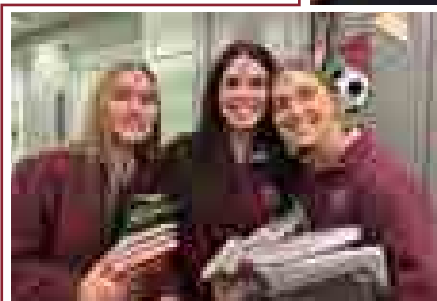
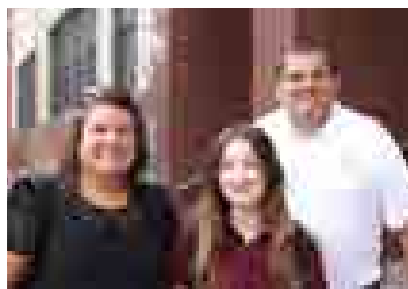
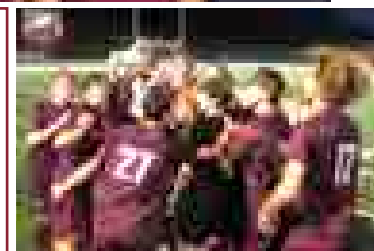


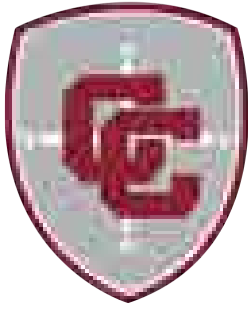
Central Catholic High School



COURSE CATALOG

2024-2025 ACADEMIC YEAR





Central Catholic High School

Wheeling, WV • est. 1865

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OUR SCHOOL

Central Catholic has been educating young men and women since 1865. The school has always been a vital part of the East Wheeling downtown area, and remains an integral part of the Diocese of Wheeling-Charleston's Wheeling campus, which includes the Cathedral of Saint Joseph, the Diocesan Offices, and the Chancery.

OUR MISSION

Central Catholic High School is a college preparatory high school in the Diocese of Wheeling-Charleston, dedicated to nurturing reflective spirituality, intellectual accomplishment, and social responsibility so that each student can reach his or her God-given potential. Rooted in our Catholic tradition and grounded by caring, dynamic faculty and staff, Central Catholic strives to create a learning community that inspires honest thinkers, encourages innovation, fosters creativity, and enhances individual talents.

Central Catholic graduates will have the skills and knowledge to pursue the college and career of their choice, the confidence to be leaders, and the social conscience and compassionate heart to be advocates for social justice in our world. Ultimately, a CCHS education prepares students to live a life in which they "Think and Act Like Christ."

CLASS RANK & GPAS

*All students follow a college preparatory curriculum. All courses are included in the computation of the GPA. **Honors, Advanced Placement, and Dual-Credit courses are weighted.** Placement in all courses is based on achievement, aptitude and motivation. CCHS does not provide nor publish class rank.*

Grading Scale: A = 93-100 B = 85-92 C = 77-84
D = 69-76 F = below 69

ACADEMIC ASSESSMENTS

- 9th Grade - NWEA Map Growth Testing; PSAT 8/9; ARK Testing
- 10th Grade - NWEA Map Growth Testing; PSAT/NMSQT; ARK Testing
- 11th Grade - PSAT/NMSQT; SAT School Day; ARK Testing;
- 12th Grade - SAT/ACT; ARK Testing

ADVANCED PLACEMENT PROGRAM

In 2023, CCHS was honored to earn the distinction of AP *Honor Roll* and AP *Access Award Recipient* from College Board. The AP Honor Roll recognizes schools whose AP programs are delivering results for students while broadening access. Schools can earn this recognition annually based on criteria that reflect a commitment to increasing college-going culture, providing opportunities for students to earn college credit, and maximizing college readiness. The AP Access Award demonstrates 'a clear and effective commitment to equitable access to advanced coursework'.

- AP Calculus AB
- AP Calculus BC
- AP Computer Science A
- AP English Language
- AP Statistics
- AP Biology
- AP U.S. Government and Politics

100% of AP students are required to sit for the exam

DUAL CREDIT PROGRAMS

Introduction to Psychology (WVNC)
Chemistry & Chemistry Lab I & II (WLU)
WVU Early College Access

INSTRUCTIONAL TECHNOLOGIES

Central Catholic High School is home to the Technology Enhanced Active Learning (TEAL) Lab. Designed ten years ago after similar learning spaces on the campus of Massachusetts Institute of Technology, the TEAL Lab paved the way for more collaborative learning and visually engaging lessons across all disciplines, especially STEM. The TEAL Lab and the philosophy that inspired this innovative space, prepares Central Catholic students for both the college and professional environment by allowing them to engage in a transformative educational experience that strengthens leadership skills, critical thinking, problem solving, innovation, and creativity. The facility features large HD flat touch-screen monitors with computers, computer projectors, writable glass windows, 3D printers, movable furniture, and other technological tools that engage students in a more active learning style and promotes collaborative project work. Since its inception, the TEAL Lab was the catalyst for the transformation of all learning spaces at CCHS and led the way throughout the state and region, inspiring similar learning spaces in other schools and universities.

ACCREDITATION & MEMBERSHIP

- Cognia Accreditation
- West Virginia Secondary Schools Activities Commission

ACADEMIC YEAR

Two semesters each consisting of 90 school days; daily classes of 75 minutes each; all students carry a full schedule of seven academic courses each semester.

HIGH SCHOOL FACULTY

The average teaching experience is 18 years; 55% of faculty hold advanced degrees. The student/teacher ratio is 10 to 1.

SERVICE LEARNING INITIATIVE

Through the service learning program at CCHS students are encouraged to contribute to the common good by becoming active and caring members of their community. This service provides students the opportunity to reflect upon and connect to the relevance of living the gospel mission to their own education and lives. Each CCHS student is required to complete a minimum of 20 hours of diverse service work outside the school day every year. In the 2022-2023 school year, CCHS students completed over 8,100 hours of community service.

RESOURCE LEARNING PROGRAM

The Resource Learning Program at CCHS provides academic support to students with diagnosed learning differences, a qualified plan from their previous school, or a recommendation from a school counselor/administrator. The goal of the program is to develop each qualifying student's academic skills, work towards their own self-advocacy, and to promote their independent learning by providing resources and individual support that will foster success in the college preparatory high school setting and prepare them for higher education. The Resource Learning teacher works closely with the student, parents, and teachers to identify areas of need, create an education plan, and monitor progress.

A Resource Learning Class is available to qualifying students and is designed to provide support as students work both individually and in small groups with the Resource Learning teacher.

STUDENT LIFE

Central Catholic offers a wide range of co-curricular activities that complement our strong academic programming and spiritual teachings. CCHS has expanded our performing arts program to include diverse opportunities for our students. CCHS has co-curricular clubs that cover a variety of academic, artistic, spiritual and social interests of our students.

The Central Catholic Maroon Knights are well known throughout the Mountain State for their outstanding athletic achievements. Once touted as the "finest athletic program in West Virginia" by Sports Illustrated, Central Catholic students live out their faith on the field through teamwork, sportsmanship, and perseverance; this is evident by our 30+ championship titles in the last 10 years.

Athletics: Archery, Baseball, Basketball, Bowling, Cheering, Cross Country, Football, Golf, Ice Hockey, Lacrosse, Robotics, Soccer, Softball, Swimming, Tennis, Track & Field, Volleyball, and Wrestling.

Academic/Leadership Clubs: National Honor Society, Foreign Language Honorary, Student Council, Leadership Wheeling Youth Program, Judicial Scholars, Math Field Day, Mu Alpha Theta, Pi Club, Rho Kappa, Science Bowl, and Science Honor Society.

Faith-Based and Service Clubs: Pontifical Crew, Eucharistic Ministers, Alter Servers, Peer Ministry, Teens for Life, NCYC Group, Bible Study, Rosary Group, and GUTS (Guys & Girls United to Serve).







Additional Clubs: Chorus, Performing Arts Club, Band, Sign Painting, Science Club, Spanish Club, French Club, Drug Free Clubs of America, We Stop Hate Club, Quiz Bowl Team, Broadcasting Club, CCHS Shadow Program, Big Sister's Club, and Math Club.

