UPPERMAN HIGH SCHOOL

"Engage, Inspire, and Achieve"

6950 Nashville Hwy • Baxter, Tennessee 38544 • Telephone (931) 858-3112 • Fax (931) 858-4641

William G. Stepp - Principal
Breeonna Wheeler - Assistant Principal
Nathan Brown - Assistant Principal

WELCOME TO UPPERMAN HIGH SCHOOL CLASS OF 2025!

We have several activities planned over the next week to assist you and your parents/guardians as you prepare for the transition to high school.

Freshmen Registration will be held on Tuesday, February 16 @ 5:30pm at Upperman High School (UHS). Administrators and school counselors will deliver an overview of the high school experience.

Masks are required. Each student may bring one (1) parent/guardian.

Please do not hesitate to call or email your school counselor with questions or concerns. Counselors are available to meet in person, over the phone, or via Zoom/Google Hangouts after Freshman Registration on February 16.

Students with Last Names A – K counselor, Ms. Rebekah Hurley, rebekah.hurley@pcsstn.com
Students with Last Names L – Z counselor, Dr. Jamie Torrence, jtorrence@pcsstn.com
Phone: (931) 858-3112

Summary of registration events:

- 2/9 & 2/10: 8th grade classroom meetings with Ms. Upton/UMS counselor
- 2/11: UHS CTE and AP faculty and students will visit UMS
- 2/12: 8th graders will visit UHS/CTE programs
- 2/16 @ 5:30pm: Freshman Registration @ UHS
  - Last Names A - K (main gym) with Ms. Hurley/UHS counselor
  - Last Names L - Z (auditorium) with Dr. Torrence/UHS counselor
- 3/12: Course selection sheets are due (please submit to Ms. Upton @ UMS)
- July 2021 - Freshman Orientation - tour school, meet teachers, pick up schedules

The Upperman Bees are excited to welcome you to our family and we know you will love to be a Bee!

Cordially,

William G. Stepp

UHS REGISTRATION FORM: FRESHMAN (2021-22)

Student:_____

Selected Program of Study (3 credits must be earned in one area):

_____Advanced Placement (AP) _____Dual Enrollment (DE) _____Fine Arts _____Math & Science

_____Humanities
(includes Social Studies, Foreign Language, and/or Language Arts)

_____JROTC

_____Career and Technical Education (CTE)
Agriculture, Food & Natural Resources ____
Architecture & Construction ____
Certified Nursing Assistant (CNA) ____
Distribution & Logistics ____
Health Science ____
Human Services ____

Math	**English I**	**Science**	**Social Studies**
Int. Math I R _____ H _____ Int. Math II R _____ H _____ Int. Math III R _____ H _____ Precalculus H _____	R _____ H _____ **English II** R _____ H _____	Physical Science ____ Physical Science H ____	W. History & Geog. ____ AP World History ____
Fine Art(s)	**Elective**	**Elective**	**2 Alternates**
Art I ____ Concert Band ____ Drama I ____ General Music ____ Instrumental Music I ____ Music Theory ____ Vocal Music I ____ Vocal Music II ____			

Elective/Alternate Classes:

Art I or II Concert Band Drama I General Music Instrumental Music I Music Theory Vocal Music I or II	Agriscience	Fund. of Construction	Health Science Ed. (CNA)	Contemporary Issues Journalism/Yearbook Humanities H
PE Strength & Conditioning	JROTC	Found. of D & L	Health Sci. Education	Intro. to Human Studies

☐ ***If full-time virtual learning is offered as an option for the 2021-2022 school year, I would be interested in this option.***

All of the above course requests have been reviewed and verified.

_____ _____

Parent/Guardian Signature Date Student Signature Date

Please make course selections carefully. Classes are developed according to data obtained during the registration process. The master schedule is established using the number of student requests. Every effort will be made to place students in selected courses and/or alternates. **Changes to selected courses after the start of the school year will be subject to availability and/or administrative approval.**

Upperman High School
Curriculum Guide for 2021-22

Mr. Billy Stepp, High School Principal
Email: steppw@pcsstn.com

Ms. Rebekah Hurley, School Counselor (Last Names A – K)
Email: rebekah.hurley@pcsstn.com

Dr. Jamie Torrence, School Counselor (Last Names L – Z)
Email: jtorrence@pcsstn.com

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PCSS COURSE CATALOG FOR GRADES 5 - 12

This publication is designed to give a broad view of the secondary program. The information provided in this publication is designed to assist students and parents/guardians in planning and making choices for students' high school careers. The most current Course Catalog can be found on the PCSSTN website.

