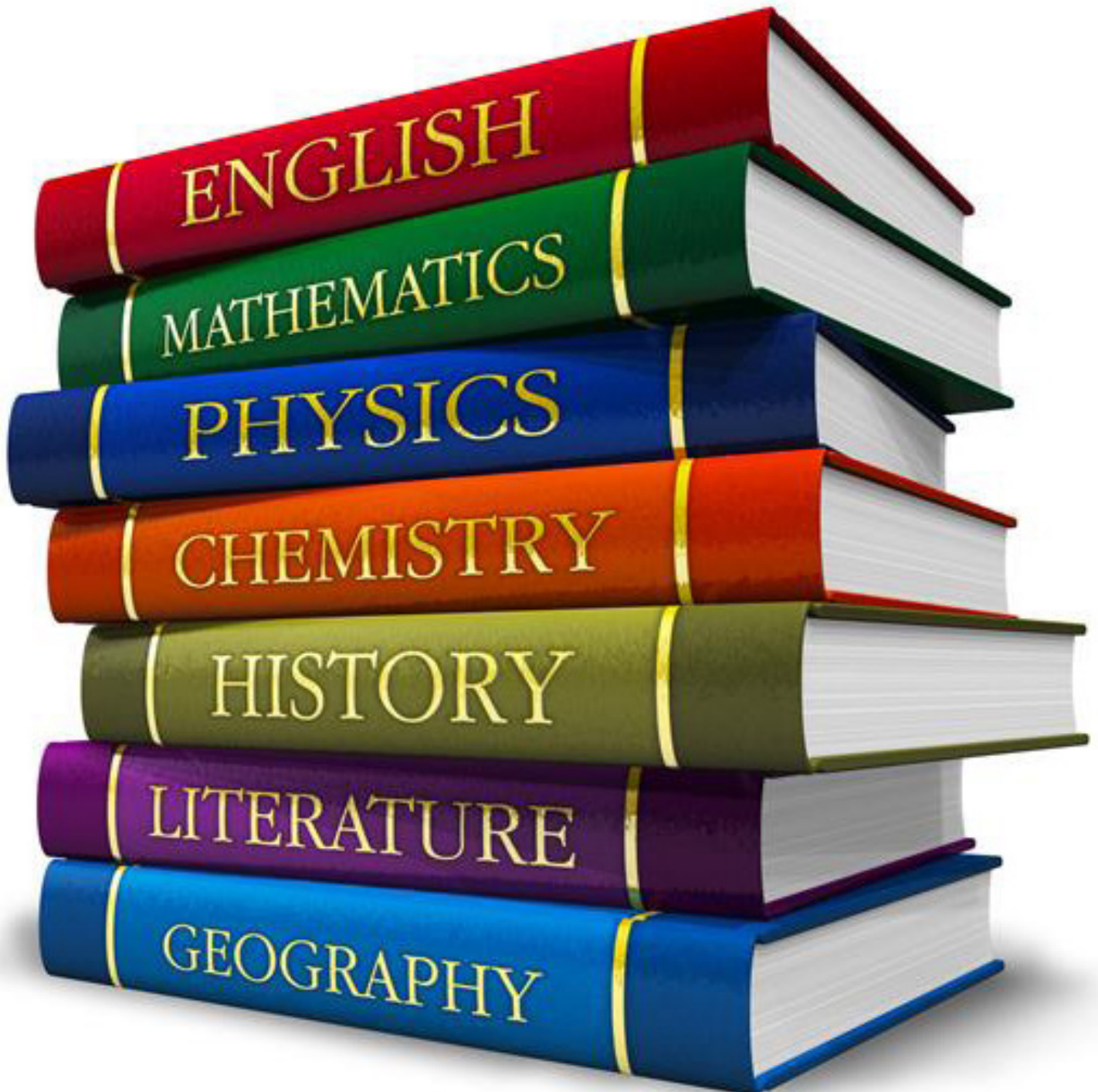
GIFTED EDUCATION PROGRAM

Enrichment and acceleration is available to all identified students as determined by the gifted individualized education plan (GIEP) team. Students may be identified as gifted at any point during their educational career. Both parents and teachers have the ability to start the gifted identification process. The high school Gifted Program focuses on these areas: Gifted Paideia Seminar, Colloquium Seminar, College and Career Planning, Job Shadowing, Mentoring, and Independent Project. Visit www.wcasd.net/gifteded for more information.



COURSE SELECTION

Determine the courses that work best for you!



WEST CHESTER AREA SCHOOL DISTRICT

2024-25 HIGH SCHOOL COURSE SELECTION GUIDE

ART COURSES

The Art Department creates a positive environment to educate students in the world of art. Students can choose to enrich their studies with art opportunities, as well as pursue art related professions. Teachers guide students to choose and evaluate a range of subject matter, symbols, and ideas. Students explore the visual arts in relation to history and cultures. These courses allow both student and teacher to reflect upon and assess the characteristics and merits of their work and the work of others. For students interested in majoring in art / applying to an art institute are encouraged to take multiple art courses, exploring different media, and extend their learning by completing AP Art & Design and / or AP Art History.

Art courses count towards the 2.0 Arts/Humanities Credit required for graduation. Many universities do ask to see at least one art course on high school transcripts.

STUDIO ART COURSES

STUDIO ART 1 (9, 10, 11, 12) 1 CREDIT

Neutrally Weighted

Focusing on 2-dimensional design, students work with a variety of media such as pencils, charcoals, pastels, watercolors, and acrylics. The course addresses shading, depth, color theory, layout, and painting, and integrates appreciation, criticism, and art history into its content.

STUDIO ART 2 (10, 11, 12) 1 CREDIT

Neutrally Weighted

At this level, students are expected to build on skills, experiences and philosophies learned in Studio 1. Critical and creative thinking are incorporated as a more in-depth problem solving approach through the use of a variety of media. College portfolio preparation, class critiques and art history are emphasized.

Prerequisite: Completion of Studio Art 1 or teacher recommendation.

SCULPTURE/3-D DESIGN 1 (9, 10, 11, 12) 1 CREDIT

Neutrally Weighted

Students are challenged to think three-dimensionally. Areas of sculptural techniques may include additive and subtractive, as well as sculptural types like relief, in the round and kinetic. Possible materials for exploration may be clay, paper, plaster, wire, wood, metals, glass, ceramic, and found objects. Individual, small group and large group projects may be employed in this course. Sculpture movements of the past, as well as contemporary art, are reviewed.

SCULPTURE/3-D DESIGN 2 (10, 11, 12) 1 CREDIT

Neutrally Weighted

At this level, students are expected to build on skills, experiences and philosophies learned in Sculpture One. Students will continue to explore materials such as clay, paper, plaster, wire, wood, metals, glass, ceramic, and found objects. Students will begin to develop conceptual ideas and explore areas of personal interest through three-dimensional mediums.

SCULPTURE/3-D DESIGN 3 (11, 12) 1 CREDIT

Neutrally Weighted

Sculpture 3 challenges students to build upon the concepts and skills previously developed. More emphasis is placed on independent study with a focus on sculptural movements and their relevance to student work. Students have the opportunity to develop concentrations in areas of personal interest. The freedom to formulate ideas within their concentration and experimentation of media is encouraged. Critique and art historical reference continue to be part of the learning process at this level.

Prerequisite: Sculpture/3-D 1/ Sculpture/3-D 2 or teacher recommendation.

DIGITAL MEDIA COURSES

COMIC & ANIMATION 1 (9, 10, 11, 12) 1 CREDIT

Neutrally Weighted

Comic and Animation 1 is a design oriented course focused on comic facial and figure design, story construction, animation, visual narratives, lettering, imagery related to the written word, and two dimensional design. Students experiment with a variety of traditional media and computer graphics through the Adobe Creative Suite.

GRAPHIC DESIGN 1 (9, 10, 11, 12) 1 CREDIT

Neutrally Weighted

This beginning course is for students interested in learning the fundamentals of graphic design. Students use drawing skills as well as computer graphic software such as Adobe Illustrator within the Adobe Creative Suite. The course addresses layout, color, lettering, illustration and advertising.

DIGITAL DESIGN 2 (10, 11, 12) 1 CREDIT

Neutrally Weighted

This second level course builds on skills and concepts studied in first level comic & animation and graphic design courses. The course is designed to educate students on the ever-changing digital world, as well as to provide hands-on experience with industry standard software and equipment. Topics covered in Digital Design class may include graphic design, animation, and web design through Adobe Creative Suite programs. Prerequisite: Completion of Comic & Animation 1 or Graphic Design 1, or teacher recommendation.

PHOTOGRAPHY 1 (9, 10, 11, 12) 1 CREDIT

Neutrally Weighted

An introduction to black and white photography, students will learn the basics of the single lens reflex camera operation, how to develop and print black and white film, darkroom work, and matting and presenting a finished photograph. Digital photography is introduced, along with print manipulation software such as Adobe Photoshop.

PHOTOGRAPHY 2 (10, 11, 12) 1 CREDIT

Neutrally Weighted

At this level, students are expected to build on skills, experiences and philosophies learned in Photography 1. Students are introduced to classic photographers while exploring the different genres within photography. Students will further develop prior knowledge of this medium in more advanced ways of creating, through film processing, image manipulation, and appreciation of photography as an artist's tool in communicating ideas and exploring personal visions. A strong emphasis will be placed on thematic work.

PHOTOGRAPHY 3 (11, 12) 1 CREDIT

Neutrally Weighted

Photo 3 is intended as a continued exploration of concepts and techniques learned in digital and darkroom photography. Students are encouraged to explore all aspects of the photographic medium and develop a personal style in their work. Building a strong portfolio will be emphasized.

Prerequisite: Photography 1/Photography 2 or teacher recommendation.

ADVANCED ART OPTIONS

Advanced Art & Design Honors (11, 12) 1 credit

This third-level advanced course intensifies and expands previous media experiences and offers additional problem-solving challenges. Students are expected to synthesize what was taught in their chosen concentration of medium of studio materials, digital media, or three dimensional materials. Students are encouraged to explore individual style and are expected to create a large body of work which shows clear personal vision. Work is done in and outside of class. A strong emphasis is placed on art history and contemporary art practices.

Prerequisite: Level 2 art course or teacher recommendation.

ADVANCED PLACEMENT ART AND DESIGN (11, 12) 1 CREDIT

In this course, student will develop the skills that artist and designers use and create a portfolio of work. The portfolio includes a series work based upon a Sustained Investigation and is submitted to the College Board at the end of the year. Because of the amount of work, it is often necessary to complete projects at home. Should the portfolio be accepted, the student has the opportunity to earn college credit.

Prerequisite: Advanced Art & Design Honors, completion of a third level art course, or teacher recommendation.

Advanced Placement Art History (10, 11, 12) 1 credit (UoPCHS)

This is an University of Pittsburgh College in the High School approved course

Students will explore the history of art across the globe from prehistory to the present. Students will analyze art, architecture, and artifact in reference to its place in global civilization. This course can expand on a student's acquired knowledge of history, geography, politics, literature and visual art. This course prepares students to take the College Board AP Art History exam.

ART OPTIONS (10, 11, 12)* VARIABLE CREDIT

Neutrally Weighted

Designed for students who want to take a specific art class for partial credit due to scheduling conflicts, students must choose which art class to enroll in, and receive the permission of BOTH the art teacher and their school counselor. This is NOT an independent study arrangement. Credit is determined on the number of days per week the student is enrolled in class.

*Since this course is based on availability and room within a student's schedule, this course may be selected only after the school year begins.



BUSINESS/MARKETING/INFORMATION TECHNOLOGY COURSES

ACCOUNTING 1 HONORS (10, 11, 12) 1 CREDIT

Accounting 1 Honors is designed for students planning to major in business at the college level or for students preparing for a career in business or accounting. Students focus on recording, understanding and interpreting financial records for a sole proprietorship service business. Through demonstration, explanation and practice, students explore topics including accounting principles, the accounting cycle, and basic financial statements while applying workforce readiness skills.

ACCOUNTING 2 HONORS (11, 12) 1 CREDIT

Accounting 2 Honors is an advanced course offering a higher proficiency in accounting for students planning to major in business or accounting at the college level. Students focus on recording, understanding, and interpreting financial records for a merchandising corporation. The content is delivered through explanation, demonstration, on-line activities and practice. Emphasis is placed on applying workforce readiness skills including: mathematics and financial analysis; understanding complex inter-relationships; teamwork; critical thinking and problem solving; and self-direction/personal responsibility. Throughout the year, students complete projects to link classroom learning with the business world.

Prerequisite: Accounting 1 Honors

PROJECT MANAGEMENT & LEADERSHIP HONORS (11, 12) 1 CREDIT

This course will incorporate leadership skills and strategies to learn applicable skills for your future career. Project managers oversee the planning and execution of company goals and initiatives. Examples of initiatives can range from construction of new facilities, major marketing campaigns, new entrepreneurial ventures/acquisitions, and scientific experiments. Project Managers use leadership skills to unite departments in their company and bring value to their business, consumers, and their community. Students will learn the organization, leadership, and presentation skills necessary to excel in any business throughout this course. Students must participate in DECA's co-curricular competitions or complete a DECA competition project.

ENTREPRENEURSHIP HONORS (12) 1 CREDIT

There are 582 million entrepreneurs in the world, but yet 20% of all new businesses fail within the first year. Sign up for our Entrepreneurship class to gain the skills to become a successful Entrepreneur. This course's goal is to provide a comprehensive examination of what it takes to successfully create, fund, and build your own business. Engagement in think-tank style sessions to generate potential solutions will be utilized. A major project in our class is our Market Day where the students will propose, plan, organize, and run their own business for the day. Follow-up is provided to analyze the success or failure of their businesses. Other topics addressed will be business laws, legal types of business ownership, franchises, subscription boxes and food trucks. DECA is required in this course.

INTERNATIONAL BUSINESS (9, 10, 11, 12) .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

Through project-based research and case studies, students explore the expanding global economy. Topics include trade, labor and capital mobility, multi-national corporations, currency and exchange rates, developed and developing countries, and the evolving world economy.

INTERNSHIP (12) 1 OR 2 CREDITS

Neutrally Weighted

The Business/Marketing Internship Program is a career-focused experience during which students become directly involved in the workplace. This experience provides an opportunity for a student to apply the skills obtained in school to real work situations and to learn additional skills. An internship will

also help students to define career goals. Students will be released for 1 or 2 periods as appropriate.

Prerequisite: At least one Business/Marketing credit.