SENIOR SNAPSHOT

	2020	2021	2022	2023
Post secondary colleges & universities	97%	98%	97%	94%
# Seniors	72	66	64	64
\$ Merit-based Scholarships Offered	\$6.0 million	\$7.4 million	\$6 million	\$5 million

COURSE MAP

ELECTIVES

 Health (one credit required)	 Physical Education (one credit required)	 Visual & Performing Arts (one credit required)	 Digital Media (Recommended)	 Technology (Recommended)	 High School & College Skills
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28 credits required to graduate	Religion (4 credits)	English (4 credits)	Science (4 credits)	Social Studies (4 credits)	World Languages (2 credits)	Mathematics (4 credits)
12th GRADE	Responding to the Call of Jesus/Life in Jesus Christ	AP English & Composition English IV Advanced	AP Biology College Chemistry I or II Anatomy I or II *Physics DNA/Genetics Zoology Environmental Science	Government AP US Government & Politics College Psychology Psychology	*Spanish IV *French IV	AP Calculus AB/BC AP Statistics *Precalculus Calculus, Statistics & Probability Advanced Algebra Algebra II Int. Algebra II w/Functions Personal Finance
11th GRADE	Who is Jesus Christ/ Jesus Christ's Mission Continues in the Church	* English III British Literature	AP Biology College Chemistry I Anatomy I *Physics DNA/Genetics Environmental Science Zoology	Contemporary Studies Cultural Studies Psychology AP US Gov. & Politics	*Spanish IV *Spanish III *French IV *French III	AP Calculus AB AP Statistics *Precalculus *Algebra II Int. Algebra II w/Functions Int. Geometry w/ Prob. Solving
10th GRADE	Sacred Scripture/ Jesus Christ	* English II American Literature	*Integrated Chemistry & Physics	*US Studies	*Spanish III Spanish II Spanish IIB *French III French II French IIB	*Precalculus *Algebra II Int. Algebra II w/Functions Algebra I *Geometry Int. Geometry w/ Prob. Solving
9th GRADE	The Mission of Jesus Christ	* English I Intro to Literary Genres	*Biology	* World History	Spanish II Spanish I French II French I	*Algebra II *Algebra I *Geometry Intermediate Algebra I

* Honors Option Available

Open Electives

Electives with Prerequisites

12th GRADE

- Senior Art
- Studio Art I
- Performing Arts
- Choir
- Music Appreciation
- Intro to Music Theory
- Music Technology I
- Intro to Steel Drums
- Intro to Guitar
- Video Production I
- Digital Media
- Media/Pop Culture
- Intro to Computer Programming
- Speech
- SAT/ACT Prep
- Psychology
- Yearbook
- Robotics
- PE
- Personal Finance
- Intro to Engineering

- Studio Art II
- Audio Recording & Production
- Video Production II
- Intermediate Computer Programming
- AP Computer Science in Java
- WVNCC College Psychology
- Leadership Studies
- Intro to Sports Medicine
- Rock Band

11th GRADE

- Studio Art I
- Performing Arts
- Choir
- Music Appreciation
- Intro to Music Theory
- Music Technology I
- Intro to Music Theory
- Intro to Steel Drums
- Intro to Guitar
- Video Production I
- Digital Media
- Media/Pop Culture
- Intro to Computer Programming
- Speech
- SAT/ACT Prep
- Psychology
- Yearbook
- Robotics
- PE
- Intro to Engineering

- Studio Art II
- Audio Recording & Production
- Video Production II
- Intermediate Computer Programming
- AP Computer Science in Java
- Intro to Engineering
- Leadership Studies
- Intro to Sports Medicine
- Rock Band

10th GRADE

- Studio Art I
- Performing Arts
- Choir
- Music Appreciation
- Intro to Music Theory
- Music Technology I
- Intro to Music Theory
- Intro to Steel Drums
- Intro to Guitar
- Video Production I
- Digital Media
- Intro to Computer Programming
- Speech
- Yearbook
- Robotics
- PE

- Studio Art II
- Audio Recording & Production
- Video Production II
- Intermediate Computer Programming
- Rock Band

9th GRADE

- Studio Art I
- Performing Arts
- Choir
- Music Appreciation
- Intro to Music Theory
- Music Technology I
- Intro to Music Theory
- Intro to Steel Drums
- Intro to Guitar
- Digital Media
- Intro to Computer Programming
- Speech
- Study Skills
- Robotics

- Studio Art II
- Rock Band
- Audio Recording & Production
- Intermediate Computer Programming

Electives based on interest & availability. Select electives may only be offered during one semester.

RELIGION 9A-THE MISSION OF JESUS CHRIST0.5 CREDIT(SEMESTER 1)

PREREQUISITE: None. The purpose of this course is to help students understand all that God has done for us through His Son Jesus Christ. Through this course of study, students will learn that for all eternity, God has planned for us to share eternal happiness with Him which is accomplished through the Redemption Christ won for us. Students will learn that they share in this Redemption only in and through Jesus Christ. They will also be introduced to what it means to be a disciple of Christ and what life as a disciple entails.

RELIGION 9B-SACRAMENTS AS PRIVILEGED ENCOUNTERS WITH JESUS CHRIST0.5 CREDIT(SEMESTER 2)

PREREQUISITE: None. The purpose of this course is to help students understand that they can encounter Christ today in a full and real way in and through the Sacraments, and especially through the Eucharist. Students will examine each of the Sacraments in detail so as to learn how they may encounter Christ throughout life.

RELIGION 10A-SACRED SCRIPTURE0.5 CREDIT(SEMESTER 1)

PREREQUISITE: None. The purpose of this course is to give an overview of Sacred Scripture with an introduction to the basic principles for understanding and interpreting the Bible. This course will offer comments about Scriptures' purpose and religious significance. This course will show a sense of the unity of the narrative of the divine plan of salvation, the presence of God's action in this record of His Revelation and His desire to share His merciful love with us. The New American Bible and the Catechism of the Catholic Church will provide various explanations of Scripture with the intention of integrating catechesis and scripture.

RELIGION 10B-THE REVELATION OF JESUS CHRIST IN SCRIPTURE0.5 CREDIT(SEMESTER 2)

PREREQUISITE: None. The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through the study of the Bible, they will come to encounter the living Word of God, Jesus Christ. In the course, the students will learn about the Bible, authored by God through inspiration, and its value to people throughout the world. This will include learning how to read the Bible. The students will pay particular attention to the Gospels where they may grow to know and love Jesus more personally.

RELIGION 11A-WHO IS JESUS CHRIST?0.5 CREDIT(SEMESTER 1)

PREREQUISITE: None. The purpose of this course is to introduce students to the Mystery of Jesus Christ, the Living Word of God, and the second Person of the Blessed Trinity. In this course, students will understand that Jesus Christ is the ultimate revelation to us from God. In learning about who He is, the students will also learn who He calls them to be.

RELIGION 11B- JESUS CHRIST'S MISSION CONTINUES IN THE CHURCH
(SEMESTER 2)

0.5 CREDIT

PREREQUISITE: None. The purpose of this course is to help the students understand that in and through the Church they encounter the Living Jesus Christ. They will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by Him through the Holy Spirit. The students will come to know the Church is the living Body of Christ today. This Body has both Divine and human elements. In the course, students will learn not so much about events in the life of the Church but about the sacred nature of the Church.

RELIGION 12A-RESPONDING TO THE CALL OF JESUS CHRIST
(SEMESTER 1)

0.5 CREDIT

PREREQUISITE: None. The purpose of this course is to help students understand the vocations of life; how Christ calls us to live. In this course students should learn how all vocations are similar and how they differ. The course is structured around married life, single life, priestly life, and consecrated life. Students will learn what it means to live life for the benefit of others and the value in considering a vocation in service to the Christian Community.

RELIGION 12B-LIFE IN JESUS CHRIST
(SEMESTER 2)

0.5 CREDIT

PREREQUISITE: None. The purpose of this course is to help students understand that it is only through Christ that they can fully live out God's plan for their lives. Students will learn the moral concepts and precepts that govern the lives of Christ's disciples.