GRADUATION REQUIREMENTS

Students need 22 credits in order to graduate.

4.0 credits of English
4.0 credits of Mathematics
3.0 credits of Science
3.0 credits of Social Studies
2.0 credits of Foreign Language
0.5 credit of Physical Education
1.0 credit of Wellness
0.5 credit of Personal Finance
1.0 credit of Fine Arts
3.0 credits of Electives in Program of Study

PROGRAMS OF STUDY (POS)

All Students identify a POS in which they must take a minimum of three courses to meet graduation requirements.

Agriculture, Food & Natural Resources	Architecture & Construction	Certified Nursing Assistant (CNA)
Distribution & Logistics	Health Science	Human Services
Fine Arts	Humanities	Math & Science
Advanced Placement	Dual Enrollment	JROTC

GRADING

A	100-93	4 points
B	92-85	3 points
C	84-75	2 points
D	74-70	1 point
F	69-0	0 points

Added Value (Weighted Scale)
AP/DE – 1
Statewide Dual Credit – .75
Honors – .5

HONOR ROLL

The Honor Roll will be determined at the end of each of the four quarters and will consist of students who earn (1) All A's, (2) All A's and B's, and (3) All B's.

TYPES OF DIPLOMAS

Honors
Students will graduate with honors by scoring at or above all of the ACT College Readiness Benchmarks or by earning equivalent scores on the SAT.

ACT Benchmarks
English: 18
Reading: 22
Mathematics: 22
Science: 23

Distinction
Students will graduate with distinction by attaining a B (3.0 unweighted) average and completing at least one of the following:

- earn a nationally recognized industry certification
- participate in at least one of the Governor's Schools
- participate in one of the state's All State musical organizations
- attain a composite score of 31 or higher on the ACT
- attain a score of 3 or higher on two or more advanced placement (AP) exams

- earn 12 or more semester hours of transcripted postsecondary credit

Tennessee Scholars
Students will graduate as a Tennessee scholar by attaining a C (2.0 unweighted) average and meeting all of the following criteria:

- 4 math credits (alg I/II, geometry and one higher math)
- 3 credits of lab science (biology, chemistry, and one additional class...physics is preferred)
- regular diploma requirements for social studies, foreign language, fine arts, PE/Wellness, and personal finance
- 2 CTE, 2 AP, 2 dual enrollment, or 2 online credits
- 95% attendance
- 80 hours of documented volunteer service
- no D or F as a final grade in any course
- no out of school suspensions

TriStar Scholar
Students may be recognized as a Tennessee TriStar Scholar by earning a composite score of 19 or higher on the ACT and earning a capstone industry certification.

PCSS Work-Based Learning Distinction
Students who meet the following criteria will be recognized at graduation as achieving PCSS local distinction:

- Overall GPA of 2.5 or better
- 90% or better attendance in Work-Based Learning
- Successful completion of at least one semester of Work-Based Learning

CLASS RANK

All seniors who attained a 21 or higher composite score on the ACT will be ranked. Class ranking is calculated at the end of the first semester of grade 12 after February ACT scores are received. This ranking determines the valedictorian and salutatorian for graduation. Per Board policy, the final semester will not be used in determining class ranking.

LATIN HONORS

The highest level of honor is Summa Cum Laude which means *with highest honor*. The GPA range for attaining this level of honor at UHS is 4.3 and above. Students graduating Summa Cum Laude will wear a gold stole as part of their academic regalia during the graduation ceremony.

The next level of honor is Magna Cum Laude which means *with great honor*. The GPA range for attaining this level of honor at UHS is 4.1 - 4.299. Students graduating Magna Cum Laude will wear a white stole as part of their academic regalia during the graduation ceremony.

The other level of honor is Cum Laude meaning *with praise or with honor*. The GPA range for attaining this level of honor at UHS is 3.9 - 4.099. Students graduating Cum Laude will wear a silver stole as part of their academic regalia during the graduation ceremony.

DUAL ENROLLMENT

Upperman students are able to take dual enrollment courses that may count as both high school and college credit through Tennessee Technological University and/or Volunteer State Community College. The colleges will determine tuition costs each school year. Juniors and seniors may be eligible for the Dual Enrollment grant.