INTRODUCTION TO BUSINESS & MARKETING (9, 10, 11, 12) 1 CREDIT

Neutrally Weighted

Students achieve a basic understanding of business, marketing, finance, economics, and careers. They learn their role as a business professional, consumer and citizen in the free enterprise system, and explore a broad scope of business related careers. The curriculum is designed to develop attitudes and basic skills that lead to successful employment. Individual exploration, as well as group projects, are used to define career options, develop employment skills, learn how to find employment, manage business and marketing projects, and understand finances. Operations of the school store and activities in DECA (an association of marketing students) are used to develop leadership abilities.

MARKETING HONORS (10, 11, 12) 1 CREDIT

This course is designed to develop an understanding of marketing processes and the specific skills in selling, advertising, display, merchandising and human relations. Included are basic economics, marketing processes, consumer motivation, techniques of selling, business systems, customer services, business communication, interpersonal relationships and sales promotion. Activities in the DECA (an association of marketing students) chapter are used to develop leadership abilities. Students must participate in DECA's co-curricular competitions or complete a DECA competition project.

PERSONAL FINANCE (9, 10, 11, 12) .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

Understanding and managing personal finances are key to one's future financial success. This semester-long personal finance course covers all of the essential personal finance topics necessary to become a financially competent future member of society. Students will design personal and household budgets; analyze the management of bank accounts (savings and checking); explore options for paying for college; understand debt, and credit management; evaluate and understand investments for both wealth and retirement, insurance, and taxes. Students will evaluate the costs and benefits of their financial decisions, recognize their rights and responsibilities as consumers, and apply the knowledge learned to financial situations that will be encountered later in life. By the end of this course, students will have a thorough understanding of personal finance topics and be prepared to make informed personal financial decisions.

Social Media Marketing (9, 10, 11, 12) .5 credit/semester course

Neutrally Weighted

This course will provide students the opportunity to study the history and influence of social media while developing integrated marketing communications plans and social media campaign strategies. Social Media platforms, with regards to business, will be explored and skills developed to influence perception and engagement while hands-on social media campaigns will be launched and key metrics and analytics will be used to measure success. Students will develop skills related to communication, research, analysis, synthesis and project management while preparing students for social media marketing roles in the workplace.

SPORTS & ENTERTAINMENT MARKETING (9, 10, 11, 12) .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

Through project-based research and case studies, students explore the multi-billion dollar sports and entertainment industries. Topics include economics, marketing, brands, image, product development, pricing, branding, licensing, research, promotion, and careers.

CAREER COUNSELING COURSES

FUTURE READINESS 1 (9, 10) PASS/FAIL .1 CREDIT/SEMESTER

Meets 1 Day a cycle

This course will help students make a successful transition from middle school to high school while developing skills for overall success in high school and beyond. Students will explore social/emotional development, academic practices, and career readiness, while improving students' study and decision making skills in the process.

FUTURE READINESS 2 (10, 11) PASS/FAIL .1 CREDIT/SEMESTER

Meets 1 Day a cycle

This course will help students develop both technical and soft skills needed for career readiness through personal learning and workplace experience connections. Students will explore post-secondary options aligned with their interests, achievements and abilities. Students will be provided with a solid foundation in career education, 21st century skills development, and sustainable employment opportunities.

COMPUTER SCIENCE COURSES

INTRODUCTION TO PYTHON ACCELERATED HONORS (9, 10, 11, 12) 1 CREDIT

This course introduces students to computer programming using the Python programming language. While throughout the course emphasis is placed on the engineering design process and algorithmic development skills, the course uses a project based approach towards the student's comprehension of common programming commands and concepts. This course will expose students to text and graphical I/O, small and large data storage and processing techniques, procedural programming design, and a variety of general computer science topics. This course lays a solid foundation for continuing into the AP Computer Science A (Java Programming) course.

Prerequisite: Algebra 1.

INTRODUCTION TO COMPUTER PROGRAMMING HONORS (9, 10, 11, 12) 1 CREDIT

This full-year cyber-only course introduces the Python programming language and associated skills.

Prerequisite: Algebra 1

ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES (9, 10, 11, 12) 1 CREDIT

Students in this class will learn the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computer impacts. This course will provide students the opportunity to use technology to address real-world problems and build relevant solutions. Course work focuses on the innovative aspects of computing as well as the computational thinking practices that help students see how computing is relevant to many areas of their everyday lives. This course prepares students for the Advanced Placement examination in Computer Science Principles. Students will also be required by the College Board to create a set of artifacts to be submitted in addition to taking the AP test.

Prerequisite: Algebra 1

ADVANCED PLACEMENT COMPUTER SCIENCE A (10, 11, 12) 1 CREDIT

This is an University of Pittsburgh College in the High School approved course

This course extends computer programming concepts developed in Python and applies them to Java, the language of the AP Computer Science examination. Content includes the exploration of classes, arrays,

sets and pointers. Object-oriented programming methodology is studied. This course prepares students for the Advanced Placement examination in Computer Science.

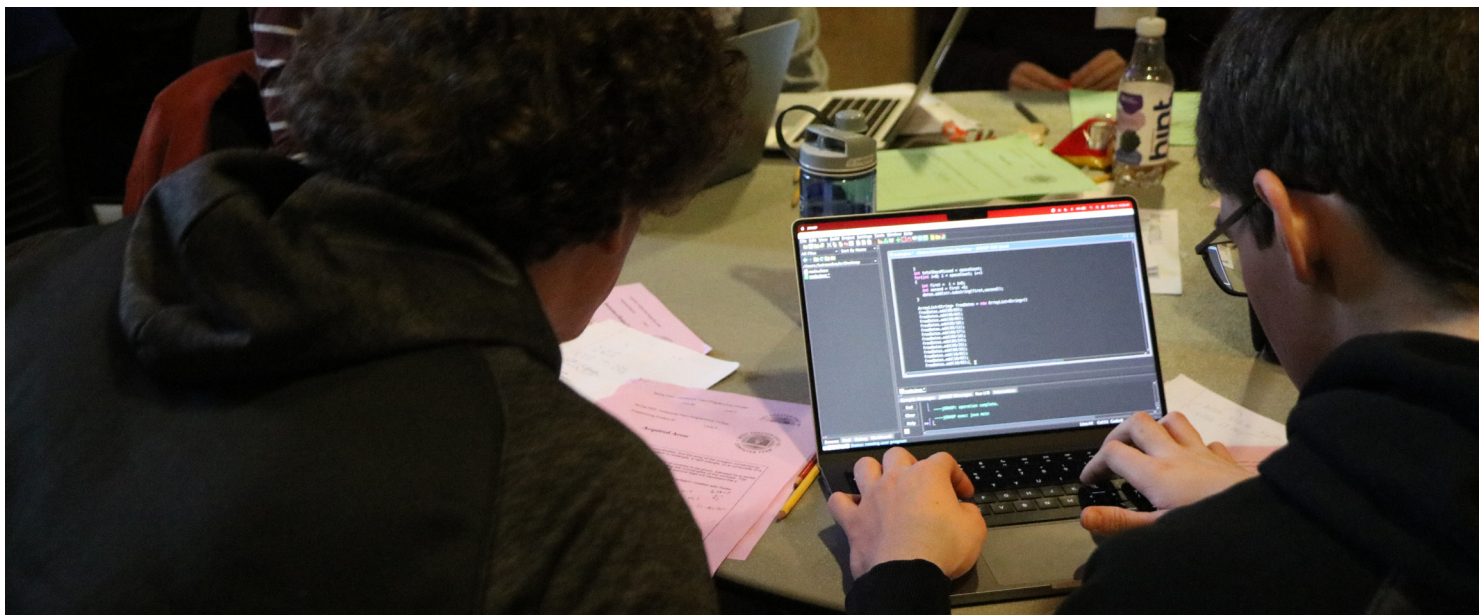
Prerequisite: Introduction to Python or Advanced Placement Computer Science Principles or teacher recommendation.

COMPUTER SCIENCE 2 ADVANCED AND EXTENDED STUDY

(11, 12) 1 CREDIT

Using the programming language of Java, this course extends the concepts learned in AP Computer Science A and offers students the opportunity to explore and learn in an environment that requires a significant amount of independent study. Topics include advanced programming algorithms, computer memory and run-time comparisons, advanced class usage, inheritance, polymorphism, dynamic data structures, graphics and/or GUI interface. Students receive AP-weighted grades for this course.

Prerequisite: Advanced Placement Computer Science A.



ENGLISH COURSES

GRADES 9 - 12 CORE COURSES

ENGLISH 9 CAREER & COLLEGE PREP/HONORS 1 CREDIT

English 9 includes a balanced program of reading, written or oral response, language study, and vocabulary. Reading and writing takes place both in and outside of class, with personal response to a variety of literary works. The expectations differ from one level of the course to another as indicated by the level descriptions.

ENGLISH 9 ACCELERATED HONORS 1 CREDIT

Students study literature in thematic units. Class discussions are based on readings, and students are expected to participate by contributing relevant, constructive and probing comments and questions. Students also complete process writing assignments as well as research pieces. Vocabulary and grammar study are also required.

ENGLISH 10 CAREER & COLLEGE PREP/HONORS 1 CREDIT

English 10 is a balanced program of reading, written or oral response, language study, and vocabulary. Reading and writing takes place both in and outside of class. The expectations differ from one level of the course to another.

ENGLISH 10 ACCELERATED HONORS  1 CREDIT

Accelerated Honors 10 continues the study of thematic units in major literary works. Students write analytical responses to a variety of poems, short stories, and essays from the text, as well as other major literary works. Daily class discussions are based on the readings, and students are expected to participate by contributing relevant, constructive, probing comments and questions.

ENGLISH 11 LANGUAGE OR LITERATURE CAREER & COLLEGE PREP / HONORS  1 CREDIT

Students read American literature written between the early 17th Century to the present, both in and outside of class, with vocabulary and comprehension activities tailored to accommodate different needs. A major emphasis is placed on research skills, reading and writing, independent studies, student responsibility, and meeting teacher expectations. The Honors level expands upon the core curriculum with supplemental readings and assignments.

ADVANCED PLACEMENT 11 LANGUAGE & COMPOSITION  1 CREDIT

Designed to provide students with a learning experience equivalent to the introductory year of college composition work, students strive to become skilled readers of prose written in a variety of disciplines and rhetorical contexts, and skilled writers who compose for a variety of purposes, aware of the interactions among a writer's purposes, audience expectations, and subjects. Students will develop research skills that will enable them to evaluate, use, and cite source material.

12TH GRADE ENGLISH

In 12th grade, students will enroll in either AP Literature or English Language (full-year) or they will take one semester of British Literature along with a semester selective.

ADVANCED PLACEMENT 12: LITERATURE & COMPOSITION  1 CREDIT

This course is designed to provide students with a learning experience equivalent to the introductory year of college literature work. The course engages students in the careful reading and critical analysis of literature. Through the reading of literary texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. An integral part of the course is writing interpretations of literary texts based on careful observations of textual details such as structure, style, theme, figurative language, imagery, symbolism, and tone.

ENGLISH 12 LANGUAGE CAREER & COLLEGE PREP/ HONORS  1 CREDIT

English 12 Language Career & College Prep relates reading and writing to the language and themes represented by the core literature. Students produce writing assignments and explore language study. Selections of texts provide the basis for composition, discussion, and research.

**ENGLISH 12 BRITISH LITERATURE CAREER & COLLEGE PREP/ HONORS  .5 CREDIT/
SEMESTER COURSE**

English 12 British Literature Career & College Prep and Honors both relate reading and writing to the language and themes represented by the core literature. Students read British and world literature from the English language's origins to the present. Students produce frequent writing assignments and explore language study. Selections for the core and supplementary texts provide a basis for compositions, discussions, and research. The Honors level expands upon the core curriculum with supplemental readings and assignments.

Students enrolled in British Literature will take one of the following courses:

AFRICAN AMERICAN LITERATURE  .5 CREDIT/SEMESTER COURSE

This course seeks to understand the Black experience through texts written by African American authors. Students will encounter a variety of literary genres, including novels, short stories, poems, and plays. Readings cover a wide band of history, from slave narratives to the Harlem Renaissance, the Civil Rights

movement, and the 21st Century Black experience. Issues of race, equity, and culture will be foregrounded as we investigate the historical struggle of African Americans.

CONFLICT LITERATURE .5 CREDIT/SEMESTER COURSE

Fictional and non-fictional literature reflecting times of conflict and crisis are the focal point of reading.

CONTEMPORARY LITERATURE .5 CREDIT/SEMESTER COURSE

This course includes literature and material from 1980 to the present.

HUMAN ENDEAVORS .5 CREDIT/SEMESTER COURSE

Students investigate the challenges and accomplishments of those who have attempted excellence. Different genres of literature, including novels and non-fiction, help to chronicle the perseverance of the human spirit.

HUMANITIES .5 CREDIT/SEMESTER COURSE

Literature, history, entertainment, film, arts, fashion, and trends come together in a study of the decades and eras in literature. Writing analyzes the literature and cultural media as conjunctive components.

ENGLISH ELECTIVES

The following courses may be used for arts/humanities or elective credits for graduation.

FILM STUDIES .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

Students in this class will analyze films of various eras and styles, considering the literary and cinematic techniques and perspectives which contribute to create meaning. This course will supplement and expand on skills practiced in other courses, including Language Arts and Video Production. Coursework will focus on critically viewing films, reading relevant texts, and writing both creatively and analytically. Class discussions will provide a forum for students to reflect on, theorize about, and evaluate films.

PUBLICATIONS .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

Designed for students interested in fields such as social media, journalism, magazine design, and communications, students will explore "traditional" media (magazines and newspapers), as well as "emerging" media (websites, blogs, and popular social media). Publications will cover the techniques of design, graphics, and current trends in publishing, as well as identifying and communicating with an audience. This course will prepare students to compete in a global, digital publications market.

PUBLIC SPEAKING 1 .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

Public speaking is a skill needed for success in communication, both in formal and informal situations. Students will examine techniques for writing and presenting persuasive, informative, interpretive, and entertaining speeches in addition to refining voice, poise, pronunciation, and gestures. Extemporaneous speeches, as well as speeches requiring research and preparation, are included. By developing self-confidence in front of a crowd, students will prepare themselves for various social and career opportunities.

PUBLIC SPEAKING 2 .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

Building upon the foundational speaking skills learned in Public Speaking, this course is for the student who desires to develop confidence and leadership skills. Students will seek opportunities to individualize their speeches and to speak outside of the classroom according to their interests and strengths.

Prerequisite: Public Speaking 1

THEATRE 1 .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

An introductory course designed for students with an interest in drama, students are given opportunities to study and practice acting techniques. This course includes a background in theatre, including improvisation, movement, and pantomime; use of voice, diction, and oral interpretation.