ENGLISH I - INTRODUCTION TO LITERARY GENRES

1 CREDIT

(FULL YEAR)

PREREQUISITE: None. This course is designed to develop and to intensify important communication and critical thinking skills. Students expand vocabulary, improve spelling skills, and broaden knowledge of basic grammar and syntax. Students develop reading skills through modern and classical literature. Writing skills are enhanced through descriptive, personal, and critical essays and letter writing.

(H) ENGLISH I - INTRODUCTION TO LITERARY GENRES

1 CREDIT

(FULL YEAR)

PREREQUISITE: Teacher recommendation. This course is designed to develop and to intensify important communication and critical thinking skills. Students expand vocabulary, improve spelling skills, and broaden knowledge of basic grammar and syntax. Students develop reading skills through modern and classical literature. Writing skills are enhanced through descriptive, personal, and critical essays and letter writing. This honors level course is vertically aligned with the senior course AP English Language and Composition.

ENGLISH II - AMERICAN LITERATURE

1 CREDIT

(FULL YEAR)

PREREQUISITE: English I. This course is designed to refine the communication skills acquired in English I. The focus of this course is critical thinking - the ability to analyze, and appreciate American literature. Students continue to expand vocabulary and spelling skills as well as syntax and grammar, applying what is learned to composition and reading assignments.

(H) ENGLISH II - AMERICAN LITERATURE

1 CREDIT

(FULL YEAR)

PREREQUISITE: A/B (H) English, teacher recommendation. This course is designed to refine the communication skills acquired in English I. The focus of this course is critical thinking - the ability to analyze, and appreciate American literature. Students continue to expand vocabulary and spelling skills as well as syntax and grammar, applying what is learned to composition and reading assignments. This honors level course is vertically aligned with the senior course AP English Language and Composition.

ENGLISH III - BRITISH LITERATURE

1 CREDIT

(FULL YEAR)

PREREQUISITE: English II. This course is designed to reaffirm students' ability to read, comprehend, analyze, and enjoy literature while increasing their confidence in vocabulary utilization, writing skills, and speaking talents. Students develop abstract thinking skills and further enhance composition abilities through the study of British literature.

(H) ENGLISH III - BRITISH LITERATURE

1 CREDIT

(FULL YEAR)

PREREQUISITE: A/B (H) English, teacher recommendation. This course is designed to reaffirm students' ability to read, comprehend, analyze, and enjoy literature while increasing their confidence in vocabulary utilization, writing skills, and speaking talents. Students develop abstract thinking skills and further enhance composition abilities through the study of British literature. This honors level course is vertically aligned with the senior course AP English Language and Composition.

ENGLISH IV - ADVANCED COMPOSITION (FULL YEAR)

1 CREDIT

PREREQUISITE: English III. In this course, students critically study and discuss the selections of rhetoric. Students write personal, argumentative, synthesis and rhetorical analysis essays. Students are required to use their knowledge of the English language in both a structural and creative way. The successful completion of a research term paper is a requirement for credit in this class.

AP ENGLISH: AP ENGLISH LANGUAGE AND COMPOSITION (FULL YEAR)

1 CREDIT

PREREQUISITE: A/B (H) English, teacher recommendation. The purpose of AP English Language and Composition is “to enable students to write effectively and confidently in their college courses across the curriculum and in their professional and personal lives [The College Board, AP English Course Description]. Students taking this course will master writing rhetorical analysis essays, argumentative essays, and synthesis essays. Students will also examine a wide range of rhetorical text and visual text. Students taking this course are required to take the AP exam at the end of the year and are also expected to complete a research term paper.

SPEECH (SEMESTER)

0.5 CREDIT

PREREQUISITE: None. This course emphasizes all elements of oral communication, personal presentation, and interpersonal communication. Special emphasis is placed on articulation, pronunciation, and diction. Students speak extemporaneously on a variety of topics throughout the semester and are required to deliver at least four formal speeches. *Elective Course.*

YEARBOOK (SEMESTER/YEAR)

0.5/1 CREDIT

PREREQUISITE: Teacher approval required. The course in yearbook journalism helps produce *The Accolade*, our Central Catholic High School Yearbook. Students work collaboratively and cooperatively to create a theme, design a cover, and develop a ladder. Students gain experience in page design, photography, caption writing, editing, and time management. Students also find ways to incorporate every student and staff in the yearbook. The goal of our yearbook class is to produce a yearbook that the staff, the school, and the community can enjoy. *Elective Course.*

BIOLOGY1 CREDIT(FULL YEAR)

This course provides an in-depth study of the living world. In this course, students will focus on life science topics which include: Characteristics of Life, Basic Chemistry, Organic Molecules, The Cell (Discovery, Cell Theory, Organelles, Cell Transport), Cellular Respiration and Photosynthesis, Mitosis and Meiosis, the Foundation of Genetics, Structure and Function of DNA (DNA, RNA, and Protein Synthesis), Classification of Living Things, Ecology, and The Interdependent Relationships in Ecosystems. To reinforce the concepts learned in the classroom, students will engage in hands-ons activities and practice safety and procedural skills conducted in the laboratory.

(H) BIOLOGY1 CREDIT(FULL YEAR)

Enrollment in this course will be based on Math and English placement. This is an advanced level course that provides an in-depth study of the living world. In this accelerated course students will learn about the foundational concepts of life science and build upon them using research and application. The life science topics covered in the course are: Characteristics of Life, Basic Chemistry, Organic Molecules, The Cell (Discovery, Cell Theory, Organelles, Cell Transport), Cellular Respiration and Photosynthesis, Mitosis and Meiosis, the Foundation of Genetics, Structure and Function of DNA (DNA, RNA, and Protein Synthesis), Classification of Living Things, Ecology, and The Interdependent Relationships in Ecosystems. To reinforce the concepts learned in the classroom, students will engage in hands-on activities and practice safety and procedural skills conducted in the laboratory.

INTEGRATED CHEMISTRY & PHYSICS1 CREDIT(FULL YEAR)

PREREQUISITE: Biology. Integrated Chemistry & Physics is designed to serve as a foundational course for other high school science courses. It is a laboratory course that integrates principles of chemistry and physics. The Integrated Chemistry & Physics course develops understanding of the core concepts of chemistry: Structure and Properties of Matter; the Periodic Table of Elements; and Chemical Reactions. It also explores concepts in physics: Forces and Interactions; Energy; and Waves and Electromagnetic Radiation. The objectives in Integrated Chemistry & Physics allow high school students to explain more in-depth phenomena central not only to the physical sciences, but to life and space sciences as well. These objectives blend the core ideas with scientific and engineering practices and crosscutting concepts to support students in developing usable knowledge to explain ideas across the science disciplines.

(H) CHEMISTRY1 CREDIT(FULL YEAR)

PREREQUISITE: A/B in Honors Biology and A/B in Honors Algebra 1 with teacher recommendation. In Honors Chemistry, students work independently and cooperatively with peers to investigate through study and experimentation topics such as organization and phases of matter, the periodic table, elements and compounds, atomic structure, isotopes, nomenclature, chemical bonding, chemical reactions, stoichiometry, acids and bases, solutions, and gas laws. Special emphasis is placed upon the hands-on, interactive nature of chemistry and the application of chemistry/science concepts to real world systems and issues. Through lecture, group activities, and laboratory experiments, students work to develop their critical thinking and problem-solving skills, both in class and in the laboratory, in asking pertinent questions, conducting experiments, and proposing answers to important scientific problems. As an honors course, the pace of the class will be more accelerated compared to standard chemistry, topics will be covered more in-depth, and emphasis will be placed upon the use of mathematics to deepen understanding of chemistry concepts and principles.

(H) PHYSICS1 CREDIT(FULL YEAR)

PREREQUISITE: A/B in Honors Chemistry with teacher recommendation. Honors Physics is an algebra-based, introductory course highlighting phenomena that can be observed through experimentation and mirrors a typical first semester college-level physics course. Topics include Newtonian mechanics, interaction of forces, gravitation, energy and momentum. Special emphasis is placed on data collection and quantitative analysis in the laboratory that enriches the concepts discussed during class. Through this course, students build their understanding of how the world works while practicing critical thinking and reasoning skills to answer real-world scientific questions. As an honors course, topics will be covered in greater depth and emphasis will be placed on the use of mathematics to deepen understanding of physics concepts and principles.