Please visit http://www.tn.gov/collegepays/mon_college/dual_enroll_grant_rules.htm for more information or contact Upperman's VITAL/Dual Enrollment Coordinator, Becky Maynard, at rmaynard@pcsstn.com.

NCAA ELIGIBILITY REQUIREMENTS

Students who plan to participate in Division I or II athletics in college must meet stringent academic eligibility requirements in high school. Students must have a specific GPA in required courses and have specific ACT/SAT scores. More information can be found at **www.ncaaclearinghouse.net**. The following is a list of NCAA required courses:

Division I (16 Core-Course Rule)

- 4 years of English
- 3 years of Math (Algebra I or higher)
- 2 years of Science
- 2 years of Social Science
- 1 extra year of English, Math or Science
- 4 years of additional core courses (from any category above or Foreign Language)

MATHEMATICS

Integrated Mathematics I
The purpose of Mathematics I is to formalize and extend the mathematics that students learned in the middle grades with an emphasis on algebra and linear functions as well as an introduction to geometry in order to deepen and extend understanding of linear relationships.

Integrated Mathematics II
Prerequisite: Successful completion of Integrated Mathematics I
The focus of Mathematics II is on quadratic expressions, equations, and functions; comparing their characteristics and behavior to those of linear and exponential relationships from Mathematics I along with a deeper exploration of geometry that includes an introduction to trigonometry.

Integrated Mathematics III
Prerequisite: Successful completion of Integrated Mathematics II
In Mathematics III students pull together and apply the accumulation of learning from their previous courses, with content grouped into four critical areas. They apply methods from probability and statistics to draw inferences and conclusions from data. Students expand their repertoire of functions to include polynomial, rational, and radical functions. They expand their study of right triangle trigonometry to include general triangles. And, finally, students bring together all of their experience with functions and geometry to create models and solve contextual problems.

Senior SAILS/Bridge Math
This course fulfills the Bridge math credit required for all seniors who have not earned 19 or above on the mathematics component of the ACT while at the same time earning students college credit in required developmental math. It reviews basic algebra concepts in a blended learning format with online content and math teachers acting as guides.

Applied Mathematical Concepts
This course is designed for students interested in careers such as banking, industry or human resources. Designed with Tennessee industry needs in mind, it combines problem solving experience by utilizing counting techniques and combinatorial reasoning, linear programming, basic probability and statistics, logic and Boolean algebra, sets, analysis of arguments and in depth study of financial mathematics.

Honors Precalculus
Prerequisite: Successful completion of Honors Integrated Math III
This course is an extension of the topics covered in Advanced Algebra & Trigonometry. It includes a detailed study of trigonometry including circular and trigonometric functions, polar coordinates and complex numbers, graphs, theory of equations, sequences and series, exponential and logarithmic functions, and analytic geometry.

Honors Statistics
Prerequisite: Successful completion of Honors Integrated Math III
This course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Statistics differs greatly from other mathematical courses in that the focus is not on numbers, computations, and one right answer. Instead, in this course the student relies heavily on written communication skills to make the appropriate assumptions and interpretations for real-world situations based on data.

Advanced Placement (AP) Calculus AB
Prerequisite: Successful completion of Honors Precalculus; An AP exam fee will be incurred
AP Calculus demands analytical reasoning skills and disciplined study habits appropriate for continued success at the college level. Demonstrated ability in mathematics is the most important student qualification. Students will study basic concepts of Calculus as applied to linear functions, absolute value functions, polynomial functions, rational functions, exponential functions, and much more.

Advanced Placement (AP) Calculus BC
Prerequisite: Successful completion of AP Calculus AB; An AP exam fee will be incurred
Calculus BC is designed to prepare the student for the BC section of the AP exam. Topics will be covered in depth and will go beyond the scope of the AB course described above. The course is taught with the rigor of a college course, and students will be required to complete a unit of review topics during the preceding summer. Calculus BC is designed to prepare the student for the BC level of the AP exam which could earn the students college credit in Calculus I and II.

Advanced Placement (AP) Statistics
Prerequisite: Successful completion of Honors Algebra II or Honors Integrated Math III or above average success in Algebra II or Integrated Math III with teacher recommendation; An AP exam fee will be incurred
The intent of the course is to introduce the student to the major concepts and tools for collecting, analyzing, and drawing conclusions from data.