THEATRE 2 .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

Theatre Production is an exploratory course designed for students interested in drama. Students explore, develop, and synthesize the elements of the theatre through practical, hands-on experiences in acting and stagecraft. Through techniques like costuming, set design, and lighting, students will learn various elements of dramatic production.

Prerequisite: Theatre 1 or permission of instructor

CREATIVE WORKSHOP 1  .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

Creative Workshop 1 provides student writers with opportunities to explore the foundations of good writing in both fiction and nonfiction. Students will develop their own unique style and take creative risks in a supportive workshop environment. Students and their teacher discuss, model, and practice various genres. The class will publish an anthology of student writing, and students are encouraged to find online publications venues.

CREATIVE WORKSHOP 2  .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

This self-directed course is for motivated student writers who frequently write on their own or are considering writing in their college/career plans. Students develop a contract with the teacher to individualize their writing goals. They can explore and research various genres of fiction and nonfiction, and investigate Internet-based writing forums, contests, and publications. Students will be encouraged to promote their own writing through blogging, publishing, and oral presentation.

Prerequisite: Creative Workshop 1

READING INTERVENTION**CONTENT AREA LITERACY (9) 1 CREDIT**

In this course, participants will learn the cognitive and reflective processes that successful, independent readers use to comprehend text. They will become more competent readers and will improve their skills with the more challenging content texts they encounter at the high school level. Our building-based Multi-Tiered Support System (MTSS) team will communicate with families if students are identified as needing additional support.

Students will be selected into this course based on need as determined by multiple data.

ENGLISH ELECTIVES (VIDEO)**BROADCAST JOURNALISM & SOCIAL MEDIA PRODUCTION HONORS  (9, 10, 11, 12) 1 CREDIT**

This is an University of Pittsburgh College in the High School approved course

This course will develop the effective use of spoken and written communication for different media purposes and contexts. Students will demonstrate proficiency by creating multimedia products for our social media-centric culture. Students will produce a daily broadcast for school, and produce content for a school appropriate social media channel. Students will explore many topics such as: newsroom

production, script writing, journalism ethics, news and social media judgment, interview, studio and remote shooting, production staging, directing, and editing. Students will be expected to work in front and/or behind the camera for this class, and will also demonstrate technical proficiency in the use of modern media production tools.

VIDEO PRODUCTION 1 (9, 10, 11, 12) .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

This course provides students the opportunity to learn the fundamentals of video production using current industry standard equipment and software. Skills taught will include camera operation, audio recording, video editing, and digital age team collaboration and interpersonal skills. These skills are required and benefit students in high school and in all post-secondary settings. Students will create personal videos for a portfolio including -- but not limited to -- a personal narrative, storytelling, and a documentary.

VIDEO PRODUCTION 2 HONORS (10, 11, 12) 1 CREDIT

Students become content creators in narrative genres and documentary genres. Storytelling technique is emphasized in all projects as students continue to refine their use of equipment and editing techniques with increasing sophistication towards professionalization to match current industry practices. Emphasis is placed on collaboration to complete projects by leveraging the skills of the collective production team. Students will learn the different job roles of writer, producer, director, cinematographer, audio specialist, gaffer, and editor with successive projects, so that each student may start to articulate his/her individual film making voice.

Prerequisite: Video Production and permission of instructor.

VIDEO PRODUCTION 3 HONORS (11, 12) 1 CREDIT

Individual expression is explored and encouraged in this year of study. Students will create a large-scale individual professional quality project or multiple smaller professional quality projects that are thematically or genre linked. Additionally, students are required to collaborate on at least two other student projects of similar rigor. The third year offers students the opportunity to create a professional portfolio of products that demonstrate independence and professionalism as content creators. The portfolio may address one or many content areas of video production. The portfolio may be used for: college applications, career applications, social activism, artistic expression, and/or entrepreneurial endeavors. While students work on larger scale individual projects they will learn organizational competence through project management techniques related to pre-production, production, post production, marketing, and stakeholder relations.

Prerequisite: Video Production 2 and permission of instructor.

VIDEO OPTIONS* UP TO 1 CREDIT

Neutrally Weighted

Individual expression is explored and encouraged in this course of study. This course is for the video student that is already signed up for a video class but would like to take additional video training in the same year. For that reason, the teacher and student will map out an individual area of focused study aimed at enriching the student further than they would be in any of the other video classes.

*This course is based on availability and room within a student's schedule and may only be selected after the school year begins.

ENGLISH LANGUAGE DEPARTMENT (ELD)

Identified English Language Learners are placed per their English Proficiency Level into the appropriate ELD course. Technology is used to enhance learning and these courses may be used as English credit.

ELD 1A Level: Entering and Beginning 1 CREDIT

ELD 1A emphasizes academic and interpersonal communication skills in the English language. Students whose primary or home language is other than English benefit from this class. Students learn vocabulary, background knowledge, and strategies through direct instruction, content, and technology.

ELD 1B & 1C Level: Entering and Beginning 1 CREDIT

ELD 1B and 1C taken concurrently or consecutively with ELD 1A allows students the time, pacing, and practice necessary for completion of the ELD 1 curriculum. Reinforcement and extension of content area vocabulary, background knowledge, and learning strategies occurs, as well as using the target language in academically, socially, and culturally appropriate ways.

ELD 2A Level: Developing 1 CREDIT

ELD 2A continues to emphasize academic and interpersonal skills and vocabulary development, along with academic reading, writing and grammar. Skills acquired help students succeed in school by teaching them learning and reading strategies necessary to access the curriculum.

ELD 2B & 2C Level: Developing 1 CREDIT

ELD 2B and 2C taken concurrently or consecutively with ELD 2A allows students the time, pacing, and practice necessary for completion of the ELD 2 curriculum. Reinforcement and extension of content area vocabulary, background knowledge, and learning strategies occurs, as well as using the target language in academically, socially, and culturally appropriate ways.

ELD 3A Level: Expanding 1 CREDIT

ELD 3A emphasizes reading, writing, and learning strategies that enable students to achieve success in the academic classroom. The class includes vocabulary acquisition, grammar skills, oral presentations, writing, and reading activities.

ELD 3B & 3C Level: Expanding 1 CREDIT

3B and 3C taken concurrently or consecutively with ELD 3A allows students the time, pacing, and practice necessary for completion of the ELD 3 curriculum. Reinforcement and extension of content area vocabulary and learning strategies occurs, as well as using the target language in academically, socially and culturally appropriate ways.

ELD 4A Level: Bridging 1 CREDIT

ELD 4 focuses on refining reading, writing, and learning skills necessary for research projects, papers, PowerPoint, and other academic work. Students study advanced grammar, acquire specialized vocabulary, complete research projects, and practice extended oral discourse.

ELD 4B & 4C Level: Bridging 1 CREDIT

ELD 4B and 4C taken concurrently or consecutively with ELD 4A allows students the time, pacing, and practice necessary for completion of the ELD 4 curriculum. Reinforcement and extension of content area vocabulary and learning strategies occurs, as well as using the target language in academically, socially, and culturally appropriate ways.

FAMILY CONSUMER SCIENCE COURSES

CHILD DEVELOPMENT

CHILD DEVELOPMENT PRESCHOOL LABORATORY 1 (9, 10, 11, 12) 1 CREDIT

Neutrally Weighted

Students engage in learning about the physical, social, and emotional development of children while having the opportunity to apply their knowledge through interaction with 3 to 5 year-old children in our on-site preschool laboratory. Students engage in lesson plan development that incorporate PA academic standards, including literacy, science, and math.

CHILD DEVELOPMENT PRESCHOOL LABORATORY 2 (10, 11, 12) 1 CREDIT

Neutrally Weighted

This course focuses on the preschool age child. Students engage in real life child development experiences and become skilled in planning and implementing a variety of activities including the implementation of formal lessons. Students are involved in facilitating the physical, social, and emotional development of the child. Social skills, study skills, and literacy development are emphasized as students implement strategies aimed at the growth and development of the preschool aged child. This course prepares students for further education in a child related career.

Prerequisite: Successful completion of Child Development Preschool Laboratory 1.

EDUCATING THE PRESCHOOL CHILD HONORS (11, 12) 1 CREDIT

In this course, students will utilize the Pennsylvania Preschool State Standards to develop lessons based on current WCASD math, science, and literacy programs to create a bridge to the District's kindergarten curriculum. Students will also mentor Child development 1 and 2 students in best practice for creation of interactive classroom displays based on PA State Standards. They will assist the teacher in major event planning for holiday and school events and develop skills in administrative areas such as communication with parents and teachers. They will assist in managing classroom procedures and evaluate and be evaluated with the use of rubrics.

Prerequisite: Successful completion of Child Development Preschool Laboratory 1 and 2.

EDUCATIONAL CAREER INTERNSHIP HONORS (12) 1 OR 2 CREDITS

This course involves students in real world experiences in a school setting. Students work closely with their internship teacher and classroom teachers in WCASD schools. Students participate in observations of WCASD students, planning and teaching lessons, and supporting student learning through mentoring and tutoring. Students must drive to their partnership individually. Professional dress is required.

Prerequisite: Successful completion of a Child Development 1 and 2 .



CULINARY ARTS

INTRODUCTION TO FOOD PREPARATION (9, 10, 11, 12) 1 CREDIT

Neutrally Weighted

Students engage in proper selection, preparation, planning, and storage of foods in this interdisciplinary introduction into the culinary world. Students employ a variety of cooking and baking skills, and expand their knowledge in the essentials of safety, sanitation, measurement, and nutrition. Teacher demonstrations, student cooking labs, and technology are an integral part of the course. Recipe topics include: pastries, quick breads, pasta and other grains, proteins, salads, vegetarian dishes, and much more.

REGIONAL AND INTERNATIONAL CUISINE (10, 11, 12) 1 CREDIT

Neutrally Weighted

This course builds on the skills developed in Introduction to Food Preparation by exploring the foods that were founded in the different regions of the United States, and investigating international cuisine and culture. Students actively participate in the development of more complex culinary skills while experimenting with different types of recipes and ingredients.

Prerequisite: Successful completion of Introduction to Food Preparation

CULINARY ARTS (10, 11, 12) 1 CREDIT

Neutrally Weighted

The course emphasizes kitchen operations, catering, food preparation, and baking skills in a school-based, state-of-the-art culinary facility and explores entrepreneurship within the hospitality industry. Practical experiences, including recipe conversion, measurements, specialized terminology, classical knife cuts, safe food and equipment handling, flavorings and seasonings, stocks/sauces/soups, and mise en place are emphasized. Upon completion, students will be able to independently demonstrate a broad range of cooking and baking skills.

Prerequisite: Successful completion of Introduction to Food Preparation and teacher recommendation.

PASTRY BAKESHOP (10, 11, 12) 1 CREDIT

Neutrally Weighted

Desserts can be the highlight of any menu. This course teaches basic skills in pastry artistry and explores entrepreneurship and food-related careers. Students learn techniques of baking sweet and savory pastries and breads which are available through our pastry shop. Entrepreneurial projects are periodically assigned and emphasis is placed on practical experiences, which allow students to participate in the catering events which take place throughout the year.

Prerequisite: Successful completion of Introduction to Food Preparation and teacher recommendation.

FAMILY & CONSUMER SCIENCES OPTIONS*

UP TO 1 CREDIT

Neutrally Weighted

In September, students who have the same study hall three or four days a week may arrange with a family and consumer sciences teacher and the school counselor to schedule into that time slot a course on a partial credit basis. They must take the course which is offered during that time and may not duplicate a course already completed. This is not an independent study situation.

*This course is based on availability and room within a student's schedule and may only be selected after the school year begins.

HEALTH & PHYSICAL EDUCATION COURSES

HEALTH COURSES

HEALTH FITNESS (9) **1 CREDIT**

In order to reinforce information learned in the classroom environment with activities experienced in the physical education setting, health and physical education are combined into one course that meets five days per cycle. This course provides the opportunity for students to develop an optimal level of fitness and to create an understanding of how fitness concepts can be applied for personal improvement and disease prevention. A primary objective is for students to be able to assess their own fitness level and develop a physical fitness program to achieve personal goals. Students utilize heart monitors in the assessment of their exercise intensity and cardiovascular fitness. Information from heart monitors may be utilized to analyze student progress. In addition to the focus on fitness, other key elements of wellness include nutrition, stress, drugs and alcohol, and health-related decision making.

HEALTH (10) **.6 CREDIT**

Blended learning class - 2 days in-class/1 day online learning

Designed to motivate and encourage active participation in developing life skills for optimal mental, social, and physical health, this course guides students to apply health information and interpersonal and social skills to promote healthy behaviors. Emphasis is placed on developing personal and social competence in using decision-making, communication (including assertiveness and refusal skills), stress management, and goal setting skills. These skills are integrated across content areas in the units of study that reflect the National and State Health Education Standards. This class is scheduled two days per week for the entire year.

PHYSICAL EDUCATION COURSES

PHYSICAL FITNESS (10) **.4 CREDIT**

Students are provided the opportunity to enhance their understanding of health and skill-related fitness components. This focus allows students to develop experiences, attitudes, knowledge, and skills that promote adherence to an active lifestyle. Students may utilize heart rate monitors while involved in fitness activities and sports as a way of assessing their effort and progress in cardiovascular fitness. Throughout this course, students will analyze their fitness level and set personal goals that incorporate all the components of fitness. A personal fitness plan will be developed to assess understanding of training principles and personal improvement. Students will also focus on problem-solving activities that help them to develop skills necessary for working with others. This class is scheduled two days per cycle for the entire year.

PERSONAL FITNESS TRAINING (11, 12) **.4 CREDIT**

Personal Fitness Training is designed for students who wish to maintain and/or improve personal fitness without engaging in team sports. This course combines weight training, flexibility, and cardiovascular endurance activities designed to enhance overall fitness. Principles and concepts of exercise will be emphasized as well as training methods and techniques. Heart rate monitors will be utilized to assess cardiovascular performance. Personal Fitness Training is scheduled two days per cycle for the entire year.

SPORT PHYSICAL EDUCATION B (11, 12) .4 CREDIT

The Sport PE program offers students the opportunity to engage in a wide variety of activities in which the emphasis is placed on promoting and maintaining a healthy, active lifestyle. Students participate in a variety of team and individual sports that lead to lifetime fitness. Students will become knowledgeable about various sports and activities, and recognize how the sports/activities contribute to a healthy lifestyle. Sport PE is scheduled two days per week for the entire year.