COLLEGE CHEMISTRY I1 CCHS CREDIT/4 COLLEGE CREDITS(FULL YEAR)*WLU Tuition Fee Applies*

PREREQUISITE: A/B in Honors Chemistry and A/B in Honors Geometry with teacher recommendation. College Chemistry I is a dual-credit chemistry course in which students have the opportunity to earn both high school and college credit for successful completion of the course. The course curriculum is aligned with Wheeling University's general chemistry lecture and laboratory courses and will be taught according to the standards, objectives, and expectations of a college-level chemistry course. This course is designed and organized so that the students can acquire a thorough understanding of the important principles of atomic structure, electronic configuration, chemical formulas, and nomenclature. Further emphasis is placed on mass balance problems in solutions. Specific topics covered include classification and phases of matter, unit conversions, dimensional analysis, chemical bonding and nomenclature, stoichiometry, atomic structure as it relates to electron configurations, periodic trends, molecular geometry, bond polarity, thermochemistry, and nuclear chemistry. In the laboratory component of the course, students will be tasked with drawing, explaining, and interpreting representations, using mathematics and logical routines appropriately, asking and refining scientific questions, designing and implementing data collection strategies, analyzing and evaluating data, making predictions and justifying claims with evidence, and connecting chemistry concepts across the topics covered.

COLLEGE CHEMISTRY II
(FULL YEAR)

1 CCHS CREDIT/4 COLLEGE CREDITS
WLU Tuition Fee Applies

PREREQUISITE: A/B in College Chemistry I and A/B in Honors Algebra II with teacher recommendation. College Chemistry II is a dual-credit chemistry course in which students have the opportunity to earn both high school and college credit for successful completion of the course. The course curriculum is aligned with Wheeling University's general chemistry lecture and laboratory courses and will be taught according to the standards, objectives, and expectations of a college-level chemistry course. This course is designed and organized so that the students can acquire a thorough understanding of the important principles of intermolecular forces, colligative properties, kinetics, equilibrium, thermodynamics and electrochemistry. In the laboratory component of the course, students will be tasked with drawing, explaining, and interpreting representations, using mathematics and logical routines appropriately, asking and refining scientific questions, designing and implementing data collection strategies, analyzing and evaluating data, making predictions and justifying claims with evidence, and connecting chemistry concepts across the topics covered.

ANATOMY AND PHYSIOLOGY I
(FULL YEAR)

1 CREDIT

PREREQUISITE: Biology. Students learn the biological systems of the human body. Student understanding is enhanced by laboratory comparisons with similar systems in other animal species. Students learn numerous laboratory skills, as well as laboratory safety. Students will be able to name and identify various structures in other animal species that are similar, structure wise, to themselves. Through the dissection of fetal pigs and cats, students learn both the similarities and the differences between human and other animal structures. The use of computers and interactive probes aid in the laboratory skills obtained. Students learn to name and identify different bones, muscles and organs, as well as various other structures. Topics include: the cell, cellular energy, DNA, tissue, the integumentary system, skeletal system and muscular system. A microscopic camera is used to aid in the investigation of tissues and cell functions.

ANATOMY AND PHYSIOLOGY II
(FULL YEAR)

1 CREDIT

PREREQUISITE: A/B in Anatomy and Physiology I. This course is a continuation of Anatomy I providing a more detailed look at specific organs, organ functions and human biological systems, as well as becoming more meticulous with laboratory skills. Topics include: a review of the muscular system, the nervous system, blood, digestive system, cardiovascular system and reproductive systems. Particular emphasis is placed on the brain, the cardiovascular system and blood. A substantial portion of class is devoted to laboratory comparisons of animals and human organs and systems. Students begin by dissecting rats to review skills and knowledge gained in Anatomy I. EKGs, blood typing, blood pressure, as well as dissection of brains, hearts and uteri. The use of computers, software and probes are used to gather data and investigate human anatomical systems.

AP BIOLOGY1 CREDIT*(FULL YEAR)*

PREREQUISITE: A/B in Honors Chemistry with teacher recommendation. This course is offered to highly motivated students who wish to pursue an interest in the life sciences. AP Biology is a college-level introductory biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolutions, cellular processes, energy and communication, genetics, information transfer, ecology and interactions. This course requires that 25% of the instructional time will be spent in hands-on laboratory work with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices. Students are required to take the comprehensive AP Biology Exam, published and administered by The College Board, at the end of the school year. Depending upon the exam score, students have the potential to earn college credits (determined by individual universities and colleges).

ZOOLOGY0.5 CREDIT*(SEMESTER 1)*

PREREQUISITE: Biology OR Honors Chemistry. This course will cover a detailed study of the animal kingdom. Students will begin the course reviewing the classification system and the criteria an organism must have in order to be considered an animal. Students will then learn about animal body plans, the development of tissues, symmetry, and the different types of body cavities. After the completion of these introductory topics, students will examine and explore the different phyla of animals. The exploration of the different phyla will begin with invertebrates such as sponges, cnidarians, worms, mollusks, arthropods, echinoderms, and invertebrate chordates. The study of vertebrates will include: fish, amphibians, reptiles, birds, and mammals. Microscopes will be utilized in this course to view some of the animals and their anatomical structures. Students are required to perform the nine dissections that take place in this class.

DNA/GENETICS0.5 CREDIT*(SEMESTER 2)*

PREREQUISITE: Biology OR Honors Chemistry. This is an upper level biology course that builds on the basic studies of DNA and the genetic principles that are taught during integrated biology. DNA topics will include: DNA Structure, DNA Replication, Transcription and Translation (Protein Synthesis), genetic recombination, genetic mutations, human genetic disorders, the human genome, and biotechnology. Genetics topics will include a review of Meiosis, Mendelian Genetics, and basic patterns of inheritance. After the review, topics will include complex patterns of inheritance, which include: codominance, multiple alleles, polygenic traits, epistasis, and sex-linked traits.

ENVIRONMENTAL SCIENCE0.5/1 CREDIT*(SEMESTER/YEAR) (FULL YEAR COURSE IF TAKEN AS REQUIRED SCIENCE & NOT AN ELECTIVE.)*

PREREQUISITE: Biology OR Honors Chemistry. Environmental Science is an overview of the ecological, geological, and social systems that encompass the natural environment and its interaction with human society. Activities in the lab will investigate the many relationships in the natural world, with an emphasis on using engineering and technology to analyze solutions for real-world environmental problems. Topics pull from multiple disciplines to provide students with the scientific concepts, principles, and tools to understand the field of environmental science and include biodiversity and ecosystems, populations, weather and climate, pollution, natural disasters, energy, sustainability, Earth systems and resources, and land and water use. Special emphasis is placed on climate change, the science evidence for climate change, its impact on humanity, and actions to mitigate or adapt to climate change.

WORLD HISTORY

1 CREDIT

(FULL YEAR)

PREREQUISITE: None. This course studies the evolution of societies to the early Twentieth Century. It combines historic events and geographical facts with social, political, economic, and cultural developments. The course is designed to help students appreciate and understand people from all regions of the world, with the goal of understanding how all societies helped to shape the modern world. The course is designed to engage students in discussion and analysis of multiple perspectives, and introduces visual and textual analysis of primary and secondary sources, expository writing, and independent and group research. The topics covered and skills developed in this course are vertically aligned with standard US Studies.

(H) WORLD HISTORY

1 CREDIT

(FULL YEAR)

PREREQUISITE: Teacher recommendation. This course studies the evolution of societies to the early Twentieth Century. It combines historic events and geographical facts with social, political, economic, and cultural developments. The course is designed to help students appreciate and understand people from all regions of the world, with the goal of understanding how all societies helped to shape the modern world. The course is designed to engage students in discussion and analysis of multiple perspectives, and introduces visual and textual analysis of primary and secondary sources, expository writing, and independent and group research. The topics covered and skills developed in this course are vertically aligned with AP US History.

US STUDIES

1 CREDIT

(FULL YEAR)

PREREQUISITE: World History. This course is a study of American society from colonization of what would become the United States to America's continued role in the current complex global community. It stresses the evolution of the Constitution as a living document and the role of participatory democracy in the development of a rapidly changing society. The course is designed to engage students in discussion and analysis of multiple perspectives, building on students' skills using visual and textual analysis of primary and secondary sources, expository and argumentative writing, and independent and group research. The topics covered and skills developed in this course are vertically aligned with the following courses: World Geography, Psychology, and Civics.