ENGLISH

English I
Grammar, composition, vocabulary and literature are taught in the ninth grade. In grammar, recurring usage problems are determined by diagnostic tests and treated according to need. Extended emphasis is given to sentence structure and the creative skills necessary for clear written communication.

Honors English I
This course combines advanced grammar and composition skills with the study of world literature. Honors students have the opportunity to study a variety of historical and contemporary outside reading sources.

English II
This course is the further study of grammar, vocabulary, composition, and world literature. The grammar skills of usage and mechanics will be reinforced.

Advanced Placement (AP) English Language & Composition
An AP exam fee will be incurred.
This college-level high school course focuses on American literature from the Colonial period to the Post Modernist. The literary efforts of such movements as Puritanism, transcendentalism, and existentialism are examined through literary analysis, expository writing, and discussion. Above average writing skills and self-discipline for independent study are necessary for success in this course.

English III
This course focuses on the extension of basic grammar usage and mechanics skills. This course also includes the study of American literature and several literary classics. Students will demonstrate skills in descriptive and persuasive writing through various essays.

Advanced Placement (AP) English Literature & Composition
An AP exam fee will be incurred. Prerequisite: AP English Language & Composition
This course is designed for students who want a demanding college level course and who plan to take the corresponding exam at the end of the course year. The course focuses on American literature from the colonial to the post modernist periods. Literary periods such as Puritanism, transcendentalism, realism and existentialism are examined through literary analysis, expository writing, and discussion. Above-average writing skills and self discipline for independent study are necessary for success in this course.

English IV
This course reviews and builds upon the basics of grammar, composition, public speaking, and research. The major focus of the class is a survey of British history and literature from its beginnings to the present. An extended paper based on research is a major component.

SCIENCE

Physical Science
Physical science is a laboratory science course that explores motion, force, heat, electricity, waves, sound, matter and energy.

Honors Physical Science
This course is intended as an honors first level science course that will explore the relationship between matter and energy with an emphasis on everyday application of physical laws. The course of study includes the following: force, motion, energy, chemical and physical changes involving matter, waves of light and sound, electricity, and magnetism.The process of observation, hypothesis, testing and refinement/application of ideas will be incorporated within the course. Emphasis will be placed on critical thinking and problem solving (written and oral).

Chemistry
Prerequisites: Physical Science and Algebra I or Integrated Math I
Chemistry is a laboratory science course in which students investigate the composition of matter and the physical and chemical changes it undergoes. Students use science process skills to study the fundamental structure of atoms, the way atoms combine to form compounds, and the interactions between matter and energy.

Honors Chemistry
Prerequisites: Honors Physical Science and Honors Integrated Math I
Chemistry is a laboratory science course in which students investigate the composition of matter and the physical and chemical changes it undergoes. Students use science process skills to study the fundamental structure of atoms, the way atoms combine to form compounds, and the interactions between matter and energy.

Biology
Prerequisite: Physical Science
Biology is a laboratory science course that investigates the relationship between structure and function from molecules to organisms and systems, the interdependence and interactions of biotic and abiotic components of the environment, and mechanisms that maintain continuity and lead to changes in populations over time.

Honors Biology
Prerequisites: Physical Science or PWC and Honors Chemistry
This course is an advanced version of Biology. Additionally, students will be expected to follow correct lab procedures and analyze results.

Advanced Placement (AP) Biology
Prerequisites: Honors Chemistry and Honors Biology; An AP exam fee will be incurred.
This course is designed to be the equivalent of a two semester introductory college course in Biology. The course is organized around the underlying four big ideas which encompass the core scientific principle theories and processes governing living and biological systems. The four big ideas are: Evolution, Cellular processes (energy transfer), Genetics (information transfer), and Interactions. The course will prepare students for the AP Biology exam.

SOCIAL STUDIES

World History & Geography
Students will study the rise of the nation state in Europe, the French Revolution, and the economic and political roots of the modern world. They will examine the origins and consequences of the Industrial Revolution, nineteenth century political reform in Western Europe, and imperialism in Africa, Asia, and South America. They will explain the causes and consequences of the great military and economic events of the past century, including the World Wars, the Great Depression, the Cold War, and the Russian and Chinese Revolutions. Finally, students will study the rise of nationalism and the continuing persistence of political, ethnic, and religious conflict in many parts of the world. Relevant Tennessee connections will be part of the curriculum, as well as appropriate primary source documents. Students will explore geographic influences on history, with attention given to political boundaries that developed with the evolution of nations from 1750 to the present and the subsequent human geographic issues that dominate the global community. Additionally, students will learn to read and understand maps to better understand how geography impacts World History.

