



West Chester Area School District
2020-21 HIGH SCHOOL
CYBER PROGRAM
COURSE DESCRIPTION GUIDE



Cyber Program

Log In. Learn On.

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

WC CYBER PROGRAM

The WC Cyber Program (WC Cyber) is a new and smarter approach to online learning. We are in it because we can do it better! West Chester Area School District's rich history of tradition and academic success is now at your fingertips.

The WCASD recognizes the need for choice in education because there is no one-size-fits-all approach to learning. Beginning in the 2020-21 school year, our top-ranked education will be available ONLINE for students in grades 6 through 12, providing a higher quality, flexible education that fits the needs of your child & family.

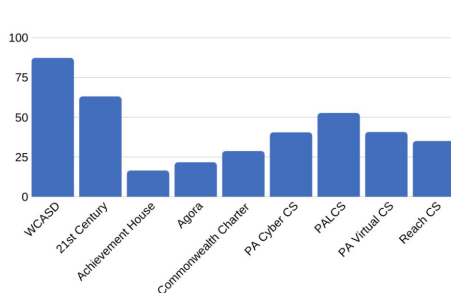
Data shows that student academic performance at **Pennsylvania's 15 cyber charter schools falls short** compared to traditional public school students. **We believe we can provide a higher quality, flexible online education that suits the needs of your child and family.**

At WC Cyber, we focus on the whole student, providing a robust online curriculum created and taught by our highly qualified educators.

WCASD is consistently ranked among the **top public schools in the nation.** (US News & World Report/Newsweek)

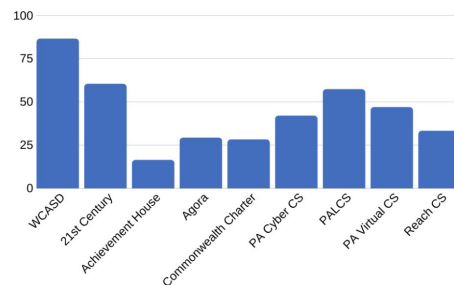
- **97% average graduation rate**, nearly 35% higher as compared to regional cyber schools
- **WCASD Keystone Exam scores for all three high schools are on average higher** than regional cyber schools:

Percentage of Students who Passed the 2019 Keystone Algebra Exam*



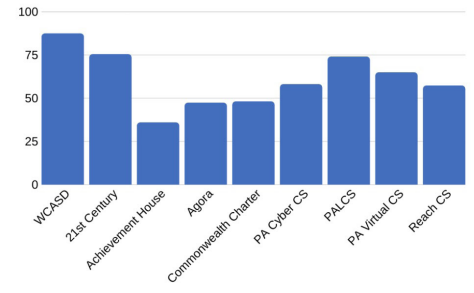
*Source - PA Department of Education

Percentage of Students who Passed the 2019 Keystone Biology Exam*



*Source - PA Department of Education

Percentage of Students who Passed the 2019 Keystone Literature Exam*



*Source - PA Department of Education

While enrolled in the WC Cyber Program, students have full access to WCASD student support services, extra-curricular activities, athletics, clubs, an award-winning music program, and more.

- Full array of student support services, including counseling, learning support and mental health services
- Career Exploration Program
- College & Career Readiness
- Dual Enrollment Courses with West Chester University

Unlike other cyber schools, WC Cyber Program does not contract with external education companies to teach our program. Courses are taught by OUR highly qualified teachers!

- 81% of WCASD teachers hold advanced degrees
- 94% of WCASD parents would recommend the district to parents whose children attend elsewhere
- 90% of staff members say they are proud to work in WCASD

WCASD Points of Pride

In 2019, 56 WCASD students were named National Merit Scholars and 339 students were named AP Scholars

National Merit Scholars

- 11 National Merit Finalists
- 12 National Merit Semi-Finalists
- 33 National Merit Commended



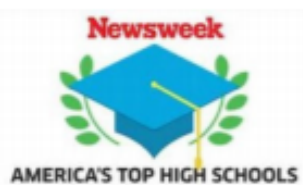
AP Scholars

AP Scholars

- 122 AP Scholars
- 130 AP Scholars w/ Distinction
- 64 AP Scholars w/ Honors
- 23 National AP Scholars



East, Henderson, & Rustin High Schools are consistently ranked among the top public schools in the nation according to U.S. News & World Report.