(H) US STUDIES

1 CREDIT

(FULL YEAR)

PREREQUISITE: Honors World History or teacher recommendation. This course is a study of American society from colonization of what would become the United States to America's continued role in the current complex global community. It stresses the evolution of the Constitution as a living document and the role of participatory democracy in the development of a rapidly changing society. The course is designed to engage students in discussion and analysis of multiple perspectives, building on students' skills using visual and textual analysis of primary and secondary sources, expository and argumentative writing, and independent and group research. This course also uses AP skills for writing, analysis, and critical thinking to enhance student learning. These skills are beneficial in others honors, AP, and college level classes. The topics covered and skills developed in this course are vertically aligned with the following courses: World Geography, Psychology, Civics, and AP Government.

CULTURAL STUDIES

0.5 CREDIT

(SEMESTER)

PREREQUISITE: World History, US Studies. This course introduces students to different cultures through the lenses of political and social events; they also analyze how these major events have shaped the areas throughout the years of development. Students use geographic perspectives and technology to interpret culture, environment and the connection between them. The students will have a solid framework of knowledge for the physical placement of the areas of study through the use of maps and testing on the maps. The students will study how war, social structures, political parties / leaders, resources, and economies affected their livelihood and development. The physical areas of study are Appalachia, Africa, Europe, Asia, and South America. The themes looked at are drug use and abuse in Appalachia, the Genocides of Africa and Europe throughout the years, human trafficking in Asia, and Dictatorial Leaders in South America. This class is comprised of written assessments, projects, novels, debates, and maps that relate to our unit of study. The course curriculum is designed to align with the National Council for Social Studies national framework and standards.

CONTEMPORARY STUDIES

0.5 CREDIT

(SEMESTER)

PREREQUISITE: World History, US Studies. This course examines the interactions between the United States and the world with a focus on the political, cultural, and social issues and trends that impact students' lives. Students will engage in critical thinking and problem-based learning opportunities as they learn and work with factual historical content, geography, civics, economics, and other social studies concepts. The course will provide a venue for students to examine factors that influence changing political and economic relationships and foreign policies between the United States and its world neighbors.

INTRODUCTION TO PSYCHOLOGY

0.5/1 CREDIT

(SEMESTER 1/YEAR)

PREREQUISITE: World History, US Studies. This course introduces students to the systematic study of human behavior and mental processing, also known as Psychology. While doing so, the students will consider the psychologists and studies that have shaped the field, explore and apply psychological theories, key concepts, and phenomena associated with the major units that we will reach throughout the year. These units are Personality, Positive Psychology and Motivation, Learning, Social Psychology, Drug Classification/Use and Abuse, and Abnormal Psychology. Throughout the course students employ ethical consideration as well when analyzing past experiments and social movements. This course is comprised of both written assessments and projects.

GOVERNMENT

1 CREDIT

(FULL YEAR)

PREREQUISITE: World History, US Studies, Senior Year Only. In this course students learn and utilize knowledge and skills to foster responsible citizenship in a participatory democracy. Students explore political ideas, institutions, policies, events, and behaviors that have characterized American government and politics. Students examine politically significant concepts and themes including civil rights and responsibilities; the social, economic, and environmental implications of government action; and awareness of the global impact of American policies. The course is designed to engage students in discussion and analysis of multiple perspectives, building on students' skills using graphic and textual analysis of primary and secondary sources, expository and argumentative writing, and independent and group research. To show evidence of knowledge and understanding of the goals and themes of the course, students engage in a capstone community service project, either individually or as a group.

AP UNITED STATES GOVERNMENT AND POLITICS

1 CREDIT

(FULL YEAR)

PREREQUISITE: A/B (H) World History, (H) US Studies required, Senior year or teacher recommendation Junior year. AP United States Government and Politics is a college-level introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will read and analyze US foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions between political institutions and behavior. They will read and interpret data, develop evidence-based arguments, and engage in an applied civics or politics research-based project. (as described by College Board) Students are required to take the comprehensive AP United States Government and Politics Exam, published and administered by The College Board, at the end of the school year. Depending upon the exam score, students have the potential to earn up to 9 college credits (determined by individual universities and colleges).

WVNCC COLLEGE PSYCHOLOGY

1 CCHS CREDIT/3 COLLEGE CREDITS

(SEMESTER 1)

WVNCC Tuition Fee Applies

PREREQUISITE: (H) US Studies & teacher recommendation, Seniors Only. A survey of contemporary psychology, including the topics of conditioning and learning, sensation and perception, psychophysiology, motivation and emotion, memory and cognition, development, social behavior, psychological testing, personality, psychopathology and psychotherapy. Participation in research projects or an alternative exercise is required.

FRENCH I (FULL YEAR)

1 CREDIT

PREREQUISITE: None. This course is an introduction to the French language and culture. Skills in listening, speaking, reading, and writing are taught with particular emphasis on oral proficiency in the language. Students model correct pronunciation and have ample opportunity to speak French in the classroom. Basic grammatical structures and thematic vocabulary are presented. Students also complete a cultural unit on the geography of France.

FRENCH II (FULL YEAR)

1 CREDIT

PREREQUISITE: French I or Placement Test. This course continues with the skills learned in French I. Vocabulary and grammar become more complex, and new verb tenses are presented. More of the classroom dialogue is in French and students understand and speak on a higher level. Students complete a cultural unit on Paris and do a cultural project on a French-speaking country. There is an expectation of using French as much as possible in and out of the classroom.

FRENCH IIB (FULL YEAR)

1 CREDIT

PREREQUISITE: French I or Placement Test. This course continues with the skills learned in French I. Vocabulary and grammar become more complex, and new verb tenses are presented. More of the classroom dialogue is in French and students understand and speak on a high level. Students complete a cultural unit on Paris and do a cultural project on a French-speaking county.

(H) FRENCH III (FULL YEAR)

1 CREDIT

PREREQUISITE: French II and teacher recommendation. Students continue to develop their communication skills with particular emphasis placed on listening and speaking. Students present material orally to the class, participate in class discussion in the target language, and improve their listening comprehension through a series of dictations. More complex grammatical concepts and verb tenses are presented. Students also complete a cultural unit on French art.

(H) FRENCH IV (FULL YEAR)

1 CREDIT

PREREQUISITE: French III and teacher recommendation. French is used as the primary language of communication in this advanced language class. Students continue to improve their communication skills through a series of impromptu speaking exercises and read short stories and poetry to enhance their reading skills. Advanced verb tenses and their uses are presented, preparing students for college placement tests. Cultural units in French IV include French history and civilization as well as the study of other French-speaking countries.

SPANISH I

1 CREDIT

(FULL YEAR)

PREREQUISITE: None. This is a brand based course designed to introduce students to the language. Included are the four basic skills of language study: speaking, listening, reading, and writing. Students will complete daily activities in text, workbook, and handouts in class. Students will learn cultures and histories of all Spanish speaking countries through projects and activities. Pronunciation activities will be practiced daily.

SPANISH II

1 CREDIT

(FULL YEAR)

PREREQUISITE: Spanish I or Placement Test. The development of the four linguistic skills acquired in Spanish I are continued in this course. Increased emphasis is placed on speaking. More complex vocabulary and grammatical concepts are introduced. The study of culture expands to include cross-cultural similarities and differences. There is an expectation of using Spanish as much as possible in and out of the classroom.

SPANISH IIB

1 CREDIT

(FULL YEAR)

PREREQUISITE: Spanish I or Placement Test. The development of the four linguistic skills acquired in Spanish I is continued in this course. Increased emphasis is placed on speaking. More complex vocabulary and grammatical concepts are introduced. The study of culture expands to include cross-cultural similarities and differences.

(H) SPANISH III

1 CREDIT

(FULL YEAR)

PREREQUISITE: Spanish II and teacher recommendation. Spanish is used as the primary means of communication in this advanced Spanish course. Additional thematic vocabulary and grammatical concepts enable students to express themselves in a more complex manner. Reading skills and cultural awareness are heightened through the introduction of Spanish/Latin American literature.