Advanced Placement (AP) World History
An AP exam fee will be incurred.
The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence. The course builds on an understanding of cultural,

institutional, and technological precedents that, along with geography, set the human stage. Periodization, explicitly discussed, forms an organizing principle for dealing with change and continuity throughout the course. Specific themes provide further organization to the course, along with the consistent attention to contacts among societies that form the core of world history as a field of study.

Advanced Placement (AP) European History
An AP exam fee will be incurred.
AP European History is designed to be the equivalent of a two-semester introductory college or university European history course. In AP European History students investigate significant events, individuals, developments, and processes in four historical periods from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources, developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course also provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places.

SDC United States History and Geography: Post-Reconstruction to the Present
Students will examine the causes and consequences of the Industrial Revolution and America's growing role in world diplomatic relations, including the Spanish- American War and World War I. Students will study the goals and accomplishments of the Progressive movement and the New Deal. Students will also learn about the various factors that led to America's entry into World War II, as well as its consequences for American life. Students will explore the causes and course of the Cold War. Students will study the important social, cultural, economic, and political changes resulting from the Civil Rights Movement, the Cold War, and recent events and trends that have shaped modern day America. Additionally, students will learn the causes and consequences of contemporary issues impacting their world today. Students will continue to use skills for historical and geographical analysis as they examine American history since Reconstruction with special attention to Tennessee connections in history, geography, politics, and people. Students will continue to learn fundamental concepts in civics, economics, and geography within the context of United States history. The reading of primary source documents is a key feature of United States history standards. Finally, students will focus on current human and physical geographic issues important in contemporary America and the global society. Students will be given a College Challenge Exam at the end of the semester to determine if they will receive a college credit for this course. Students must earn at least an 80 on the test to receive the college credit. Students who pass the course will meet the graduation requirement.

Advanced Placement (AP) US History
An AP exam fee will be incurred.
The AP U.S. History course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and the development of students' abilities to think conceptually about U.S. history from approximately 1491 to the present. Seven themes of equal importance – American and National Identity; Migration and Settlement; Politics and Power; Work, Exchange, and Technology; America in the World; Geography and the Environment; and Culture and Society – provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places.

Economics and US Government
Economics provides the student an opportunity to study the modern economic society, inflation, unemployment, banking, consumer and corporate behavior, and pricing of goods and services. US Government is an introductory course covering the essential institutions of federal, state, and local governments. Additional facts of decision-making in public policy are explored.

Advanced Placement (AP) Government & Politics
An AP exam fee will be incurred.
This course provides a college-level introduction to key political concepts, institutions, policies, and behaviors of the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other important texts. Students will learn to read and interpret data, make comparisons and applications, and develop evidence-based arguments. A political science research or applied civics project is required.

Contemporary Issues
This course is designed to explore current local, state, national, and international events. The course will also include various topics of contemporary interests and projects.

Honors Humanities
This course is intended as an introduction to the different disciplines and philosophical ideas that worked together over the course of time to create Western Civilization and thought. Students will analyze and discuss literary texts, visual arts, classical musical pieces, and historical documents to determine how Western thought was created, and they will discuss how it has changed since its

foundation.

VITAL Personal Finance
Personal Finance will assist students in navigating the financial decisions they will be making in the future. This course seeks to provide a hands-on approach to teaching financial management so that the student is prepared to succeed financially after high school.

FOREIGN LANGUAGE

Spanish I
This course focuses on the languages and cultures of Spanish-speaking peoples, while undergirding basic English grammar and usage. This course is designed to emphasize the four basic skills of Spanish literacy: reading, writing, listening, and speaking. The course material is cross-curricular to other core courses such as math, history, geography, and physical and social sciences. A basic departmental Comprehensive Literacy Evaluation of Proficiency (CLEP) test is required upon completion of this course.

Spanish II
Prerequisite: Spanish I
This course continues to develop the skills introduced in Spanish I. A broader emphasis is placed on culture and more advanced grammatical structures alongside the written comprehension and spoken interaction of the language. The course material is cross-curricular to other core courses such as art, music, history, geography, and physical and social sciences. A novice departmental Comprehensive Literacy Evaluation of Proficiency (CLEP) test is required upon completion of this course.