ADVANCED PHYSICAL EDUCATION 1 - INDIVIDUAL (12) .5 CREDIT/SEMESTER COURSE

Designed for students with a strong interest in physical education, recreation and related fields, students are challenged to learn more about individual activities and explore topics not covered in the traditional physical education program. Students experience the art of teaching skills and techniques to others, as well as planning and conducting an activity for community involvement. In addition, students are exposed to a variety of career related opportunities in this area. This class is scheduled 5 days per cycle for one semester.

Prerequisites: Successful completion of physical education in grades 9, 10, and 11; exhibit good sportsmanship and fair play; demonstrate a high level of participation and cooperation; teacher recommendation from PE 11 or Advanced PE teacher.

ADVANCED PHYSICAL EDUCATION 2 - TEAM SPORTS (12) .5 CREDIT/SEMESTER COURSE

Designed for students who have a strong interest in physical education, recreation, and related fields, students are challenged to learn more about team activities and also explore a variety of topics not covered in the traditional physical education program. Students experience the art of teaching skills and techniques to others as well as officiating, coaching, and designing team strategies. In addition, students are exposed to a variety of career related opportunities in the area. This class is scheduled 5 days per cycle for one semester.

Prerequisites: Successful completion of physical education in grades 9,10, and 11; exhibit good sportsmanship and fair play; demonstrate a high level of participation and cooperation; teacher recommendation from PE 11 or Advanced PE teacher.



MATHEMATICS COURSES

ALGEBRA 1A 1 CREDIT

This is part 1 of a 2-year Algebra experience for students. Algebra 1A covers the first half of the Algebra content and provides additional time for students to explore the content and make connections to the abstract topics in the course. Topics include functions, one-variable equations as well as a focus on linear equations.

ALGEBRA 1B 1 CREDIT

This course serves as the second part of the Algebra 1 curriculum and focuses on systems of equations, exponents and polynomials. Additional time is provided to assist students with exploring concepts through multiple methods. At the conclusion of this course, students will have learned all of the content contained on the Algebra Keystone Exam.

ALGEBRA 1 CAREER & COLLEGE PREP (9) 1 CREDIT

Content includes the tools of algebra, solving equations and inequalities, proportions, graphs and functions, systems of equations and inequalities, polynomials, radicals, and rational expressions. Course material is presented with representational and abstract applications of algebraic skills and concepts.

Prerequisite: Successful completion of Pre-Algebra.

ALGEBRA 1 HONORS (9) 1 CREDIT

Throughout this course, students engage in algebraic reasoning and advanced applications of content. Content includes the tools of algebra, solving equations and inequalities, proportions, graphs and functions, systems of equations and inequalities, polynomials, radicals, and rational expressions. Course material is explored with representational and abstract applications of algebraic skills and concepts.

Prerequisite: Successful completion of Pre-Algebra.



GEOMETRY CAREER & COLLEGE PREP  (10) 1 CREDIT

Content includes reasoning and proof, parallel and perpendicular lines, congruent triangles, relationships within triangles, quadrilaterals, area, similarity, right triangle trigonometry, surface area and volume, circles, and transformations. The content is presented with representational and abstract applications of the geometric skills and concepts taught.

Prerequisite: Successful completion of Algebra 1.

GEOMETRY HONORS  (9, 10) 1 CREDIT

Presented with advanced applications of geometric skills and concepts, content includes tools of geometry, deductive and inductive reasoning and rigorous proof, parallel and perpendicular lines, congruent triangles, properties of triangles, quadrilaterals, area, similarity, right triangle trigonometry, surface area and volume, circles, and transformations.

Prerequisite: Successful completion of Algebra 1.

GEOMETRY ACCELERATED HONORS  (9, 10) 1 CREDIT

Content includes deductive and inductive reasoning and comprehensive proof, perpendicular and parallel lines, congruent triangles, properties of triangles, quadrilaterals, transformations, similarity, right triangles and trigonometry, circles, and surface area and volume. The content is presented with complex applications of geometric skills and concepts.

Prerequisite: Successful completion of Algebra 1.

ALGEBRA 2 CAREER & COLLEGE PREP  (11) 1 CREDIT

Course content is presented with representational and abstract applications of algebraic skills and concepts: functions, equations, graphs, linear systems, matrices, quadratic equations and functions, polynomials, radical functions, rational exponents, exponential and logarithmic functions, rational functions, sequences and series, probability and statistics.

Prerequisite: Successful completion of or concurrent enrollment in Geometry.

ALGEBRA 2 HONORS  (10) 1 CREDIT

Content includes equations and inequalities, linear equations and functions, systems of linear equations and inequalities, matrices, quadratic functions, polynomials and polynomial functions, powers, roots and radicals, exponential and logarithmic functions, rational equations and functions, quadratic relations, sequences and series, probability and statistics. The content is presented with advanced applications of algebraic skills and concepts.

Prerequisite: Successful completion of or concurrent enrollment in Geometry.

ALGEBRA 2 ACCELERATED HONORS  (9, 10) 1 CREDIT

Presented with complex applications of algebraic skills and concepts, content includes equations and inequalities, linear equations and functions, systems of linear equations and inequalities, matrices, quadratic functions, polynomials and polynomial functions, powers, roots and radicals, exponential and logarithmic functions, rational equations and functions, quadratic relations and conic sections, sequences and series, probability, statistics and trigonometric ratios.

Prerequisite: Successful completion or concurrent enrollment in Geometry Accelerated Honors or Honors.

PRE-CALCULUS CAREER & COLLEGE PREP  (11, 12) 1 CREDIT

Presented with real-world applications of mathematical skills and concepts, this course will prepare students for the study of calculus. Content includes functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, analytic functions, topics in trigonometry, linear systems and matrices, sequences, series, probability, and analytic geometry in two and three dimensions.

Prerequisite: Successful completion of Algebra 2.

PRE-CALCULUS HONORS  (10, 11) 1 CREDIT

This course will prepare students for the in-depth study of college-level calculus. Content includes functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, analytic functions, topics in trigonometry, linear systems and matrices, sequences, series, probability, analytic geometry in two and three dimensions. The content is presented with advanced applications of mathematical skills and concepts.

Prerequisite: Successful completion of Algebra 2

PRE-CALCULUS ACCELERATED HONORS  (10, 11) 1 CREDIT

Presented with complex applications of mathematical skills and concepts, this course will prepare students for rigorous study of college-level calculus. Content includes functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, analytic functions, topics in trigonometry, linear systems and matrices, sequences, series, probability, analytic geometry in two and three dimensions.

Prerequisite: Successful completion of Algebra 2 Honors or Accelerated Honors

CALCULUS HONORS  (11, 12) 1 CREDIT

As an introduction to college-level calculus, course content includes a review of the prerequisites for calculus, including algebraic, exponential, logarithmic, and trigonometric functions, limits, and continuity, derivatives, applications of derivatives, the definite integral, differential equations and mathematical modeling. This course is not intended to prepare students for the Advanced Placement (AP) examination.

Prerequisite: Successful completion of Pre-calculus

ADVANCED PLACEMENT CALCULUS AB  (11, 12) 1 CREDIT

Designed to prepare students for the AB level of the Advanced Placement examination in Calculus, topics include algebraic, trigonometric, exponential and logarithmic functions, limits, derivatives, continuity, applications of the derivative, anti-derivatives, definite integrals, and applications of integration.

Prerequisite: Successful completion of Pre-calculus

ADVANCED PLACEMENT CALCULUS BC  (11, 12) 1 CREDIT

This is an University of Pittsburgh College in the High School approved course

Designed to prepare students for the BC level of the Advanced Placement examination in Calculus, topics include functions, limits, derivatives, continuity, polar coordinates, vector functions and derivatives, indeterminate forms, applications of the derivative, anti-derivatives, definite integrals, improper integrals, and applications of integration, sequences, series, convergence, and elementary differential equations.

Prerequisite: Successful completion of Advanced Placement Calculus AB.

INTRO TO MATRICES AND LINEAR ALGEBRA (11,12) 1 credit

Accelerated Honors Weighted

This course prepares students for studies in the areas of mathematics, engineering, computer science, physics, and related fields with applied topics that highlight vectors, matrices, determinants, linear transformations, eigenvalues and eigenvectors.

Prerequisite: successful completion of AP Calculus BC

INTRO TO STATISTICS & FINANCIAL LITERACY CAREER & COLLEGE PREP (12) 1 CREDIT

As an introduction to mathematical concepts that are typically covered in a first-year liberal arts college-level mathematics course, statistical topics will include the collecting and analyzing of data with an emphasis on spreadsheet manipulation. Additional topics vary and may include a study of number theory, logic, sets and set theory, probability, mathematical modeling and problem solving. Financial Literacy will be an additional focus of the curriculum throughout the year. This course is offered at a pace and level of rigor that varies significantly from Statistics Honors.

Prerequisite: Successful completion of Geometry

STATISTICS HONORS C (10, 11, 12) 1 CREDIT

Designed to introduce students to the concepts and tools for collecting, analyzing, and drawing conclusions from data, topics include exploring and understanding data, exploring relationships between variables, gathering data, randomness and probability. The concept of sampling and the properties of sampling distributions are studied as a foundation to inferential statistics. This course will not prepare students to take the Advanced Placement Statistics examination.

Prerequisite: Successful completion of Algebra 2

STATISTICS HONORS THROUGH SPORTS ANALYTICS C (10, 11, 12) 1 CREDIT

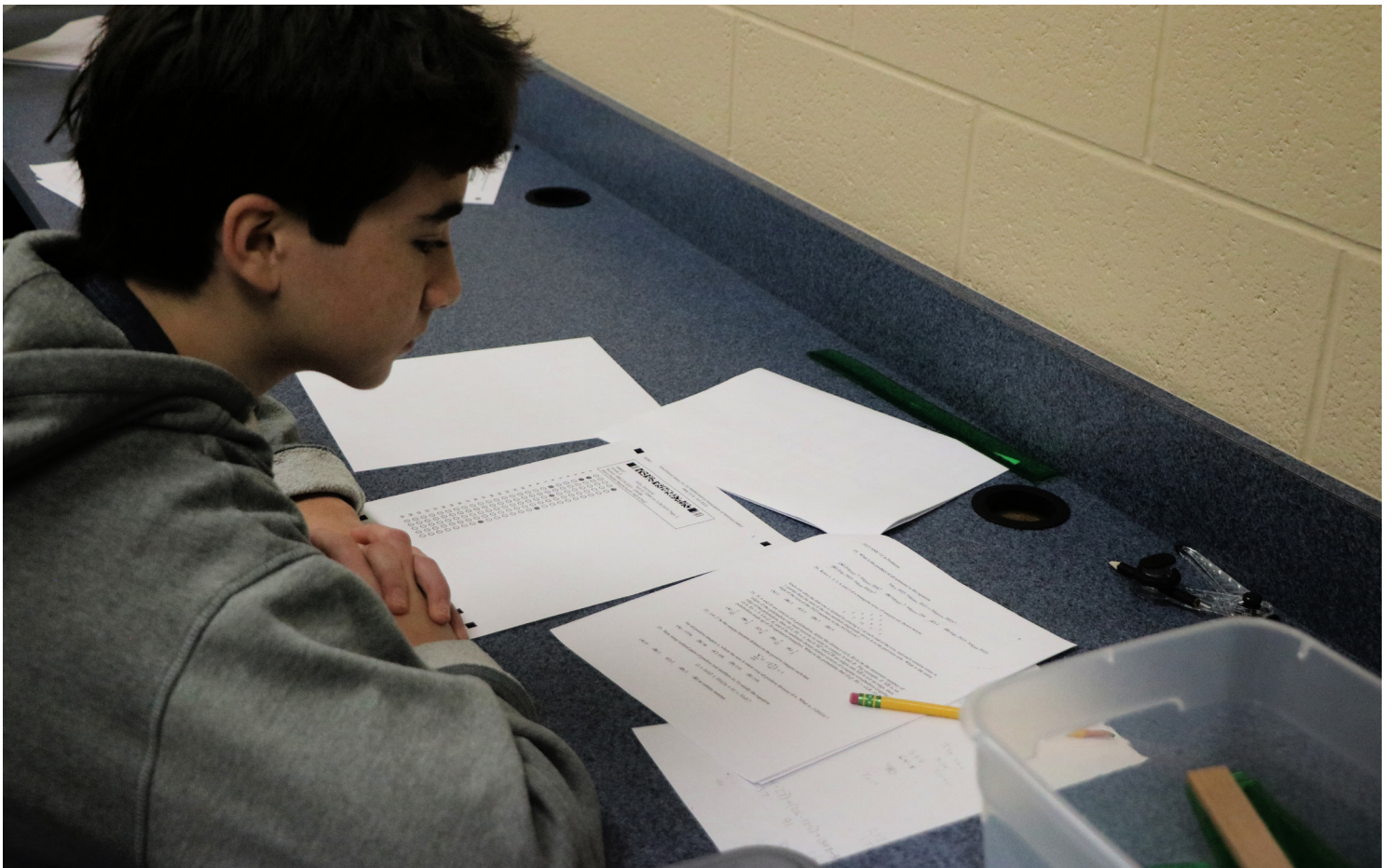
This course will cover the same set of topics and standards as Statistics Honors while focusing on the use of data and quantitative methods to measure performance and decision-making processes in the world of sports. Students will collect and analyze data from men's and women's sports and identify relationships between variables and discuss randomness, probability and sampling distributions. This course is designed to include critical thinking, mathematical modeling, statistical & predictive analysis, optimization and simulation. These skills will be applied to various elements of sports, but are equally useful in many other areas and careers.

Prerequisite: Successful completion of Algebra 2

ADVANCED PLACEMENT STATISTICS C (10, 11, 12) 1 CREDIT

As an introduction to the concepts and tools for collecting, analyzing, and drawing conclusions from data in preparation for the Advanced Placement examination in Statistics, topics include exploring data (observing patterns and departures from patterns), planning a study (deciding what and how to measure), anticipating patterns (producing models using probability theory and simulations), and statistical inference (confirming models).

Prerequisite: Successful completion of Algebra 2



MUSIC COURSES

Music courses count towards the 2.0 Arts/Humanities Credit required for graduation.

HONORS CONCERT BAND (9, 10, 11, 12) .6 CREDIT/3 DAYS A CYCLE

Students who play band instruments have the opportunity to perform many styles of band literature from the classical to contemporary period. The development of musical knowledge, instrument performance skills, and self-discipline - while working together as a unified ensemble - are important factors of Concert Band.

Prerequisites: Basic command of a band instrument meeting high school curriculum requirements, and recommendation by the middle school band director.