(H) SPANISH IV

1 CREDIT

(FULL YEAR)

PREREQUISITE: Spanish III and teacher recommendation. This advanced course uses Spanish as the primary language of communication in the classroom and provides students with the skills necessary to use the language in unstructured situations. Advanced vocabulary and grammatical concepts are presented. The internalization of previously learned concepts is encouraged. Further reading and discussion of literary selections enable students to identify additional cultural aspects of the Hispanic world.



INTERMEDIATE ALGEBRA I

1 CREDIT

(FULL YEAR)

PREREQUISITE: Entrance Test. This is a moderately paced course intended for incoming freshmen that prepares students for Algebra I. Topics include: concepts of directed numbers; factors and multiples of numbers; expressions; equations and inequalities; functions; and operations with binomials, polynomials, exponents, factoring and quadratic equations.

ALGEBRA I

1 CREDIT

(FULL YEAR)

PREREQUISITE: Entrance Test. This course starts with the basic concepts and terminology of Algebra. Topics include: linear and quadratic equations; functions; exponents; simplifying radicals; polynomials; factoring; graphing; and problem-solving methods.

(H) ALGEBRA I

1 CREDIT

(FULL YEAR)

PREREQUISITE: Entrance Test & teacher recommendation. The content of the honors course incorporates higher order thinking skills while covering all Algebra I topics at a faster pace. The Algebra I Honors Course is rigorous and traditional in nature and a high level of mastery is expected of students. It is designed to incorporate technology, a variety of materials and various activities.

INTERMEDIATE GEOMETRY WITH PROBLEM SOLVING

1 CREDIT

(FULL YEAR)

PREREQUISITE: Teacher recommendation & Algebra I. This course teaches the basic concepts of angles, parallel lines, polygons, congruence, similarity and right triangles. Emphasis is placed on reviewing the fundamental skills of Algebra I and the mastery of the fundamentals of Geometry.

GEOMETRY

1 CREDIT

(FULL YEAR)

PREREQUISITE: Teacher recommendation, Algebra I. This course teaches the basic concepts of angles, parallel lines, polygons, congruence, similarity, right triangles, deductive reasoning, proofs, circle theorems, area and volume.

(H) GEOMETRY

1 CREDIT

(FULL YEAR)

*PREREQUISITE: Teacher recommendation, Summation Test**, Algebra I.* The content of this honors course incorporates high order thinking skills, while covering all Geometry topics at a faster pace. The Geometry Honors Course is rigorous and traditional in nature and a high level of mastery is expected of students. It is designed to incorporate technology, a variety of materials and various activities. ****Incoming students only.**

INTERMEDIATE ALGEBRA II WITH FUNCTIONS

1 CREDIT

(FULL YEAR)

PREREQUISITE: Teacher recommendation, Algebra I & Geometry. Topics include: first-degree equations and inequalities, quadratics, polynomials, radical equations and inequalities. Emphasis is put on reviewing the fundamental skills of Algebra I and the mastery of the fundamentals of Algebra II.



ALGEBRA II

1 CREDIT

(FULL YEAR)

PREREQUISITE: Teacher recommendation, Algebra I & Geometry. Topics include: first-degree equations and inequalities, quadratics, polynomials, radical equations and inequalities. Emphasis is put on reviewing the fundamental skills of Algebra I and the mastery of the fundamentals of Algebra II.

(H) ALGEBRA II

1 CREDIT

(FULL YEAR)

*PREREQUISITE: Teacher recommendation. Summation test**, Algebra I, Geometry***.* The content of this honors course incorporates higher order thinking skills, while covering all Algebra II topics at a faster pace. The Algebra II Honors course is rigorous and traditional in nature and a high level of mastery is expected of students. It is designed to incorporate technology, a variety of materials and various activities. ****Incoming students only. ***Can be taken concurrently with (H) Geometry**

(H) PRECALCULUS WITH TRIGONOMETRY

1 CREDIT

(FULL YEAR)

PREREQUISITE: Teacher recommendation & Algebra II. The Precalculus with Trigonometry Honors course is rigorous and traditional in nature and a high level of mastery is expected of students. Topics include: radian measure, value and graphs of trigonometric functions, polar coordinates, triangle trigonometry and its applications, identities, inverses, equations, vectors, exponential and logarithmic functions and coordinate geometry of conic sections.

ADVANCED ALGEBRA

0.5 OR 1 CREDIT

(*SEMESTER 1 OR FULL YEAR)

PREREQUISITE: Teacher recommendation & Algebra II. This course is project-based in nature and reviews algebraic and geometric concepts presented in prior mathematics courses. Practical applications include: money management, compound and simple interest and spreadsheet formatting. ***When taken with S2 Statistics.**

CALCULUS

0.5 CREDIT

(SEMESTER 1)

PREREQUISITE: Teacher recommendation & Algebra II. This course is for Seniors only. This course exposes students to concepts they will encounter in their first semester of Calculus at the college level. Students will deepen and extend their understanding of functions, continuity, limits, differentiation, application of derivatives, integrals and applications of integration.



AP CALCULUS AB

1 CREDIT

(FULL YEAR)

PREREQUISITE: Teacher recommendation & Precalculus. AP Calculus AB is an introductory college-level calculus course. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits and the analysis of functions.

AP CALCULUS BC

1 CREDIT

(FULL YEAR)

PREREQUISITE: Teacher recommendation & AP Calculus AB. AP Calculus BC is a continuation of AP Calculus AB. This course will cover additional applications of the definite integral, additional techniques of integration, indeterminate forms and improper integrals. The course will also cover infinite series, parametric equations and polar coordinates, vector valued functions and exponential growth and decay.

STATISTICS AND PROBABILITY

0.5 CREDIT

(SEMESTER 2)

PREREQUISITE: Teacher Recommendation & Algebra II. This course is for seniors only. This course is student-centered and group-oriented with project-based learning and discovery. Students will collaborate on real-life situations, use technology, collect data and conduct studies. Topics covered include: One-and-Two-variable data, elementary probability and modeling, data collection, sample spaces, distributions, making decisions and probability models.

AP STATISTICS

1 CREDIT

(FULL YEAR)

PREREQUISITE: Teacher recommendation, Algebra II. AP Statistics is the high school equivalent of a one semester, introductory college statistics course. In this course, students develop strategies for collecting, organizing, analyzing, and drawing conclusions from data. Probability and simulations aid students in constructing models for chance behavior. Sampling distributions provide the logical structure for confidence intervals and hypothesis tests.

PERSONAL FINANCE

0.5 CREDIT

(SEMESTER)

PREREQUISITE: This course is a non-math credit course for Juniors & Seniors only. Topics include behavioral finance, taxes, checking, saving, paying for college, types of credit, managing credit, investing, insurance and budgeting. *Elective Course.*

HEALTH I
(SEMESTER)0.5 CREDIT

PREREQUISITE: None. This course provides a basic introduction to the three major areas of health education: social, mental and physical. Based on the information provided, students are encouraged to make healthy choices about their lifestyles. Topics include: self-esteem, stress management, personality, diet and nutrition, levels of fitness, smoking, drug and alcohol abuse and disease awareness. Students are introduced to CPR and basic First Aid techniques. This course is generally taken sophomore and junior years unless special arrangements are made.

HEALTH II
(SEMESTER)0.5 CREDIT

PREREQUISITE: None. This is a continuation of Health I topics. This course provides a basic introduction to the three major areas of health education: social, mental and physical. Based on the information provided, students are encouraged to make healthy choices about their lifestyles. Topics include: self-esteem, stress management, personality, diet and nutrition, levels of fitness, smoking, drug and alcohol abuse and disease awareness. Students are introduced to CPR and basic First Aid techniques. This course is generally taken sophomore and junior years unless special arrangements are made.

INDEPENDENT HEALTH
(SUMMER)0.5 CREDIT

PREREQUISITE: Rising Juniors and Seniors Only, Counselor Recommendation. This course is offered to rising juniors and seniors who do not have room in their schedules to complete the graduation requirement. Students should have already met a 0.5 Health credit requirement. Students will report to the Health teacher for an introductory lesson then complete a research project through the summer. See above Health course description. There is a fee for this course outside of yearly tuition. Students are introduced to CPR and basic First Aid techniques.