Newsweek ranks East, Henderson, & Rustin High Schools among the top high schools locally, regionally, and nationally.



WCASD schools have been awarded the U.S. Department of Education's coveted National Blue Ribbon Award multiple times.



Multiple recognitions as a Best Communities for Music Education by the National Association of Music Merchants Foundation.



WCASD is considered a top-rated school district according to Niche.com and Schooldigger.com users.



Multiple WCASD elementary schools recognized for having superior, federally-funded school programs.

Upon graduation, WC Cyber Program students will continue on their journey, backed by a WCASD diploma.

Questions? Email wccyber@wcasd.net.

Our Reputation. Our Teachers. Our Resources. Our Diploma. Your Education.

WC Cyber Program – Log in. Learn On.

PURPOSE

The intent of this Course Description Guide is to provide students and parents with descriptions of courses offered in the high schools of the West Chester Area School District.

LEVEL RECOMMENDATION GUIDELINES

HIGH SCHOOL ACADEMIC LEVELS:

The WCASD offers four levels of academic rigor in our high schools. The cyber teachers will work closely with the counseling department and cyber coach to support each learner at their appropriate level. Students wishing to earn Accelerated Honors credit will need to display their knowledge and skills above the grade level expectation through a variety of independent project-based tasks.

ADVANCED PLACEMENT:

Advanced Placement, or AP, refers to college-level courses taught according to the syllabi approved by the College Board Advanced Placement Program and/or to courses designed to prepare students for College Board AP tests. Successful performance on AP tests may lead to college credit and/or advanced placement in college courses. While course descriptions provide information about the course content on which the AP exam will be based, WCASD teachers have the flexibility to determine how the content is presented.

ACCELERATED HONORS:

Accelerated Honors courses prepare students for Advanced Placement studies. 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 (CCP) 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.

PROMOTION REQUIREMENTS (MINIMUM)

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

GRADUATION REQUIREMENTS

A total of 23.8 credits and a completed graduation project are required for graduation.

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

Beginning with the class of 2020, Chapter 4 Rules and Regulations for the state of Pennsylvania require that, in lieu of completing a graduation project, 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.

SEQUENCE OF COURSES

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.

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

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.

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 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.

High School Grading Scale with quality points:

Grade	Career & College Prep	Honors	AP & Accel. Honors
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

THE KEYSTONE EXAMS

The Keystone Exams are one component of Pennsylvania's new system of high school graduation requirements. Keystone Exams help assess student proficiency of the Pennsylvania Core Standards - standards aligned with expectations for success in college and the workplace. In order to receive a diploma, students must also meet local district credit and attendance requirements and complete a culminating project, along with any additional district requirements.

Beginning with the class of 2020, Chapter 4 Rules and Regulations for the state of Pennsylvania require that, in lieu of completing a graduation

project, 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.

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 advanced placement 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.

CAREER EXPLORATION PROGRAM

The West Chester Area School District's multi-faceted Career Exploration Program brings high school students into the workplace to observe and explore the "world of work" first-hand, creating a critical link between the skills students learn in school with the importance of this knowledge and skill acquisition to future career success.

Businesses can positively impact students by sharing practical work experience and learned life lessons that will help students make informed career decisions.

One of the goals of the Career Exploration Program is to place students in their expressed area of interest to allow them to get a real-world view of how that job functions within their community and beyond. These career opportunities are offered to students who are genuinely serious about their education and have a sincere interest in their career choices, ensuring that students and the business professionals both have a quality experience.

CAREER AWARENESS - GRADE 10:

In 10th grade, interested students can participate in several Career Awareness experiences that are offered in different career areas by several colleges, universities, and professional organizations.

JOB SHADOWING - GRADES 11 AND 12:

In 11th and 12th grade, students may participate in the Job Shadowing Program.

A student may participate in different job shadowing opportunities from October thru April in their career area(s) of interest. A wide variety of individuals and businesses in the Delaware Valley area offer full-day or half-day job shadowing opportunities.

These shadowings range from individual, 1-on-1 experiences, to larger group experiences at international companies in the area. The student can also work with the Career Counselors in setting up a job shadowing experience tailored to that student's career area of interest.

LEARN TO EARN - GRADE 12:

In 12th grade, sixty selected seniors can participate in the Learn to Earn Program.