FINE ARTS & WELLNESS

Concert Band
Fall Term: This course is designed to develop proficiency in musical performance, an understanding of the art of music, and an appreciation of the creative and intrinsic values of music as a lifelong pursuit. Students will attend summer band camp, perform at fall athletic events, and represent UHS through participation in other marching activities. Following football season, the band will focus on concert music in preparation to participate in concerts and festivals. After school rehearsals during marching season are required.
Spring Term: Continued training and activities to develop proficiency in musical performance, an understanding of the art of music, and an appreciation of the creative and intrinsic values of music as a lifelong pursuit. Students will be involved in continued focus on concert performances in preparation for spring concert competitions as well as other public performances.

General Music
This course provides students with an understanding of music and its importance in their lives. Course content focuses on how various styles of music apply musical elements to create an expressive or aesthetic impact. Instruction may include music theory, music history, and other studies in music.

Instrumental Music I
This course will teach students the processes of notating and performing modern and career applicable music, commonly found in the music industry. Students will learn how to use their instrument (voice, guitar, winds, percussion, etc.) to perform in the various musical styles of popular culture. They will learn the basic skills required to competently rehearse and perform in commercial music settings. These skills include music theory and musical aural skills. Prerequisite: Must be concurrently enrolled in an ensemble music course as well.

Music Theory
This course is for students who wish to gain a better understanding of music and how music works. Music Theory will be taught through the learning of scale patterns, chords, melody, harmony, ear training, composition, and much more. This class will incorporate music examples from various periods in history, as well as music in today's society. Students will have several opportunities to engage themselves creatively throughout the year through composition, group performance, etc.

Vocal Music I
Students will study proper vocal technique and choral singing, music theory and history as well as participating in a minimum of two public performances throughout the year. In Concert Choir students will learn sight-singing skills, aural-skills, and other fundamentals of music and music performance.

Vocal Music II
Prerequisite: This is an audition only class and students must have teacher's approval to enroll.
Students will study proper vocal technique and choral singing, music theory and history as well as participating in a minimum of 4 public performances throughout the year. In Select Choir students will be auditioning for music festivals, such as Epcot Center's Candlelight Processional. Prerequisite: this is an audition only class and students must have teacher's approval to enroll.

Drama I
Students will be introduced to the basic terminology used in the theater as well as the exploration of developing voice, diction, articulation, and voice projection. Acting skills will be enhanced along with the student's level of understanding in costume design, makeup and hairstyles, lights and sound as well as a basic introduction to building a set and set design.

Art I
Students will be introduced to the basic elements and principles of art through the exploration of simple techniques in a variety of media such as drawing, painting, sculpture, photography, computer, clay, and fiber.

Art II
This course offers more advanced instruction in the areas of drawing and painting. Continued emphasis will be placed on art appreciation and art history.

Lifetime Wellness
Lifetime Wellness is a lifelong process of positive lifestyle management that seeks to integrate the emotional, social, intellectual, and physical dimensions of self for a longer, more productive, and higher quality of life. The class involves physical activity and bookwork.

Physical Education
Physical Education is designed for students who enjoy physical fitness and athletic competition. Students' daily activities will consist of stretching, exercising, conditioning, and other physical activity.

Strength & Conditioning
Strength & Conditioning is a course designed to instill in students the lifelong benefits of physical fitness, athletic competition, and conditioning.

AGRICULTURE, FOOD & NATURAL RESOURCES

Agriscience is an introductory laboratory science course that prepares students for biology, subsequent science and agriculture courses, and postsecondary study. This course helps students understand the important role that agricultural science and technology serves in the 21st century. In addition, it serves as the first course for all programs of study in the Agriculture, Food and Natural Resources Cluster.

Small Animal Science is an applied course in animal science and care for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers anatomy and physiological systems of different groups of small animals, as well as careers, leadership, and history of the industry.

Large Animal Science is an applied course in veterinary and animal science for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers anatomy and physiological systems of different groups of large animals, as well as careers, leadership, and history of the industry.

Principles of Plant Science Hydroculture
Principles of Plant Science and Hydroculture focuses on essential knowledge and skills related to the science of plant growth. This course covers principles of plant health, growth, reproduction, and biotechnology, as well as fundamental principles of hydroponics and aquaponics. Upon completion of this course, proficient students will be prepared for more advanced coursework in horticulture science

Greenhouse Management
Greenhouse Management is an applied-knowledge course designed to prepare students to manage greenhouse operations. This course covers principles of greenhouse structures, plant health and growth, growing media, greenhouse crop selection and propagation, and management techniques. Upon completion of this course, proficient students will be equipped with the technical knowledge and skills needed to prepare for further education and careers in horticulture production.
Greenhouse Management is a dual credit course with statewide articulation.