P.E. CCHS ATHLETIC PARTICIPATION 1 POINT
(SEMESTER)(4 POINTS = 0.5 CREDIT)

PREREQUISITE: None. Students must have 4 points total or .25 credit per season of an athletic sport participation. Four (4) seasons or four (4) points of participation in any one sport or combination of sports = 1.0 PE credit.

P.E. STRENGTH & CONDITIONING(4 POINTS = 0.5 CREDIT)

PREREQUISITE: None. Open to sophomores, juniors and seniors. Offered as a semester course. This course is offered both semesters & will be a part of the traditional student schedule. Students will attend a PE class at the gym at their designated course time. This class focuses on a variety of P.E. topics such as weight training, team sports & overall fitness activities.

VISUAL & PERFORMING ARTS



STUDIO ART I

0.5 CREDIT

(SEMESTER)

PREREQUISITE: None. Studio Art I is an introductory course designed for the beginning student artist.

Techniques taught include contour drawing, shading, still-life drawing, and beginning painting. The principles and elements of design are discussed and art history is incorporated into the class as well.

STUDIO ART II

0.5 CREDIT

(SEMESTER)

PREREQUISITE: Studio Art I. Studio Art II is designed to enhance the student artist's ability and knowledge of art styles and art techniques. Students will develop and refine technical skills learned in Studio Art I. As in Studio Art I, the principles and elements of design are discussed and art history is incorporated into the class as well.

SENIOR ART

0.5 CREDIT

(SEMESTER)

PREREQUISITE: Seniors only. Senior students who have a strong interest in visual art and may be considering a career in art or who want to build upon work beyond Studio Art I and II. Students will be challenged creatively and will be encouraged to push their artistic comfort zone. Projects include a variety of endeavors into the field of visual arts. Art history and numerous artistic styles are incorporated throughout the semester.

DIGITAL MEDIA

0.5 CREDIT

(SEMESTER)

PREREQUISITE: None. Students will develop the knowledge and skills for the development of digital media projects. Projects will include, but are not limited to animated presentations, infographics, data collection with spreadsheets and social media. All projects are done in concert with research and writing. Students will utilize GSUITE tools and industry standard professional Adobe products, which include Photoshop, Illustrator, Animate, Premiere and After Effects.

PERFORMING ARTS

0.5 CREDIT

(SEMESTER)

PREREQUISITE: None. This one semester course is designed for students with little or no theatre experience. The class promotes an understanding and appreciation of all aspects of the theatre. Classwork focuses on hands-on basic acting skills, theater terminology, technical production and creative expression through classroom projects and practicum performances. In addition, the course also develops critical listening and speaking skills, aesthetic awareness, creative problem-solving skills, and the skills to work independently and as a group to achieve a common goal. As the class is hands-on, students are expected to participate in all classroom exercises and projects.

MUSIC APPRECIATION

0.5 CREDIT

(SEMESTER 1)

PREREQUISITE: None. This class focuses on the music industry from the late 1800's until the beginning of the 21st century. This class will relate the popular music of the past century to the social changes in America and in popular culture.

VISUAL & PERFORMING ARTS



INTRO TO MUSIC THEORY

0.5 CREDIT

(SEMESTER 2)

PREREQUISITE: None. This course is open to anyone interested in learning how music is organized. Students will focus on the basics of notating, analyzing, and composing western styled music. Traditional rhythmic and tonal notation is the focus of the class, but non-traditional notation will be discussed as well.

MUSIC TECHNOLOGY I

0.5 CREDIT

(SEMESTER 1)

PREREQUISITE: None. In this class, you will learn how to produce, edit, and mix music using digital audio workstations (DAWs) that are accessible online. You will learn the fundamentals of digital audio recording and editing, including how to create and manipulate tracks, use software instruments, and apply effects and plugins. You will have access to a range of online DAWs, which will allow you to work on music projects from anywhere with an internet connection. Throughout the course, you will learn about different styles of music and how to produce and mix each one using a DAW. You will also explore the business and marketing aspects of the music industry, as well as the ethical considerations related to copyright and ownership of music. Whether you're interested in pursuing a career in music production or simply want to explore your creativity in a new way, this class is a great opportunity to learn and develop your skills in digital music production.

CHOIR/VOCAL TRAINING

0.5 CREDIT

(SEMESTER)

PREREQUISITE: None. In this class, you will focus on the fundamentals of vocal sound production and ensemble skills. While this class's repertoire will be mainly secular music for concerts, rehearsal may concentrate on liturgical music for mass.

INTRO TO STEEL DRUMS

0.5 CREDIT

(SEMESTER)

PREREQUISITE: None. You will have the opportunity to learn how to play the steel drum, a musical instrument that originated in Trinidad and Tobago. The steel drum is a unique percussion instrument made from oil drums that have been carefully crafted and tuned to produce melodic sounds. During the course, you will learn the basics of playing the steel drum, including how to hold the mallets, strike the notes, and create rhythm and melody. You will also learn about the cultural significance of the steel drum and its roots in Caribbean music. Through fun and engaging group activities, you will develop your musical skills and explore the joy of playing this beautiful and distinctive instrument. No prior musical experience is necessary - just a love of music and a desire to learn!

INTRO TO GUITAR (APPLIED)

0.5 CREDIT

(SEMESTER)

PREREQUISITE: None. In this class, you will learn the basics of playing the acoustic guitar. You will begin by learning about the parts of the guitar and how to properly tune and care for it. You'll learn how to read basic music notation and guitar tablature, and how to play chords and strumming patterns. Throughout the course, you will learn a variety of classic and contemporary songs and will have the opportunity to perform both solo and in groups. Additionally, you'll learn about the history and evolution of the acoustic guitar, as well as the different genres of music that feature the instrument. Whether you're a beginner or have some experience playing the guitar, this class is a great opportunity to develop your skills, explore your creativity, and share your love of music with others.

VISUAL & PERFORMING ARTS



ROCK BAND

0.5 CREDIT

(SEMESTER)

PREREQUISITE: Successful completion of Intro. to Guitar (B or higher) or Teacher Permission. You will have the opportunity to explore and create music in a band setting. You'll work together with other musicians to develop your skills as performers and learn how to collaborate as a team to create your own rock music. Throughout the course, you'll learn about the history of rock music, as well as the elements that make up the genre, such as instrumentation on, harmony, and rhythm. You'll also learn about the different roles in a rock band, such as lead vocalist, guitarist, bassist, and drummer. You'll have access to a variety of musical instruments and equipment and will have the chance to perform at school events and concerts. Whether you're an experienced musician or a beginner, this class is a great opportunity to develop your skills and explore your passion for rock music.

AUDIO RECORDING & PRODUCTION

0.5 CREDIT

(SEMESTER)

PREREQUISITE: Music Technology I, teacher permission. This class allows the student to use state of the art hardware and software to record and manipulate audio. Students will create their own audio for media applications: movies, commercials, and online video. Students will also learn proper microphone selection and placement, DSP (digital signal processing), and signal routing.



VIDEO PRODUCTION I0.5/1 CREDIT(SEMESTER/YEAR)

PREREQUISITE: Sophomores, Juniors and Seniors only. The course provides an introduction to the video production process, including script development, field and studio production and post-production. All projects are created using the current versions of Adobe Premiere and Adobe After Effects, which are professional level programs. Students will serve as the crew for streaming school events and sporting events via the NFHS Network (required 6 events per semester) and work a number of days on morning announcements.

VIDEO PRODUCTION II0.5/1 CREDIT(SEMESTER/YEAR)

PREREQUISITE: Video Production I or teacher approval. This course builds on the skills from Video I. Students will create a weekly show for Morning Announcements and develop skills in long-form production. The class will select and produce at least one production project that focuses on the Wheeling community. All projects are created using the current versions of Adobe Premiere and Adobe After Effects, which are professional level programs. Students will serve as the crew for streaming school events and sporting events via the NFHS Network (required 6 events per semester) and work a number of days on morning announcements.

DIGITAL MEDIA0.5 CREDIT(SEMESTER)

PREREQUISITE: None. Students will develop the knowledge and skills for the development of digital media projects. Projects will include, but are not limited to animated presentations, infographics, data collection with spreadsheets and social media. All projects are done in concert with research and writing. Students will utilize GSUITE tools and industry standard professional Adobe products, which include Photoshop, Illustrator, Animate, Premiere and After Effects.