Students must procure their own internship-site and the Business Sponsor must agree to obtain the required Pennsylvania clearances. Students are encouraged to speak with family and friends to find an internship site that is aligned with their career interests. Students may also work with the Career Counselors to find a site. Students have the opportunity to finish all their academic course work by the end of April and then intern at a business/institution/non-profit during the day for the month of May.

The business/company sponsor is expected to introduce students to positive aspects of the business and responsibilities of the workplace, make a visible investment in the student's career path, and make the connection between school and work.

In June, each student is required to prepare a presentation that summarizes their experience to members of the Learn to Earn Advisory Committee. Sponsors may attend this presentation. More information and application materials are available on the West Chester Area School District website under Career Exploration Program under the Curriculum tab.

SCHOOL COUNSELOR ASSIGNMENTS

Counselor assignments for the 2020-21 school year are listed below.

RUSTIN HIGH SCHOOL:

Ashley Ainsworth, A-Da, 484-266-4327
aainsworth@wcasd.net

Shaz Brown, De-Hy, 484-266-4329
sbrown3@wcasd.net

Grace Barry, Ia-McG, 484-266-4326
gbarry@wcasd.net

Bobbie Crowe, McH-Sca, 484-266-4331
bcrowe@wcasd.net

Tim Bryan, Sch-Z, 484-266-4328
tbryan@wcasd.net

HENDERSON HIGH SCHOOL:

Elizabeth Bender, A-Cr, 484-266-3311
ebender@wcasd.net

Koreem Bell, Cu-Hog, 484-266-3403
kbell1@wcasd.net

Morgan Gamble, Hoh-Mc, 484-266-3409
mgamble@wcasd.net

Kathleen Teague, Me-Sal, 484-266-3410
kteague@wcasd.net

Rebecca Singer, Sam-Z, 484-266-3404
rsinger@wcasd.net

EAST HIGH SCHOOL:

Yvonne Setlock, A-Co, 484-266-3931
ssetlock@wcasd.net

Bill Reichle, Cr-G, 484-266-3929
wreichle@wcasd.net

Lauren Otto, H-McC, 484-266-3930
lotto@wcasd.net

Kelly Camp, McD-R, 484-266-3928
kcamp@wcasd.net

Brian Lindros-S-Z, 484-266-3939
blindros@wcasd.net

CYBER CENTER

The WC Cyber Center is located at Fugett Middle School and will serve as a student "hub". Students will be able to come here to work collaboratively on projects, access specialized equipment and materials, and seek the assistance of our cyber coach.

EXTRACURRICULAR ACTIVITIES

Students enrolled in the WCASD Cyber Program are encouraged to participate in the numerous extracurricular activities offered. For more information, please visit your home school's activities and athletics webpages or email the athletic director.

HIGH SCHOOL ATHLETIC DIRECTORS EAST HIGH SCHOOL

Ms. Susan Cornelius, scornelius@wcasd.net

HENDERSON HIGH SCHOOL

Mr. Ken McCormick, kmccormick@wcasd.net

RUSTIN HIGH SCHOOL

Mr. Devon Landgraff, dlandgraff@wcasd.net

WEST CHESTER AREA SCHOOL DISTRICT

2020-21 CYBER PROGRAM COURSE DESCRIPTION

GRADES 9 - 12 BY SUBJECT

ART

ADVANCED PLACEMENT ART HISTORY (10, 11, 12) 1 CREDIT

This college level humanities course takes students around the globe in their study of art. Covering the Paleolithic era through contemporary times, 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. Each work is examined in reference to its historical context and the story it tells. Students will experience the artworks through museum trips and virtual reality, conduct in group work and participate in class discussions. Class discussions may include politics, economics, gender, culture, or race as it relates to the history of art. This course prepares students to take the College Board AP Art History exam.

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

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.

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

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. This course increases understanding of photography as an art form and allows the student to produce a portfolio of work by the end of the course.

BUSINESS/MARKETING

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

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.

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

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, business record keeping, 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. Operation of the school store and activities in the DECA (an association of marketing students) chapter are used to develop leadership abilities. To receive honors credit, students must participate in

DECA's co-curricular competitions or complete a DECA competition project. Students enrolled in a full-year business course may participate in DECA.