HONORS JAZZ BAND (9, 10, 11, 12) .4 CREDIT/ 2 DAYS A CYCLE

This ensemble provides instrumentalists an opportunity to perform and develop their skills in a variety of musical styles, such as blues, swing, Latin, fusion, rock, pop, and more. The focus of the ensemble is to develop skills in improvisation and ensemble playing for beginning to intermediate players. Practice and preparation of music is essential.

Prerequisites: Experience on a primary instrument OR a recommendation from the director to play a secondary instrument.

ACCELERATED HONORS WIND ENSEMBLE (9, 10, 11, 12) .6 CREDIT/3 DAYS A CYCLE

Select students who play band instruments at a high level are provided the opportunity to perform many styles of advanced band literature from the classical and contemporary periods. Prerequisites: High command of a band instrument meeting curriculum requirements, balanced instrumentation, and a successful audition by the director.

ACCELERATED HONORS JAZZ BAND (9, 10, 11, 12) .4 CREDIT/ 2 DAYS A CYCLE

This ensemble specializes in advanced jazz literature and provides the more talented jazz instrumentalists an opportunity to perform advanced music in the style of influential jazz pioneers. The focus of this ensemble is to develop and refine the skills of advanced jazz performers. Music selection such as: Blues, Swing, Latin, Fusion, and Rock may be included in the Jazz Band repertoire. A high ability level of improvisation should be demonstrated.

Prerequisites: High command of a jazz band instrument, meeting curriculum requirements, and successful audition by the director and appropriate instrumentation for Jazz Ensemble Music (one person on a part). Student must participate in Honors Concert Band or Advanced Honors Wind Ensemble to be considered. (Exceptions include piano, guitar, or bass players.)

HONORS STRING ORCHESTRA (9, 10, 11, 12) .6 CREDIT/3 DAYS A CYCLE

Open to string students who demonstrate a reasonable proficiency on their instrument, students enhance their technical and listening skills and learn the importance of teamwork.

Prerequisites: Basic command of a string instrument meeting high school curriculum requirements, and recommendation by the middle school orchestra director.

ACCELERATED HONORS CHAMBER ORCHESTRA (9, 10, 11, 12) .4 CREDIT/2 DAYS A CYCLE

This ensemble prepares and performs advanced repertoire with emphasis placed on individual musicianship. Students are presented with the opportunity to study varied genres of musical literature at an accelerated level.

Prerequisite: Students must participate in the Honors String Orchestra. High command of their respective instrument and high school curriculum are required. Eligibility is determined by audition with the orchestra director.

HONORS CONCERT CHOIR (9, 10, 11, 12) 1 CREDIT/5 DAYS A CYCLE

Concert Choir focuses on expanding student vocal technique while learning standard choral repertoire. Students will perform in concerts throughout the school year. Prerequisites: Freshman are required to have a recommendation from their Middle School Choral Director and completed a successful audition with the High School Director.

ACCELERATED HONORS CHAMBER CHOIR (10, 11, 12) .6 CREDIT/ 3 DAYS A CYCLE

Chamber Choir specializes in the performance of a cappella music, music for small ensembles, advanced choral literature, and music which suggests staging. Besides participating in annual concerts, this choir frequently performs at community events. Students are encouraged to audition for the PMEA District Chorus. Prerequisites: Students must have a successful audition with the High School Choral Director.

ENSEMBLE OPTIONS* (9, 10, 11, 12) VARIABLE CREDIT

Designed for students who want to take a specific ensemble class for partial credit due to scheduling conflicts. Students must choose the ensemble in which they wish to enroll and receive the permission of BOTH the ensemble director and their school counselor. This is NOT an independent study arrangement. Credit is determined by the number of days per week the student is enrolled in class.

*Since this course is based on availability and room within a student's schedule, this course may be selected only after the school year begins.

CURRICULAR MUSIC CLASSES

GUITAR (9, 10, 11, 12) .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

Students will explore their love of music through the guitar while enhancing their ability to access styles of music not always found in the traditional band, chorus or orchestra ensembles, such as pop or rock. Objectives include exploring the fundamentals of guitar performance, reading traditional notation, tablature and chord charts, playing individually as well as in groups, understanding the musical concepts of melody, harmony, rhythm, and form and to develop a deeper appreciation for all styles of music.

MUSICAL KEYBOARD (9, 10, 11, 12) .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

This semester course provides students the opportunity to learn keyboard techniques in a piano lab setting. An independent study approach is used to allow each student to proceed at their own pace. This course is highly recommended as a prerequisite for AP Music Theory.

MUSIC THEORY & COMPOSITION 1 (9, 10, 11, 12) .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

This semester-long course introduces students to the basic foundations of theory and composition. Students will develop skills in aurals, sight-singing, and musical dictation. Topics include melody, harmony, keyboarding, and part-writing. A music background in vocal or instrumental study is recommended. This course is highly recommended as a prerequisite for AP Music Theory.

ADVANCED PLACEMENT MUSIC THEORY (10, 11, 12) 1 CREDIT

AP Music Theory is for vocal or instrumental students who are interested in pursuing a career in music or who wish to demonstrate their advanced knowledge in the field. This course will build upon your knowledge of music, emphasizing the rules of theory and composition, ear training, sight singing, analysis and keyboard skills. Music from a variety of time periods will be studied. The AP Music Theory exam includes multiple choice questions as well as a variety of listening, performing, and analytical exercises. Prerequisites: Successful completion of Musical Keyboard I and Music Theory and Composition I OR music teacher recommendation.

VOCAL BROADWAY (10, 11, 12) .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

This is an introductory class intended for students of all musical backgrounds who want to learn about and perform the song repertoire of musical theatre. Students will have the opportunity to explore their love of Broadway through the study and performance of some of the most influential composers of musicals and how their songs reflect different facets of American society. At the conclusion of the course students will participate in a cabaret style performance to share their favorite songs of Broadway.

SCIENCE COURSES**BIOLOGY 1 CAREER & COLLEGE PREP  (9) 1 CREDIT**

Students investigate cell structure, cell processes, genetics, evolution, cell energetics, biochemistry, and ecology. Students will further develop their ability to write, read, and speak in the language of science.

BIOLOGY 1 HONORS  (9) 1 CREDIT

Students investigate the concepts of cell structure, cell processes, genetics, evolution, cell energetics, biochemistry, and ecology. Students will engage in guided inquiry while developing scientific reasoning and analysis skills.

BIOLOGY 1 ACCELERATED HONORS  (9) 1 CREDIT


Students investigate the concepts of cell structure, cell processes, genetics, evolution, cell energetics, biochemistry, ecology, and anatomy and physiology. Students will develop independent research skills while acquiring scientific reasoning and analytical skills.

Prerequisite: Science teacher recommendation

CHEMISTRY 1 CAREER & COLLEGE PREP  (10, 11, 12) 1.2 CREDITS/6 PERIODS

Students investigate matter and measurement, atomic theory, nomenclature, mole theory, chemical reactions, stoichiometry, gas laws, thermochemistry, quantum theory, periodicity, chemical bonding, and solutions. A laboratory program is included to reinforce concept development and engage the students with the process of scientific investigations. Students will utilize calculations to study the quantitative aspects of chemistry.

Prerequisites: Successful completion of Biology 1 and Algebra 1 or higher mathematics course.

CHEMISTRY 1 HONORS  (10) 1.2 CREDITS/6 PERIODS

Students investigate matter and measurement, atomic theory, nomenclature, mole theory, chemical reactions, stoichiometry, gas laws, thermochemistry, quantum theory, periodicity, chemical bonding, and solutions. A laboratory program is included to reinforce concept development and to engage the students with the process of scientific investigations. This course will require a more rigorous application of calculations that relate to the quantitative aspects of chemistry.

Prerequisites: Successful completion of Biology 1 and Algebra 1 or higher mathematics course.

CHEMISTRY 1 ACCELERATED HONORS  (10) 1.2 CREDITS/6 PERIODS

Students apply independent research skills while studying matter, measurement, atomic theory, nomenclature, mole theory, chemical reactions, stoichiometry, gas laws, thermochemistry, quantum theory, periodicity, chemical bonding, solutions, kinetics, equilibrium, and acids and bases. The laboratory program is designed to expand upon concepts and further develop analytical skills while engaging in the process of scientific inquiry. Students will interpret calculations that relate to the quantitative aspects of chemistry.

Prerequisites: Successful completion of Biology 1 and Algebra 1 or higher mathematics course.

ENVIRONMENTAL SCIENCE CAREER & COLLEGE PREP (10, 11, 12) 1 CREDIT

Intended for students who have successfully completed Biology I and are ready to explore environmental concerns before pursuing Chemistry I Career & College Prep. This course covers topics such as Earth as a dynamic system, ecosystems, biodiversity, population dynamics, the atmosphere, climate change, renewable and nonrenewable resources, alternative energy, and aquatics using a hands-on approach.

Prerequisite: Successful completion of Biology 1 and science teacher recommendation.

ENVIRONMENTAL SCIENCE HONORS (10, 11, 12) 1 CREDIT

Students investigate the concepts of Earth as a dynamic system, ecosystems, biodiversity, population dynamics, the atmosphere, climate change, renewable and nonrenewable resources, alternative energy, and aquatics. Students will engage in guided inquiry while developing scientific reasoning and analysis skills.

Prerequisite: Successful completion of Biology 1 and science teacher recommendation.

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE (11, 12) 1.2 CREDITS/6 PERIODS

The AP Environmental Science course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental sustainability, chemistry, and geography.

Prerequisite: Successful completion of Biology 1 and Chemistry 1 and science teacher recommendation.

PHYSICAL SCIENCE CAREER & COLLEGE PREP (11, 12) 1 CREDIT

This course is intended for students who have successfully completed Environmental Science and are ready to explore the fundamental concepts of Physics and Chemistry before pursuing Chemistry 1 Career & College Prep, this course covers topics such as matter and measurement, structure of the atom, compounds, chemical reactions, gas laws, the mole, solutions, motion and force, work and energy, electricity and magnetism, and the universe using a hands-on approach.

Prerequisite: Successful completion of Biology 1 and Environmental Science.

PHYSICS 1 CAREER & COLLEGE PREP  (11, 12) 1.2 CREDITS/6 PERIODS

Students will explore mechanics, energy, waves, electromagnetism, and modern physics in this course. A laboratory program is included to reinforce concept development and engage the students with the process of scientific investigations. Students will utilize calculations to study the quantitative aspects of physics.

Prerequisite: Successful completion of Biology 1 and Chemistry 1.

PHYSICS 1 HONORS  (11, 12) 1.2 CREDITS/6 PERIODS

This comprehensive course covers mechanics, energy, waves, electro-magnetism, and modern physics. Students increase their understanding of the physical world through lectures, demonstrations, and laboratory experiments. This course is appropriate for students who are interested in a broader understanding of the sciences and are willing to do extensive mathematical problem solving. Students should anticipate daily homework.

Prerequisites: Successful completion of Biology 1 and Chemistry 1 and Geometry or higher mathematics course. Preferred concurrent enrollment in Algebra 2 Honors or higher mathematics course.

ADVANCED PLACEMENT PHYSICS 1 ALGEBRA-BASED  (11, 12) 1.4 CREDITS/7 PERIODS

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics by developing models of physical phenomena through inquiry-based investigations. Students build their understanding of physical models as they explore and solve problems in these topics: Newtonian mechanics, including rotational motion; work, energy, and power; mechanical waves and sound; simple circuits; and fluid mechanics. AP Physics 1 is a full-year course that is the equivalent of a first-semester introductory college course in algebra-based physics. In addition to preparing students to take the Advanced Placement Examination in Physics 1 Algebra-Based, this course meets 7 times per cycle to provide students with a true college-level laboratory experience.

Prerequisite: Successful completion of Biology 1 and Chemistry 1 and concurrent enrollment or completion of Algebra 2 Honors or higher level mathematics course.

EARTH & SPACE SCIENCE CAREER & COLLEGE PREP (11,12) 1 CREDIT

This course examines the continuum of earth, the atmosphere, and space science. The curriculum explores the principles and processes that shape the earth and the universe. Topics include the structure of the earth, rocks and minerals, weathering and erosion, geology, geomorphology, weather, climate, the origin and composition of the universe, the solar system, stars, and galaxies.

Prerequisites: Successful completion of Biology 1 and successful completion of Chemistry 1 or Environmental Science.

ADVANCED PLACEMENT BIOLOGY  (9, 10, 11, 12) 1.6 CREDITS/8 PERIODS

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions. The AP Biology course is equivalent to a two-semester college introductory biology course for biology majors. In addition to preparing students to take the Advanced Placement Examination in Biology, this course meets 8 times per cycle to provide students with a true college-level laboratory experience. Chemistry knowledge and strong math skills are required.

Prerequisites: Successful completion of Biology 1 and Chemistry 1 or science teacher recommendation.

ADVANCED PLACEMENT CHEMISTRY  (11, 12) 1.6 CREDITS/8 PERIODS

The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. In addition to preparing students to take the Advanced Placement examination in Chemistry, this course meets 8 times per cycle to provide students with a true college-level laboratory experience.

Prerequisites: Successful completion of Biology 1 and completion of or concurrent enrollment in Algebra 2 Honors or higher level mathematics course.

**ADVANCED PLACEMENT PHYSICS C: MECHANICS AND ELECTRICITY & MAGNETISM  (12)
1.6 CREDITS/8 PERIODS**

AP Physics C is a calculus-based introductory college-level physics course. Students cultivate their understanding of physics by developing models of physical phenomena through inquiry-based investigations. During the first half of the course, students build their understanding of advanced mechanics concepts. During the second half of the course, students build their understanding of advanced electricity and magnetism concepts. The use of calculus in problem-solving and derivations increases as the course progresses. In addition to preparing students to take the Advanced Placement Examinations in Physics C: Mechanics and Physics C: Electricity & Magnetism, this course meets 8 times per cycle to provide students with a true college-level laboratory experience.

Prerequisite: Successful completion of or concurrent enrollment in Chemistry 1 and successful completion of or concurrent enrollment in Calculus or science teacher recommendation.

SCIENCE ELECTIVES**AQUATIC ECOLOGY AND MARINE BIOLOGY HONORS (11, 12) 1.2 CREDITS/6 PERIODS**

This course is an interdisciplinary biological and environmental science course that focuses on freshwater and saltwater ecosystems, their influences on our community, and their connection to understanding global aquatic and marine ecosystems. Through various projects, laboratory activities, field studies, and research, the course will implement a multi-disciplinary approach to learning how communities, both local and global, rely on and impact water resources. This course will provide opportunities to explore current issues and topics in aquatic and marine science.