MEDIA AND POP CULTURE PERSPECTIVES0.5 CREDIT(SEMESTER)

PREREQUISITE: Sophomores, Juniors and Seniors only. This course teaches skills and perspectives to critically analyze the media and pop culture. It examines key historical and important figures in the various media (books, magazines, radio, newspapers, film, advertising, television and internet.) The course is designed to promote discussion and learning about trending media topics and issues. Issues will include topics such as: news bias; identification of credible academic sources in the media; cancel culture; bullying on social media; body image portrayals in the media. The student will learn critical thinking about the media and pop culture through readings, examinations, video screenings, essays, and compositions, multimedia projects, classroom discussions, debates, and presentations.



INTRODUCTION TO ENGINEERING DESIGN

0.5 CREDIT

(SPRING SEMESTER)

PREREQUISITE: Juniors & Seniors only. This course is a hands-on, practical course for students to learn about the engineering design process. Students research, design, and construct solutions to open-ended engineering problems. Projects emphasize a range of digital design and fabrication tools in the TEAL Lab and Engineering makerspace.

ROBOTICS

0.5 CREDIT

(FALL SEMESTER)

PREREQUISITE: None. This course is a hands-on, practical course to learn concepts of robot construction and programming. Students explore a range of engineering topics through the application of robotics, including strength of structures, mechanical properties, materials, motor controls, pneumatics, sensors and automation, and material science using the Vex Robotics platform.

INTRODUCTION TO COMPUTER PROGRAMMING

0.5 CREDIT

(SEMESTER)

PREREQUISITE: None. This introductory computer programming class includes foundational computer science concepts and computational practices. Course content includes human computer interaction, problem solving, introduction to programming, computing and data analysis. The concepts are learned through use of the Scratch and Python programming languages.

INTERMEDIATE COMPUTER PROGRAMMING

0.5 CREDIT

(SEMESTER)

PREREQUISITE: Intermediate Computer Programming. This intermediate programming class includes computer science concepts and computational practices. Course content extends the problem solving, computing and data analysis included in Introduction to Computer Programming. The concepts are learned through use of C# within the Visual C environment.

AP COMPUTER SCIENCE

1 CREDIT

(FULL YEAR)

PREREQUISITE: Introduction to Computer Programming, Juniors and Seniors only. The CodeHS AP Java course is a year-long course designed to help students master the basics of Java and equip them to successfully pass the AP Computer Science A Exam at the end of the school year. All learning materials and resources teachers and students need for a successful year-long AP Java course can be found on the CodeHS website. The curriculum has been pre-approved by College Board's AP Course Audit as meeting or exceeding the curricular expectations colleges and universities have for this subject.

HIGH SCHOOL & COLLEGE SKILLS AND PREPARATORY COURSES



STUDY SKILLS

0.5 CREDIT

(SEMESTER)

PREREQUISITE: None. This course is designed to give students the skills necessary to become better students.

Topics include: homework guidelines, listening skills, note-taking methods, visuals, mnemonic devices, dictionary and library skills, test preparation, and test-taking skills.

SAT/ACT PREP

0.5 CREDIT

(SEMESTER 1)

PREREQUISITE: Juniors and Seniors Preferred. This course is designed to improve student performance on the SAT and ACT college entrance exams in particular, as well as on standardized tests in general. Methods include practice questions and tests, vocabulary building, question analysis, general test-taking strategies, and strategies for specific question types.

SENIOR PROJECT COURSE

0.5 CREDIT

(SEMESTER)

PREREQUISITE: Senior/ Application with Faculty Approval. This course is an opportunity for seniors to engage in an in-depth study of a topic that is an area of high interest and create a physical (tangible) project/product. The course will encourage students to think critically, solve challenging problems and develop skills in research, planning and goal setting, all through a single, independent project. Students will write weekly journals/reports, develop portfolios of the work accomplished and make public presentations at the conclusion of the semester.

LEADERSHIP STUDIES

0.5 CREDIT

(SEMESTER)

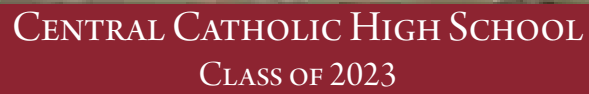
PREREQUISITE: Juniors and Seniors only. This course will reflect on the following questions: What characteristics make strong leaders? Can leadership be taught? What is quiet leadership or leadership by example? This course will be an analytical study of leadership. Students will be asked to study & critically analyze great leaders of the past. This course will be conducted in a seminar style with guest speakers who are considered leaders in their fields. The course will allow students the opportunity to meet leaders in their places of work & will examine what leadership means to each student in their various roles as teenagers & into their futures.

INTRODUCTION TO SPORTS MEDICINE

0.5 CREDIT

(SEMESTER)

PREREQUISITE: B or better in Biology and Chemistry. Juniors and Seniors only with teacher approval. This course will provide students with a general overview of sports medicine. It includes introductory information about injury prevention, identification, treatment, rehabilitation and emergency injury management. This course is intended to give students an understanding of sports medicine, various associated disciplines and the role they play in the treatment of patients.



COLLEGE ADMISSIONS

Students from 2019-2024 have been accepted to the following colleges and universities:

Adelphi University, Alderson Broaddus University, Allegheny College, American University, Auburn University, Baldwin Wallace University, Belmont College, Belmont University, Bethany College, Boston University, Bradley University, Brown University, Bucknell University, Carlow University, Carnegie Mellon University, Clarion University, Catholic University, Chatham University, Clemson University, Cleveland State University, Coastal Carolina University, College of Charleston, College of Wooster, Colorado State University, Columbia University, Concordia University, Cornell University, Denison University, Drexel University, Duke University, Duquesne University, Eastern Nazarene College, Elon University, Embry-Riddle Aeronautical University, Fairleigh Dickinson University, Fairmont State University, Florida Institute of Technology, Franciscan University, Frostburg State University, Furman University, George Washington University, Georgia Institute of Technology, Geneva College, Grove City College, Harcum College, High Point University, Hood College, Indiana University, Indiana University of Pennsylvania, Inspiration Academy, James Madison University, John Carroll University, Keiser University, Kent State University, Laurel Business Institute, Lebanon Valley College, Lindenwood University, Louisiana State University, Loyola Maryland University, Manhattan College, Marietta College, Marshall University, Marymount Manhattan College, Mercyhurst University, Miami University (Ohio), Michigan State University, Middle Tennessee State, Missouri University of Science and Technology, National University of Ireland Galway, North Carolina State University, Nova Southeastern University, Novi Sad University, Ohio Dominican University, Ohio State University, Ohio State University-Marion, Ohio University, Otterbein University, Pace University, Penn Western University, Pennsylvania State University, Pittsburgh Technical College, Pittsburgh Greensburg University, Purdue University, Rasmussen University, Reynolds Memorial Hospital School of Nursing, Robert Morris University (PA), Rochester Institute of Technology, Rosedale Technical College, Salem International University, Samford University, Seton Hill University, Shepherd University, Slippery Rock University, St. Mary's College, St. Vincent College, Suffolk University, Swarthmore College, Syracuse University, Temple University, Texas Christian University, Thiel College, Thomas Moore College, Tulane University, United States Air Force, United States Marine Corp, United States Naval Academy, University of Akron, University of Arizona, University of Bridgeport, University of California Berkeley, University of California Los Angeles, University of Charleston, University of Chicago, University of Cincinnati, University of Colorado Boulder, University of Dayton, University of Kentucky, University of Maryland, University of Miami, University of Michigan, University of Mississippi, University of Mount Union, University of New Hampshire, University of North Carolina at Wilmington, University of Notre Dame, University of Pennsylvania, University of Pikeville, University of Pittsburgh, University of Pittsburgh-Bradford, University of Rhode Island, University of South Carolina, University of Southern Florida, University of Tennessee Knoxville, University of Vermont, University of Washington, USMA West Point, Wright State University, Valley Forge Military Academy, Vanderbilt University, Virginia Tech University, Virginia Wesleyan, Wake Forest University, Walsh University, Washington & Jefferson College, Waynesburg University, West Liberty University, West Virginia Northern Community College, West Virginia State University, West Virginia Tech, West Virginia University, West Virginia Wesleyan College, Western Kentucky University, Westminster College, Wheeling University, Wingate University.



Central Catholic High School

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