PERSONAL FINANCE (9, 10, 11, 12)

.5 CREDIT/SEMESTER COURSE

Given today's economic climate, students, now more than ever, should consider carefully their future in terms of career choice, education and financial stability. Curriculum is driven by Federal and State initiatives to develop necessary financial awareness in today's economic markets. Individual career portfolios based on interest inventories and aptitude tests, career exploration, resume building, and post-secondary planning are developed. This portfolio is essential in defining and directing students' individual career objectives. Economic analysis of our monetary system and financial literacy concepts including goals and decision making, income, money management, spending and credit, savings and investing, budgeting and purchasing goods and services, and retirement planning are provided. Students may intern with the Keystone Federal Credit Union branch located in the school.

SPORTS & ENTERTAINMENT MARKETING

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

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.

COMPUTER SCIENCE

INTRO TO COMPUTER PROGRAMMING 1 CREDIT

This course highlights C/C++ language and implements programs using both simple and complex mathematical algorithms. Topics of study include (but are not limited to): Datatypes, Input & Output, String Manipulation, Arrays, and Structured Data Types. Students who successfully complete this course would be prepared to take an AP-level Computer Science course.

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 1 (10, 11, 12) 1 CREDIT

This course extends computer programming concepts developed in Computer Programming C and C++ 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: Computer Programming in C or C++ or teacher recommendation.

ENGLISH

ENGLISH 9

1 CREDIT

English 9 is a program of reading, writing, speaking, viewing, and listening. This skill-based course develops informational, argumentative, and narrative writing. Writing assignments and lessons in language study are related to the reading and include varied research skills. Online discussions and projects are based on selected literary readings, and students are expected to participate by contributing relevant, constructive, and probing thoughts and inquiries.

ENGLISH 10**1 CREDIT**

English 10 continues the students' development of communication skills. Units include the reading of essays, short stories, novels, poetry, and plays. Reading takes place both in and outside of class. Frequent writing assignments and lessons in language study build on previous competencies and include research skills.

ENGLISH 11 LITERATURE**1 CREDIT**

English 11 Literature relates reading and writing to language and themes represented by the core literature. 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, and independent studies.

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.

FIRST SEMESTER – BRITISH LITERATURE GRADE 12**ENGLISH 12 BRITISH LITERATURE****.5 CREDIT/SEMESTER COURSE**

English 12 British Literature relates 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.

SECOND SEMESTER FOR GRADE 12**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.

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 ELECTIVES

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

CREATIVE WORKSHOP 1**.5 CREDIT/SEMESTER COURSE**

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.

FILM STUDIES .5 CREDIT/SEMESTER COURSE

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.

FAMILY CONSUMER SCIENCES

CHILD DEVELOPMENT (9, 10, 11, 12) 1 CREDIT
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.

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

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.

HEALTH & PHYSICAL EDUCATION

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 week. 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) .5 CREDIT/SEMESTER COURSE
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 course will meet for one semester.

PHYSICAL FITNESS (10) .5 CREDIT/SEMESTER COURSE

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 will 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 21st century skills necessary for working with others. This course will meet for one semester.

PERSONAL FITNESS TRAINING (11, 12) .5 CREDIT/SEMESTER COURSE

Designed for students who wish to improve personal fitness without engaging in team sports. Fitness training includes Yoga & Pilates, group exercise (kickboxing, interval training, body bar, balance ball, step aerobics, slide aerobics, Latin fitness training, etc.), dance, self-defense, and cardiovascular

exercise. Health-related fitness components are emphasized. Heart rate monitors will be utilized to assess cardiovascular performance.

MATHEMATICS

ALGEBRA 1 **1 CREDIT**

Algebra 1 requires abstract thinking and higher-order problem solving. The content includes algebraic properties, linear equations and functions, inequalities, systems of equations and inequalities, exponents, exponential functions, quadratic equations and functions, polynomials and factoring, rational equations and functions, radicals and data and probability.

ALGEBRA 2 **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.

GEOMETRY **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.

PRE-CALCULUS (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

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

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 Calculus Advanced Placement AB or 93% or higher in Pre-Calculus Accelerated Honors with teacher recommendation.

STATISTICS HONORS (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

ADVANCED PLACEMENT STATISTICS (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

Cyber students are invited to participate with their home school's performing ensembles. This may require the student to be on campus during the scheduled time, but classes do not meet every day. The WCASD offers students the following curricular ensembles: Band, Jazz Band, Chorus, Orchestra.