Prerequisites: Successful completion of Biology 1 and Chemistry 1.

ORGANIC CHEMISTRY AND FORENSICS HONORS (11, 12) 1.2 CREDITS/6 PERIODS

Students will explore the principles of structure and reactivity while analyzing the importance of functional groups and the role of stereochemistry in organic compounds. They will apply principles of organic chemistry, such as spectroscopy, to forensic analysis. Crime scene investigation protocols, the proper handling of physical and trace evidence, current laws and courtroom procedures will be examined from the perspective of a forensic scientist.

Prerequisites: Successful completion of Biology 1 and Chemistry 1.

HUMAN ANATOMY AND INFECTIOUS DISEASE HONORS (11, 12) 1.2 CREDITS/6 PERIODS

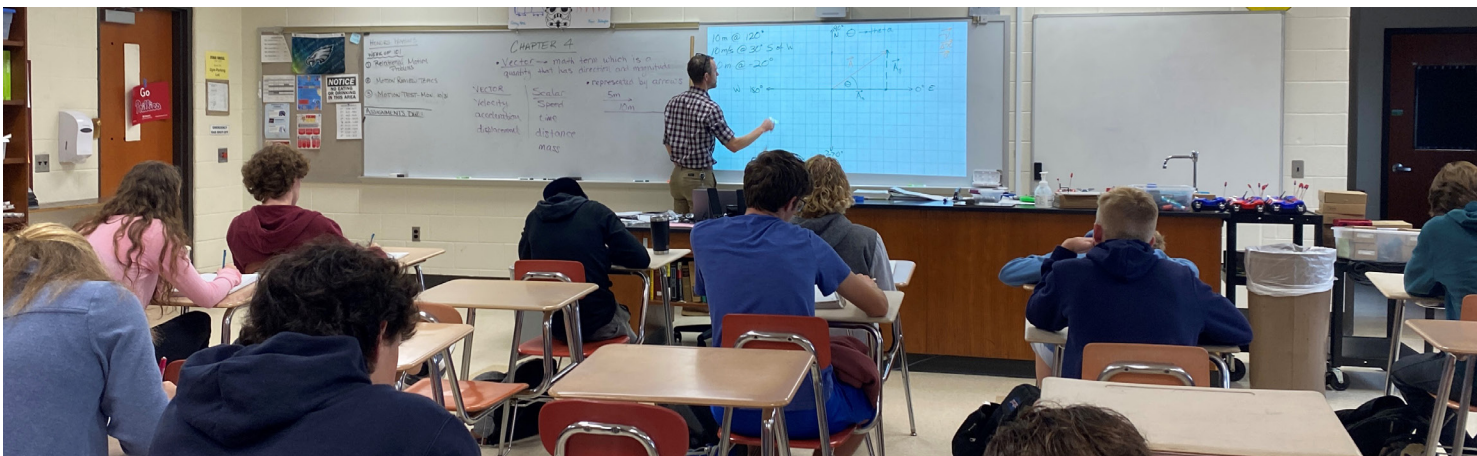
This course focuses on human anatomy and infectious diseases, covering the structural components of body systems, such as the integumentary, skeletal, muscular, nervous, digestive, cardiovascular, respiratory, and immune systems. The course emphasizes the interactions among these systems and how they are impacted by infectious diseases. In addition, the principles of how pathogens, such as bacteria, viruses, and other microbes, cause disease, symptoms, diagnosis, treatment, and prevention. There will be laboratory work including microscopic examination of prepared slides, development of dissection skills, and microbiology culturing and staining techniques.

Prerequisites: Successful completion of Biology 1 and Chemistry 1.

PHYSICS PRINCIPLES OF ENGINEERING HONORS (11, 12) 1.2 CREDITS/6 PERIODS

This course allows students to explore the use of physics to tackle modern engineering challenges and to apply engineering to address 21st-century questions in physics. Students will investigate the application of physics in different engineering disciplines (e.g., mechanical, electrical, civil) as well as mechanics in the context of engineering, structures, energy efficiency, electrical design, programming, electromagnetism, sound, and more. This course makes extensive use of laboratory experiments, hands-on projects, and student-driven research.

Prerequisites: Successful completion of Biology 1 and Chemistry 1 and completion of or concurrent enrollment in Career & College Prep Algebra 2 or higher level mathematics course.



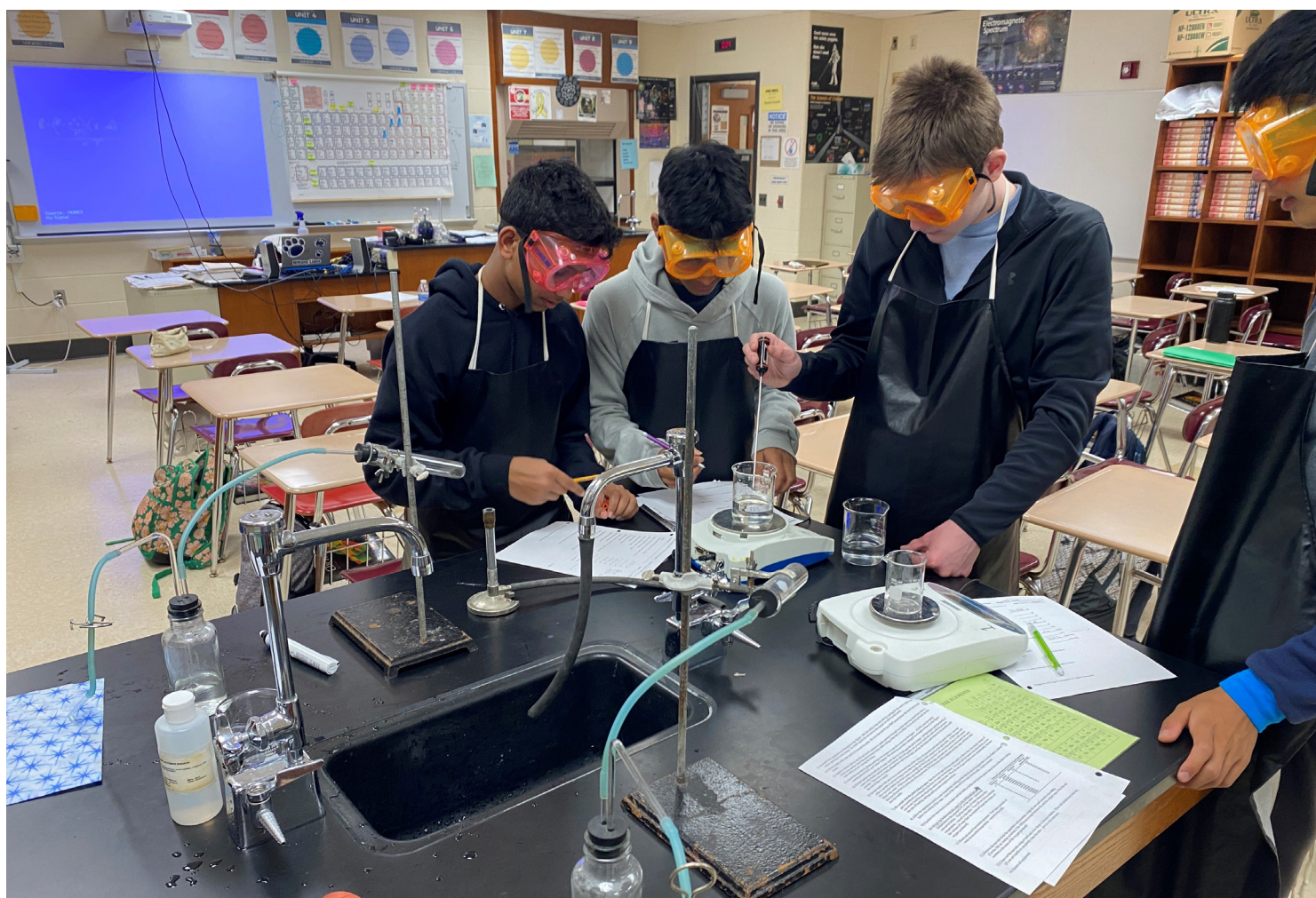
There are 2 Dual Enrollment courses offered on a rotating basis in conjunction with West Chester University. These courses will be taught on site by WCASD teaching staff. For 2024-2025 the course offered will be Advanced Geoscience: Oceanography and Meteorology. For 2025-2026 the course offered will be Advanced Geoscience: Astronomy and Geology. Students successfully completing this full-year college level course will receive six college credits from West Chester University.

ADVANCED GEOSCIENCE: OCEANOGRAPHY AND METEOROLOGY (11, 12) 2 CREDITS/6 PERIODS

This is a dual enrollment, credit by exam course offered in conjunction with West Chester University (WCU). The course will be taught on-site by WCASD teaching staff. Students who successfully complete this full-year college-level course and pass the WCU course examination will receive six college credits from WCU. During the first semester, students will explore the physical and biological processes in the oceans. In the second semester, students will investigate the fundamental processes that determine the weather and climate on Earth. Prerequisites: Successful completion of Biology 1 and Chemistry 1.

ADVANCED GEOSCIENCE: ASTRONOMY AND GEOLOGY (11, 12) 2 CREDITS/6 PERIODS

This is a dual enrollment, credit by exam course offered in conjunction with West Chester University. The course will be taught on-site by WCASD teaching staff. Students who successfully complete this full-year college-level course and pass the WCU course examination will receive six college credits from WCU. During the first semester, the students will examine the formation and composition of the universe. In the second semester, students will study the Earth's history, composition, and processes. Prerequisites: Successful completion of Biology 1 and Chemistry 1.



SOCIAL STUDIES COURSES

All students must successfully complete a minimum of four (4) credits of social studies courses in order to graduate.

9TH GRADE COURSE OPTIONS

AFRICAN-ASIAN CULTURES, 1 CREDIT

COLLEGE CAREER PREP / HONORS / ACCELERATED HONORS

Students trace the development of mankind from its prehistoric beginnings through the creation of the first civilizations in Egypt and Mesopotamia. Using a variety of resources, the cultures of Asia, Africa and the Middle East are studied through the present.

ADVANCED PLACEMENT HUMAN GEOGRAPHY, 1 CREDIT

This is a college level introductory course in Human Geography. Topics will focus on population, demographics, and migration; cultural patterns and process such as religion and cultural identity; the political organization of space, including the challenges to inherited political-territorial arrangements; land use issues, such as urbanization, settlement patterns, and modern agriculture; and industrial and economic development.

Students can also take this course as an elective in grades 10-12.

10TH GRADE COURSE OPTIONS

EUROPEAN & LATIN AMERICAN STUDIES CAREER & COLLEGE PREP / HONORS 1 CREDIT

Students will explore the people and history of both Europe and Latin America through a thematic study to better understand those modern societies.

ADVANCED PLACEMENT EUROPEAN HISTORY, 1 CREDIT

The course is organized into four historical periods that run from c. 1450 to the present. Students will learn European History through a range of historical thinking skills to investigate the thematic learning objectives.

Students can also take this course as an elective in grades 11-12.

11TH GRADE COURSE OPTIONS

UNITED STATES HISTORY, WW1 - TODAY, 1 CREDIT

CAREER & COLLEGE PREP/HONORS

Students continue the study of United States History begun in middle school. This course studies the story of America from the beginning of the 20th century to the present. In addition to examining the political history of modern America, students also consider social, economic and cultural developments.

ADVANCED PLACEMENT UNITED STATES HISTORY, 1 CREDIT (11)

This course is organized into historical periods that run from the precolonial era to the present and the key concepts, supporting concepts, and historical developments that are required knowledge for each period. Students will learn American History through thematic learning objectives and use historical thinking skills to analyze the material.

12TH GRADE COURSE OPTIONS

UNITED STATES GOVERNMENT & ECONOMICS, 1 CREDIT **CAREER & COLLEGE PREP / HONORS**

This course is a study of the American political and economic systems, and the examination of the workings of federal, state, and local governments. The United States Constitution is analyzed in terms of the rights and responsibilities of citizenship. Students also study economic concepts and acquire an understanding of the American economy.

ADVANCED PLACEMENT UNITED STATES GOVERNMENT & POLITICS, 1 CREDIT

This is an University of Pittsburgh College in the High School approved course
The course addresses the constitutional underpinnings of government, political behavior, the branches and functions of the government, and the major areas of national public policy. Those areas include economic and regulatory policy, social welfare policy, civil liberties and civil rights policy, foreign and national security policy, and other areas dictated by current events.

SOCIAL STUDIES ELECTIVES

These courses can be used to meet your 2.0 Arts & Humanities credit requirement.

AMERICAN MILITARY HISTORY 1, .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

This course explores all military aspects of United States involvement in combat (with an emphasis on the late 18th and 19th centuries), including logistical movement, strategy, military parlance, the study of weaponry and the impact upon society of war.

AMERICAN MILITARY HISTORY 2, .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

With an emphasis on the 20th century, this course covers detailed military aspects of United States involvement in combat including logistical movement, strategy, military parlance, the study of weaponry, and the impact upon society of war.

ADVANCED PLACEMENT ECONOMICS, 1 CREDIT (10, 11, 12)

This full-year, college-level course is an extensive examination of both Microeconomics and Macroeconomics. In Microeconomics, the students will gain a thorough understanding of the principles of economics as they apply to individuals and the firm (producers). The Macroeconomic portion gives the student an understanding of the principles of economics that apply to economic systems as a whole (aggregate).

Students taking this course will have the opportunity to take the Advanced Placement exam in both Microeconomics and Macroeconomics in May.

THE HOLOCAUST, .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

Students examine the holocaust in a historical context in order to better recognize what it means to be a responsible citizen in a democracy. The course begins with a study of anti-Semitism and of the Nazis before concluding with a study of the Holocaust. Some background in European history is recommended.

NOTE: Some topics may require a level of student maturity. Ninth grade students should have a strong interest in the subject.

PSYCHOLOGY, .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

An introduction to the methods and concepts of contemporary psychology, course topics include learning, personality, social and abnormality.

NOTE: Some topics may require a level of student maturity. Ninth grade students should have a strong interest in the subject.

ADVANCED PLACEMENT PSYCHOLOGY, 1 CREDIT (10, 11, 12) 

This course introduces the study of the behavior and mental processes of human beings and animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major sub fields within psychology. This course is highly interactive and reliant on independent effort, initiative, and critical thinking.

NOTE: Some topics may require a level of student maturity. This course is offered to 10th, 11th, and 12th grade students only.