For more information, please contact the appropriate ensemble director or Dr. Kristen Barnello, Supervisor of Fine Arts & Social Studies, kbarnello@wcasd.net.

EAST HIGH SCHOOL

BAND DIRECTOR

Mr. Kyle Risch, krisch@wcasd.net

CHOIR DIRECTOR

Mrs. Kendra Werner, kwerner@wcasd.net

ORCHESTRA DIRECTOR

Mr. Tim Celfo, tcelfo@wcasd.net

HENDERSON HIGH SCHOOL

BAND DIRECTOR

Ms. Kendra Woywood, kwoywood@wcasd.net

CHOIR DIRECTOR

Mr. Jon Creamer, jkreamer@wcasd.net

ORCHESTRA DIRECTOR

Mrs. Katrina Kelly, kkelly@wcasd.net

RUSTIN HIGH SCHOOL

BAND DIRECTOR

Mr. Mike Shoremount, mshoremount@wcasd.net

CHOIR DIRECTOR

Mrs. Ann Ellis, aellis@wcasd.net

ORCHESTRA DIRECTOR

Ms. Liz Shafman, eshafman@wcasd.net

SCIENCE

BIOLOGY

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.

ADVANCED PLACEMENT BIOLOGY

1.6 CREDITS

Designed to be the equivalent of a two-semester college introductory biology course, the focus of this course is on building an understanding of the major themes in modern biology; (evolution, energy transfer in organisms, diversity of life, relationship of structures and function, and systems regulation and control). Chemistry knowledge and skills are required. Students are prepared to take the Biology AP examination near the conclusion of the course.

CHEMISTRY (10)

1.2 CREDITS

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 Career & College Prep Algebra 1.

ADVANCED PLACEMENT CHEMISTRY (11, 12)

1.6 CREDITS

This course is designed to satisfy Advanced Placement guidelines and includes all the advanced chemistry topics for the AP examination. The course is for students with a strong commitment to science who are planning to take the Advanced Placement examination in Chemistry.

Prerequisites: Successful completion of Biology.

PHYSICS (11, 12)**1.2 CREDITS**

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.

Prerequisites: Successful completion of Chemistry 1 and concurrent enrollment in Algebra 2 or higher level math course

ADVANCED PLACEMENT PHYSICS 1 ALGEBRA-BASED (11, 12)**1.6 CREDITS**

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits.

Prerequisite: Successful completion of Chemistry 1 and concurrent enrollment in Honors/Accelerated Honors Pre-Calculus or successful Completion of Chemistry 1 and Pre-Calculus.

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

This course is designed to prepare students for the Advanced Placement Physics C examination and satisfies the guidelines of the Advanced Placement Program. Approximately one half of the year is devoted to advanced mechanics concepts, and the remainder to an advanced treatment of electricity and magnetism topics. The use of calculus in problem solving and derivations increases as the

course progresses.

Prerequisite: Successful completion or concurrent enrollment in Chemistry. Current enrollment in Honors/Accelerated Honors Pre-Calculus or successful completion of Pre-Calculus.

SOCIAL STUDIES**AFRICAN-ASIAN CULTURES (9) 1 CREDIT**

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.

EUROPEAN & LATIN AMERICAN STUDIES (10) 1 CREDIT

This course explores Europe and Latin America by focusing on major themes, such as government systems, wealth, identity, and human suffering. Students will engage in inquiry based activities to see how historical events connect to the modern world.

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. The key concepts, supporting concepts and historical developments that are required knowledge for each period will be presented. This course may be used to fulfill the tenth grade social studies requirement and is designed to prepare students for the Advanced Placement test. Eleventh and twelfth grade students may select this course as an elective.

UNITED STATES HISTORY - 20TH CENTURY (11) 1 CREDIT

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 (11) 1 CREDIT

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. The demands for this course are equivalent to an introductory college level course and will prepare students for the Advanced Placement exam.

UNITED STATES GOVERNMENT & ECONOMICS (12) 1 CREDIT

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 a basic understanding of the American economy.

ADVANCED PLACEMENT UNITED STATES GOVERNMENT & POLITICS (12) 1 CREDIT

This is a survey course in American government with emphasis on the structure, operation and politics of the Federal government. 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. The course prepares students to take the Advanced Placement Examination in United States Government and Politics.

SOCIAL STUDIES ELECTIVES**ADVANCED PLACEMENT PSYCHOLOGY (10, 11, 12) 1 CREDIT**

This course introduces the systematic and scientific 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. Topics include development, biological

basis for behavior, sensation and perception, cognition, states of consciousness, personality, abnormal behavior, therapy, and emotion and motivation. This course is highly interactive and reliant on independent effort, initiative, and critical thinking. Experiments, surveys, opinion papers, simulations, and creative illustrations are examples of techniques used. The demands of this course are equivalent to those of an introductory college course and prepare students for the Advanced Placement examination.

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

AMERICAN MILITARY HISTORY 1 (9,10,11, 12) .5 CREDIT/SEMESTER COURSE

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.

STOCKS & INVESTMENT**(9, 10, 11, 12) .5 CREDIT/SEMESTER COURSE**

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

TECHNOLOGY EDUCATION**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.

Due to the specific needs of our Technology Education courses, students enrolled in the cyber program are invited to participate in other courses on-site. For more information, please contact Dr. Paul Joyce, pjoyce@wcasd.net.

VIDEO

BROADCAST JOURNALISM & SOCIAL MEDIA PRODUCTION HONORS I (9, 10, 11, 12)

1 CREDIT

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 1 (9, 10, 11, 12)

.5 CREDIT/SEMESTER COURSE

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 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.

WORLD LANGUAGE

SPANISH 1

1 CREDIT

Students develop the skills of listening, understanding, speaking, reading and writing Spanish at a beginner's level. The course includes vocabulary building, development of basic structural patterns, listening comprehension exercises, instructional games, role playing and exploration of the culture of the Spanish speaking world. Listening and speaking skills are combined with written work for evaluation.

SPANISH 2**1 CREDIT**

Students continue their study of listening, understanding, speaking, reading, and writing skills, and explore certain aspects of the culture of the Spanish speaking world. The course consists of dialogues, readings, the expansion of grammatical structures, cultural materials and role playing. The use of Spanish in class is stressed.

Prerequisite: Successful completion of Spanish 1.

SPANISH 3 HONORS**1 CREDIT**

A rigorous and in-depth study, this course is designed to prepare students for Advanced Placement studies. Students are challenged by a higher level of expectation for reading, writing, speaking, and listening. Vocabulary is developed in context through reading, writing, speaking, and listening. Grammatical structures are expanded and enhanced through literature. Spanish is used almost exclusively in the classroom.

SPANISH 4 HONORS (10, 11, 12)**1 CREDIT**

A continuation of a rigorous and in-depth study of the Spanish language, this course is intended for serious and highly motivated students who were successful in Spanish 3 Honors and is designed to prepare students for Advanced Placement studies. Students continue to expand and refine their knowledge of vocabulary and grammar in authentic context, as well as thoroughly explore culture and literature. Spanish is used almost exclusively in class, and students are evaluated on their ability to communicate both orally and in writing.

SPANISH 5 ACCELERATED HONORS (11, 12)**1 CREDIT**

Students refine the skills which they have previously mastered in order to develop advanced level competency in listening, speaking, reading, and writing. This course is intended for very serious and highly motivated students who were successful in Spanish 4 Honors and is designed as a prerequisite to the Advanced Placement course the following year. Activities are fashioned to strengthen cross-cultural awareness and appreciation. Literature, structure, vocabulary, and application of the

language in varied situations are the featured elements of the course. Spanish is used exclusively in class. Students are evaluated on their ability to communicate both orally and in writing.

ADVANCED PLACEMENT SPANISH LANGUAGE (12)**1 CREDIT**

Rigorous and demanding, this thematic course is intended for highly motivated students who wish to develop an advanced level of proficiency in all four language skills: listening, speaking, reading and writing. AP Spanish Language will emphasize the use of language for active communication and help students develop (1) the ability to understand spoken Spanish in various contexts, (2) vocabulary sufficient for reading newspapers, magazines, literary texts and other non-technical writings without dependence on a dictionary, and (3) the ability to express themselves with reasonable fluency and accuracy in both written and spoken Spanish. Students should have a basic knowledge of the language and culture of Spanish-speaking people and should have already attained a reasonable proficiency in all four skills. A minimum of thirty to forty minutes of daily homework and preparation plus independent work will be required. The course provides the diligent student the opportunity to prepare for success on the AP exam.

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



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