RACE & ETHNICITY IN EARLY AMERICA, .5 CREDIT/SEMESTER COURSE (10,11,12) 

Neutrally Weighted

In this course, we will consider how race and ethnicity impact who gets what, when, and how. It will begin by surveying the historical issues of racial and ethnic minority politics in the United States up to the Civil War.

RACE & ETHNICITY IN MODERN AMERICA, .5 CREDIT/SEMESTER COURSE (10,11,12) 

Neutrally Weighted

In this course, students will explore how American politics are strongly influenced by historical issues surrounding race and ethnicity.

SOCIOLOGY, .5 CREDIT/SEMESTER COURSE

Neutrally Weighted

This course provides students with an introduction to the methods and concepts of modern sociology. Topics include childhood and adolescence, the adjustment to adulthood, prejudice and discrimination, love and marriage, and the problems of poverty in an affluent society.

NOTE: Some topics may require a level of student maturity. Ninth grade students should have a strong interest in the subject.

STOCKS & INVESTMENT, .5 CREDIT/SEMESTER COURSE 

Neutrally Weighted

In this introductory course, students "purchase" stocks and create investment portfolios through individual and team research, and by using simulation activities.

UNDERSTANDING LAW, .5 CREDIT/SEMESTER COURSE 

Neutrally Weighted

This course begins with an overview of constitutional and civil law, and then proceeds to study all aspects of the criminal justice system including arrest, trial and the penal system.

TECHNOLOGY & ENGINEERING COURSES

ENGINEERING DESIGN & ARCHITECTURE 1 HONORS (9, 10, 11, 12) 1 CREDIT

The first in a series of action-oriented, student-centered courses that provide an introduction to engineering, architecture, and design. Students will use Autodesk software including Auto CAD, Inventor, and Revit throughout the year creating a wide variety of 2-D, 3-D, isometric and orthographic drawings. Students will also use both traditional tools as well as the 3-D printer and Laser Cutter to design and construct prototypes as well as architectural models. This course is perfect for students with an interest in architecture, design, or engineering.

ENGINEERING DESIGN & ARCHITECTURE 2 HONORS (10, 11, 12) 1 CREDIT

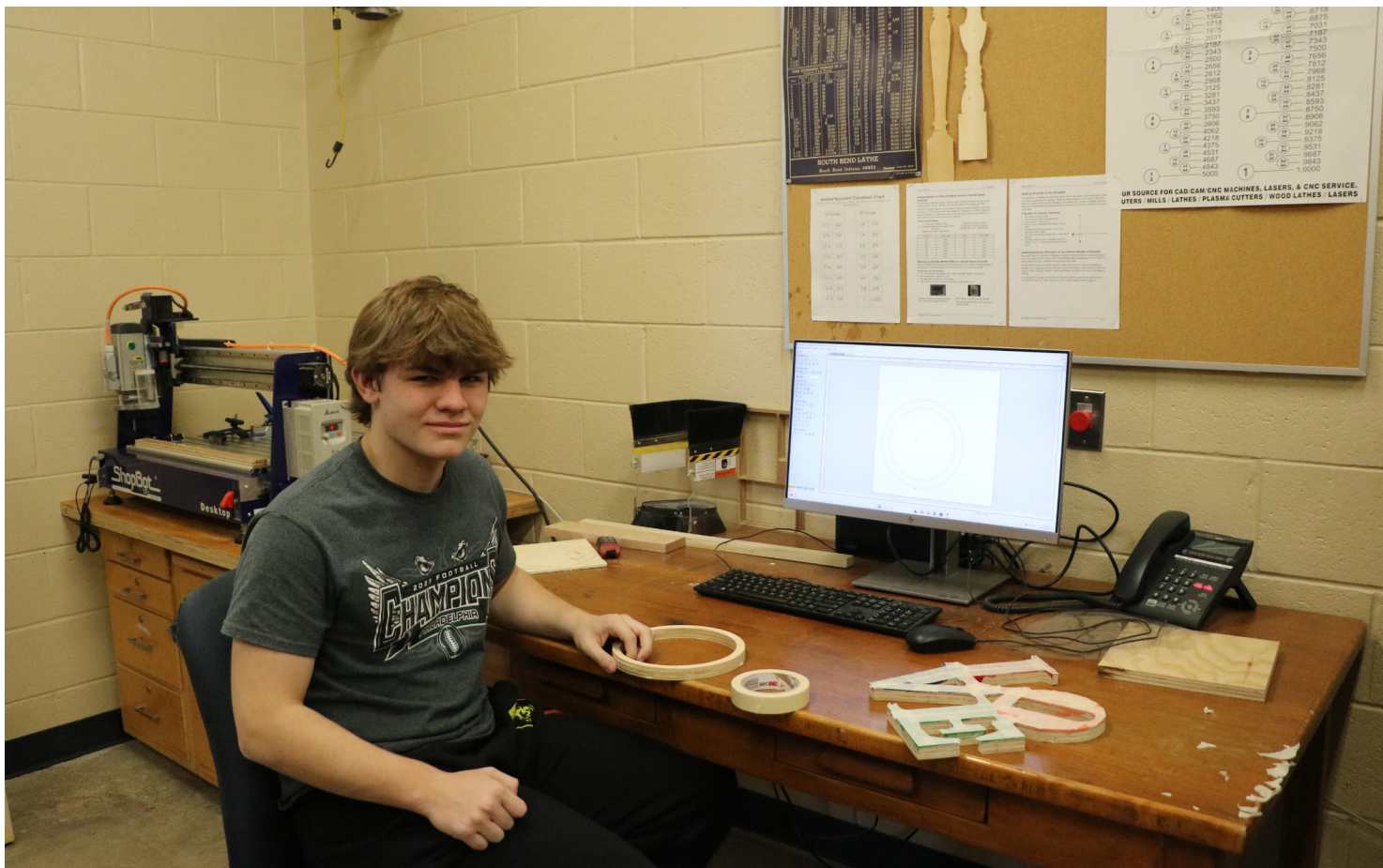
Students will continue to expand their learning in engineering design and Architecture. Students will be given advanced projects to replicate real world engineering and architecture problems using the Engineering Design process. Students will have expanded use of the 3-D printer and Laser Cutter to aid in the creation of their designs and prototypes.

Prerequisite: Successful completion of EDA 1.

ENGINEERING DESIGN & ARCHITECTURE 3 HONORS (11, 12) 1 CREDIT

At this level students are expected to build upon their skills in the fields of engineering and architecture disciplines. Students will be given a real world problems by the instructor and the goal is for the student to come up with a solution to the problem.

Prerequisite: Successful completion of EDA 2.





WOODWORKING & MATERIALS 1 (9, 10, 11, 12) 1 CREDIT

Neutrally Weighted

Students learn how to use hand tools, power tools, and stationary machines to safely construct and finish quality projects made of wood, metal and other materials. Product design, assembly, and finishing are covered at progressive levels of complexity and challenge. Students strive to develop a confident, "I can do" attitude while creating projects, learning safety and having fun.

WOODWORKING & MATERIALS 2 (10, 11, 12) 1 CREDIT

Neutrally Weighted

Students will continue to learn how to use tools and machines to safely construct and finish quality projects made of wood, metal and other materials. Students will integrate the use of the CNC router and Laser Cutter in producing projects. Students strive to develop a confident, "I can do" attitude while creating projects, learning safety and having fun.

Prerequisite: Successful completion of Woodworking & Materials 1.

WOODWORKING & MATERIALS 3 (11, 12) 1 CREDIT

Neutrally Weighted

Students will continue to learn how to use tools and machines to safely construct and finish quality projects made of wood, metal and other materials. Students will integrate the use of the CNC router and Laser Cutter in producing projects. Students strive to develop a confident, "I can do" attitude while creating projects, learning safety and having fun.

Prerequisite: Successful completion of Woodworking & Materials 2.

WOODWORKING & MATERIALS 4 (12) 1 CREDIT

Neutrally Weighted

Students will continue to learn how to use tools and machines to safely construct and finish quality projects made of wood, metal and other materials. Students will integrate the use of the CNC router and Laser Cutter in producing projects. Students strive to develop a confident, "I can do" attitude while creating projects, learning safety and having fun.

Prerequisite: Successful completion of Woodworking & Materials 3.

TECHNOLOGY & ENGINEERING OPTIONS* (11, 12) VARIABLE CREDIT

Neutrally Weighted

Students who desire to schedule one of the Technology Education courses described above, but who are unable to accommodate the required class meetings in their schedule, may arrange (with the permission of the Technology Education teacher and their School Counselor) to schedule the course on a partial credit basis. The student must attend regular scheduled meetings of the class in which he/she enrolls; this is not an independent study arrangement. Credit varies depending on the option selected and approved by the Technology Education Department.

*Since this course is based on availability and room within a student's schedule, students may only select this course after the school year begins.

WORLD LANGUAGE COURSES

These courses can be used to meet your 2.0 Arts & Humanities credit requirement.

The WCASD offers students the opportunity to enroll in one of five world languages:

- French 1, French 2, French 3 Honors, French 4 Honors, French 5 Accelerated Honors, AP French
- German 1, German 2, German 3 Honors, German 4 Honors, AP German
- Italian 1, Italian 2, Italian 3 Honors, Italian 4 Honors, AP Italian
- Latin 1, Latin 2, Latin 3 Honors, Latin 4 Honors, AP Latin
- Spanish 1, Spanish 2, Spanish 3 Honors, Spanish 4 Honors, Spanish 5 Accelerated Honors, AP Spanish

Students are encouraged to study a language for at least three consecutive years. Students who continue their language studies into advanced levels will have the opportunity to receive college credit through the AP Exam and apply for the PA Seal of Biliteracy.

Level Indicators: Derived from American Council on the Teaching of Foreign Languages (ACTFL)

By the end of Level 1, students can expect to be able to:

- Communicate basic information through memorized phrases using a limited vocabulary;
- Understand basic expressions and keywords when listening to native speakers at a slowed speech rate;
- Understand a limited amount of information in predictable texts.

By the end of Level 2, students can expect to be able to:

- Communicate short messages on familiar everyday topics using some strings of sentences and many memorized and learned phrases;
- Understand key words, cognates, and phrases across a range of texts;
- Understand short texts that convey basic information from sentence-length speech.

By the end of Level 3, students can expect to be able to:

- Communicate about personal information, basic needs, and common everyday contexts in strings of sentences;
- Ask and answer questions with some difficulty;
- Understand some information from simple connected texts and sentence-length speech;
- Write using short and simple sentences, often with repetitive structure, with basic word order and vocabulary.

By the end of Level 4, students can expect to be able to:

- Describe, explain and compare using basic sentence structures and verb forms in discrete sentences and/or questions;
- Communicate in social situations by using connected strings of sentences, high-frequency words and simple grammatical structures.
- Ask and answer questions with some detail about themselves and their immediate environment.
- Understand short, non-complex texts and simple sentence-length speech with a few misunderstandings.

By the end of Level 5*, students can expect to be able to:



- Communicate in situations that require an exchange of information;
- Narrate and describe in all major time frames using connected discourse of paragraph length, but not all the time.

- Understand, with ease and confidence, simple sentence-length speech and short, non-complex texts.
- Write compositions and simple summaries by narrating and describing in different time frames, often but not always, of paragraph length.

By the end of the AP level, students can expect to be able to:

- Communicate in a variety of situations by narrating and describing the major time frames of past, present, and future in paragraph-length discourse with some control of aspect.
- Speak and write by combining and linking sentences into connected discourse of paragraph length.
- Understand the main facts and some supporting details in short texts.
- Narrate and describe in the major time frames with some control.

We offer the following languages and levels of study:

	Level 1	Level 2	Level 3 Honors	Level 4 Honors	Level 5 Acc Hon	AP
French 	√	√	√	√	√	√
German	√	√	√	√	NA	√
Italian	√	√	√*	√	NA	√
Latin	√	√	√*	√	NA	√
Spanish 	√	√	√	√	√	√

* This is an University of Pittsburgh College in the High School approved course



CHESTER COUNTY TECHNICAL COLLEGE HIGH SCHOOL

The Chester County Technical College High School Brandywine Campus is a public high school specializing in Career and Technical Education (CTE) and available for students in grades 9 through 12. CTE programs prepare students for success in college, the workplace and life. All CTE programs at the Brandywine Campus are designated as High Priority Occupations (HPO) by the Pennsylvania Department of Labor and Industry and are aligned with the Pennsylvania State Academic Standards and national industry certifications.

CTE programs at the Brandywine Campus lead seamlessly to postsecondary education through the Pennsylvania Department of Education's (PDE) SOAR Programs of Study. The mission of SOAR is to prepare Students (who are) Occupationally and Academically Ready for college and careers in an increasingly diverse, high-performing workforce. Graduates of approved SOAR programs who meet challenging academic and technical criteria qualify for several FREE technical credits at over twenty-five participating colleges across Pennsylvania. These include the Pennsylvania College of Technology, Delaware County Community College, Clarion University, Thaddeus Stevens College of Technology, and Harcum College. For more information about SOAR and the complete list of participating colleges and postsecondary program, please go to <https://www.education.pa.gov/K-12/Career%20and%20Technical%20Education/Programs%20of%20Study/Pages/default.aspx>

- ▶ Traditional high school career and technical programs
- ▶ Traditional college courses
- ▶ Dual-enrollment classes that blend high school and for-credit college courses

Each program is described below. Additional information may be found at <https://www.cciu.org/domain/176>.

TCHS BRANDYWINE CAMPUS COURSES

AGRICULTURE, FOOD & NATURAL RESOURCES PATHWAY

ANIMAL SCIENCE

The Animal Science program prepares students to provide for the welfare of animals in the companion and production fields.

BAKING & PASTRY ARTS PROGRAM

The baking and pastry program provides students with the opportunity to gain the knowledge and skills needed to become an accomplished pastry artist.

CULINARY ARTS PROGRAM

This program provides students with experience in the kitchen through weekly skill rotations, restaurant opportunities and catering events.

VETERINARY SCIENCE PROGRAM

This program is a great fit for students with a passion for animals and a desire to pursue a career in veterinary medicine.

ARCHITECTURE & CONSTRUCTION PATHWAY

CARPENTRY PROGRAM

Unlike traditional woodshop electives, the Carpentry program offers students a more comprehensive, in-depth exploration of carpentry and construction.

ELECTRICAL OCCUPATIONS

Students who are passionate about electronics and hands-on building, installing and repairing of electrical systems will thrive in this program.

HVAC & REFRIGERATION TECHNOLOGY

In this program, students can expect to learn how to use industry standard tools, basic wiring and advanced electronics.

ARTS & COMMUNICATION PATHWAY

COMMERCIAL ART & DESIGN MEDIA

This program prepares creative students for admission to post-secondary art schools and entry-level employment in the graphic communications industry.

DIGITAL MEDIA & SOUND COMMUNICATION

Digital Media & Sound Communications offers students interested in content creation, production and multimedia communication the opportunity to develop the skills necessary to pursue careers in this growing field.

BUSINESS & INFORMATION SYSTEMS PATHWAY

COMPUTER INFORMATION SYSTEMS-NETWORKING

The Computer Information Systems-Networking program prepares students for high demand careers in the computer industry today.

MARKETING & FINANCIAL SERVICES

This program is an excellent fit for students who are interested in careers in marketing, financial services, social media and sales.

ENGINEERING & INDUSTRIAL TECHNOLOGIES PATHWAY

ELECTROMECHANICAL ENGINEERING TECHNOLOGY

Students who are excited about exploring, creating and designing solutions to everyday problems would be an excellent fit for the Electromechanical Engineering Technology program.

HEALTHCARE & HUMAN SERVICES PATHWAY

BARBERING

This program provides students with the skills to obtain licensure in the state of Pennsylvania, begin employment as a barber and develop a business plan.

COSMETOLOGY

Students can earn the required hours for state licensure as a cosmetologist, nail technician, esthetician or natural hair braider.

CRIMINAL JUSTICE & POLICE SCIENCES

This program prepares students for post-secondary education, military careers and employment in protective services.

EARLY CHILDHOOD CARE & EDUCATION

Being good with kids can turn into a career in the Early Childhood Care & Education program, which prepares students to earn their Child Development Associate (CDA) national credential.

HEALTH CAREER PATHWAYS

Students who are interested in helping others and being a part of a field with a lot of opportunities for growth are encouraged to enroll in the Health Career Pathways program.

SENIOR ONLY PROGRAMS

Current high school juniors who are interested in careers directly related to the health care or education fields will want to consider these Senior Only programs: Allied Health and Teacher Leadership Academy. These specific programs are a combination of theory and on-the-job practice, providing college-level training within 90-minute sessions every day for the duration of their senior year.

Allied Health and Teacher Leadership Academy are highly sought after and competitive in the application process, as there are hundreds of applications from students throughout Chester County each year. The application requires basic information in addition to 2 teacher recommendations (online forms, not letters), extracurricular experiences, a written essay, and supporting documents from the applicant's current high school (grades/GPA, attendance, school conduct).

Students applying for Allied Health have the option to select a preferred pathway(s): Hospital, Community Health, EMT and Sports Medicine. Placement within one of these pathways largely depends on distance/location.

ALLIED HEALTH - COMMUNITY HEALTH

Community Health - Allied Health is a community-based program that allows students to explore health issues through hands-on experiences that have a positive impact in the community.

ALLIED HEALTH - EMT

This fast-paced program prepares students to gain hands-on experience providing emergency medical care and transportation for critical and emergent patients.

ALLIED HEALTH - HOSPITAL

This hospital-based program is for students interested in providing inpatient and outpatient care to the community.

ALLIED HEALTH - SPORTS MEDICINE

Sports medicine is a clinical-based program for students interested in pursuing careers in athletic training, kinesiology, physical training, exercise science or medicine.

TEACHER LEADERSHIP ACADEMY

Students who are interested in becoming a teacher or pursuing a career in education would be a great fit for this program.



TRANSPORTATION PATHWAYS

AUTOMOTIVE COLLISION TECHNOLOGY

The Automotive Collision Technology program is designed for students with a keen interest in motor vehicles and an eye for color, shape and design.

AUTOMOTIVE SERVICE TECHNOLOGY

For students who are interested in working on cars, the Automotive Service Technology program provides a structured, hands-on and inclusive environment to explore their passion.

ENGINE TECHNOLOGY

Students who enjoy working on outdoor power equipment, four-wheelers and motorcycles can turn their interest into a career with the Engine Technology program.





QUICK RESOURCE GUIDE TO HIGH SCHOOL COURSES

ART

Comic & Animation 1 
 Digital Design 2
 Graphic Design 1 
 Photography 1 
 Photography 2 
 Photography 3
 Sculpture/3-D Design 1
 Sculpture/3-D Design 2
 Sculpture/3-D Design 3
 Studio Art 1
 Studio Art 2
 Advanced Art & Design Honors
 Advanced Placement Art and Design
 Advanced Placement Art History 
 Art Options




BUSINESS/MARKETING/INFORMATION TECHNOLOGY

Accounting 1 Honors
 Accounting 2 Honors
 Entrepreneurship Honors
 International Business 
 Internship
 Introduction to Business & Marketing 
 Marketing Honors 
 Personal Finance 
 Project Management & Leadership Honors
 Social Media Marketing 
 Sports & Entertainment Marketing 










CAREER COUNSELING

Future Readiness 1
 Future Readiness 2

COMPUTER SCIENCE

Intro to Computer Programming Honors 
 Introduction to Python Accelerated Honors
 Advanced Placement Computer Science Principles 
 Advanced Placement Computer Science A 
 Computer Science 2 Advanced and Extended Study

ENGLISH

English 9 Career & College Prep/Honors 
 English 9 Accelerated Honors 
 English 10 Career & College Prep/Honors 
 English 10 Accelerated Honors 
 English 11 Literature Career & College Prep/Honors 
 Advanced Placement 11: Language & Composition 
 Advanced Placement 12: Literature & Composition 
 English 12 British Literature Career & College Prep/Honors 
 African American Literature 
 Conflict Literature
 Contemporary Literature
 Human Endeavors
 Humanities

ENGLISH ELECTIVES

Film Studies 
 Publications
 Public Speaking 1
 Public Speaking 2
 Theatre 1
 Theatre 2
 Creative Workshop 1 
 Creative Workshop 2 

ENGLISH ELECTIVES (READING)

Content Area Literacy



ENGLISH ELECTIVES (VIDEO)

Broadcast Journalism & Social Media Production Honors 1
 Video Production 1
 Video Production 2 Honors
 Video Production 3 Honors
 Video Options





ENGLISH LANGUAGE DEVELOPMENT

ELD 1A
 ELD 1B & 1C
 ELD 2A
 ELD 2B & 2C
 ELD 3A
 ELD 3B & 3C
 ELD 4A
 ELL 4B & 4C
















FAMILY & CONSUMER SCIENCES





Child Development Preschool Laboratory 1 
 Child Development Preschool Laboratory 2
 Educating the Pre-School Child Honors
 Educational Career Internship Honors
 Introduction to Food Preparation 
 International Cuisine
 Culinary Arts
 Pastry Bakeshop
 Family & Consumer Sciences Options

HEALTH & PHYSICAL EDUCATION

Health Fitness 9 
 Health 10 
 Physical Fitness 10 
 Group Fitness Training 
 Sport Physical Education A
 Advanced Physical Education 1
 Advanced Physical Education 2

MATHEMATICS

Algebra 1A 
 Algebra 1B 
 Algebra 1 Career & College Prep 
 Algebra 1 Honors 
 Geometry Career & College Prep 
 Geometry Honors 
 Geometry Accelerated Honors 
 Algebra 2 Career & College Prep 
 Algebra 2 Honors 
 Algebra 2 Accelerated Honors 
 Pre-Calculus Career & College Prep 
 Pre-Calculus Honors 
 Pre-Calculus Accelerated Honors 
 Calculus Honors 
 Advanced Placement Calculus AB 

Advanced Placement Calculus BC 
 Intro to Matrices and Linear Algebra
 Intro to Statistics & Financial Literacy Career &
 College Prep
 Statistics Honors 
 Statistics Honors through Sports Analytics 
 Advanced Placement Statistics 










MUSIC

Honors Concert Band
 Accelerated Honors Wind Ensemble
 Honors Jazz Band
 Accelerated Honors Jazz Band
 Honors String Orchestra
 Accelerated Honors Chamber Orchestra
 Honors Concert Choir
 Accelerated Honors Chamber Choir
 Ensemble Options

CURRICULAR MUSIC CLASSES

Guitar
 Musical Keyboard
 Music Theory & Composition 1
 Advanced Placed Music Theory
 Vocal Broadway

SCIENCE








Biology 1 Career & College Prep 
 Biology 1 Honors 
 Biology 1 Accelerated Honors 
 Chemistry 1 Career & College Prep 
 Chemistry 1 Honors 
 Chemistry 1 Accelerated Honors 
 Environmental Science Career & College Prep
 Environmental Science Honors
 Advanced Placement Environmental Science
 Physical Science Career & College Prep
 Physics 1 Career & College Prep
 Physics 1 Honors
 Advanced Placement Physics 1 Algebra-Based
 Earth & Space Science Career & College Prep
 Advanced Placement Biology 
 Advanced Placement Chemistry 
 Advanced Placement Physics C: Mechanics
 and Electricity & Magnetism 
 Aquatic Ecology and Marine Biology Honors

Organic Chemistry and Forensics Honors
 Human Anatomy and Infectious Disease
 Honors
 Physics Principles of Engineering
 Advanced Geoscience: Astronomy & Geology

SOCIAL STUDIES

African-Asian Cultures Career & College
 Prep/Honors/Accelerated Honors 
 Advanced Placement Human Geography 
 European & Latin American Studies Career &
 College Prep / Honors
 Advanced Placement European History 
 United States History – 20th Century Career &
 College Prep/Honors 
 Advanced Placement United States History 
 United States Government & Economics
 Career & College Prep/Honors 
 Advanced Placement United States
 Government & Politics 












SOCIAL STUDIES ELECTIVES

American Military History 1 
 American Military History 2 
 The Holocaust
 Advanced Placement Economics
 Psychology
 Advanced Placement Psychology 
 Race & Ethnicity in Early America 
 Race & Ethnicity in Modern America 
 Sociology
 Stocks & Investment 
 Understanding Law 

TECHNOLOGY ENGINEERING EDUCATION

Engineering Design & Architecture 1 Honors
 Engineering Design & Architecture 2 Honors
 Engineering Design & Architecture 3 Honors
 Woodworking & Materials 1
 Woodworking & Materials 2
 Woodworking & Materials 3
 Woodworking & Materials 4
 Technology Education Options

WORLD LANGUAGE

French 1 
 French 2 
 French 3 Honors 
 French 4 Honors 
 French 5 Accelerated Honors 
 Advanced Placement French Language &
 Culture 
 German 1
 German 2
 German 3 Honors
 German 4 Honors
 Advanced Placement German Language & Culture
 Italian 1
 Italian 2
 Italian 3 Honors
 Italian 4 Honors
 Advanced Placement Italian Language & Culture
 Latin 1
 Latin 2
 Latin 3 Honors
 Latin 4 Honors
 Advanced Placement Latin Language & Culture
 Spanish 1 
 Spanish 2 
 Spanish 3 Honors 
 Spanish 4 Honors 
 Spanish 5 Accelerated Honors 
 Advanced Placement Spanish Language &
 Culture 



SECONDARY ENGLISH COURSE SEQUENCE

6th Grade	ENGLISH/READING GRADE LEVEL	ENGLISH/READING HONORS	ENGLISH ACCELERATED HONORS	
7th Grade	ENGLISH GRADE LEVEL	ENGLISH HONORS	ENGLISH ACCELERATED HONORS	
8th Grade	ENGLISH GRADE LEVEL	ENGLISH HONORS	ENGLISH ACCELERATED HONORS	
9th Grade	ENGLISH CAREER & COLLEGE PREP	ENGLISH HONORS	ENGLISH ACCELERATED HONORS	
10th Grade	ENGLISH CAREER & COLLEGE PREP	ENGLISH HONORS	ENGLISH ACCELERATED HONORS	
11th Grade	LANGUAGE CAREER & COLLEGE PREP	LITERATURE CAREER & COLLEGE PREP	ENGLISH HONORS	AP LANGUAGE & COMP.
12th Grade	LANGUAGE CAREER & COLLEGE PREP	ENGLISH CAREER & COLLEGE PREP BRITISH LITERATURE & SELECTIVE	ENGLISH HONORS BRITISH LITERATURE & SELECTIVE	AP LITERATURE & COMP.

STUDENTS WHO EXCEL AT ONE LEVEL MAY PROGRESS TO A HIGHER LEVEL THE FOLLOWING YEAR.

SECONDARY MATHEMATICS COURSE PROGRESSION

6th Grade	MATH 6 GRADE LEVEL	MATH 6 HONORS	MATH 6 ACCELERATED HONORS	
7th Grade	MATH 7 GRADE LEVEL	MATH 7 HONORS	ALGEBRA 1 (7) ACCELERATED HONORS	
8th Grade	MATH 8 GRADE LEVEL	ALGEBRA 1 (8) HONORS	GEOMETRY 8 ACCELERATED HONORS	
9th Grade	ALGEBRA 1A	ALGEBRA	GEOMETRY	ALGEBRA 2
10th Grade	ALGEBRA 1B	GEOMETRY	ALGEBRA 2	PRE-CALCULUS
11th Grade	GEOMETRY	ALGEBRA 2	PRE-CALCULUS	CALCULUS
12th Grade Electives	ALGEBRA 2 STATISTICS COMPUTER SCIENCE	PRE-CALCULUS STATISTICS COMPUTER SCIENCE	CALCULUS STATISTICS COMPUTER SCIENCE	CALCULUS STATISTICS COMPUTER SCIENCE

SECONDARY MATHEMATICS:

Course content and pacing are offered at various levels of ability to meet the needs of students. The goal of each course is to challenge, but not overwhelm, students. Students should consult with their current math teachers to help determine appropriate levels. The most rigorous course level offered is AP/Accelerated Honors followed by Honors. Career & College Prep courses are taught at a college-prep level. Below is a listing of the levels at which each course is offered:

Algebra 1:	Honors, Career & College Prep
Geometry:	Accelerated Honors, Honors, Career & College Prep
Algebra 2:	Accelerated Honors, Honors, Career & College Prep
Pre-Calculus:	Accelerated Honors, Honors, Career & College Prep
Calculus:	AP-BC, AP-AB, Honors
Statistics:	AP, Honors, Honors through Sports Analytics, Career and College Prep

ALL STUDENTS MUST SUCCESSFULLY COMPLETE THREE MATH COURSES TO GRADUATE.

**THE MISSION OF THE WEST CHESTER AREA SCHOOL DISTRICT IS
“to educate and inspire our students to achieve their personal best.”**



West Chester Area School District
782 Springdale Drive, Exton PA 19341
484-266-1000 ~ www.wcasd.net

*This guide is produced by the
Communications Office of the
West Chester Area School District.*