ARCHITECTURE & CONSTRUCTION

Fundamentals of Construction is a foundational course in the Architecture & Construction cluster covering essential knowledge, skills, and concepts required for careers in construction. Upon completion of this course, proficient students will be able to describe various construction fields and outline the steps necessary to advance in specific construction careers. Students will be able to employ tools safely and interpret construction drawings to complete projects demonstrating proper measurement and application of mathematical concepts. Standards in this course also include an overview of the construction industry and an introduction to building systems and materials. Students will begin compiling artifacts for inclusion in their portfolios, which they will carry with them throughout the full sequence of courses in their selected program of study.

Structural Systems I prepares students for careers in residential and commercial carpentry. Upon completion of this course, proficient students will be able to demonstrate knowledge and skill in framing buildings. Students will be able to frame floors, walls, ceilings, roofs, and stairs while safely employing tools and interpreting construction drawings to complete projects. Emphasis is placed on demonstrating proper measurement and application of mathematical concepts. Standards in this course also include principles of the construction industry and business and project management. Students will continue compiling artifacts for inclusion in their portfolios, which they will carry with them throughout the full sequence of courses in this program of study.

Structural Systems II is an advanced-level course that builds on the introductory skills learned in the Fundamentals of Construction and Structural Systems I courses. This course will explore advanced framing, the physics of structural loads, and the coverings and finishes of structural systems. Upon completion of this course, proficient students will be able to install interior and exterior finishing, Throughout the course, students will interpret construction drawings to complete projects, implementing material estimating procedures and safe working practices. Standards in this course also expand on principles of the construction industry and delve deeper into business and project management strategies. Students will continue compiling artifacts for inclusion in their portfolios, which they will carry with them throughout the full sequence of courses in this program of study.

CERTIFIED NURSING ASSISTANT (CNA)

Health Science Education
Health Science Education includes a variety of standards necessary for competent health care workers. This course is an introduction to broad standards that serve as a foundation for health care occupations.

Anatomy and Physiology
Human anatomy and physiology functions are assessed. Descriptive results of abnormal physiology will be examined and clinical consequences will be evaluated. A working knowledge of medical terminology will be demonstrated.

Medical Therapeutics
Prerequisite: Health Science Education
This course provides knowledge and skills to maintain or change the health status of an individual over time.

Nursing Education
Prerequisites: Medical Therapeutics and Anatomy & Physiology
Corequisites: Must be at least 17 years old
Nursing Education is a capstone course designed to prepare students to pursue careers in the field of nursing. Upon completion of this course, a proficient student will be able to implement communication and interpersonal skills, maintain residents' rights and independence, provide care safely, prevent emergency situations, prevent infection through infection control, and perform the Students enrolled in this course who wish to pursue certification must spend a minimum of 60 hours in a clinical setting 30 hours must be spent in a long-term care facility, and the remainder can take place in any setting that employs certified nursing assistants. if students have logged 30 hours of classroom instruction and 30 hours of classroom clinical instruction, and if they have completed 60 hours of site-based clinical with at least 30 of those hours spent in a long-term care facility, then, they are eligible to take the certification examination as a Certified Nursing Assistant (CNA).

DISTRIBUTION & LOGISTICS

Foundations of Transportation, Distribution, and Logistics
Foundations of Distribution & Logistics exposes students to careers and businesses involved in the planning, management, and movement of people, materials, and products by road, air, rail, and water. As an introduction to this important and globally evolving

field, this course covers the basic principles of logistics, reviews the history and development of distribution networks, and examines how they function within the dynamics of the supply chain. Upon completion of this course, proficient students will explore career options; demonstrate an understanding of the historical, current, and future significance of the distribution and logistics industries; and plan for the effective and efficient flow of goods and services.

Distribution and Logistics I
Prepares students for entry into the warehouse and distribution career field. Course content emphasizes a deep understanding of the dynamics of distribution and logistics operations, the warehousing skills needed for the tracking and managing of inventory, and the problem-solving skills used by logisticians in today's complex business environments. Upon completion of this course, a proficient student will have a thorough understanding of safety, tools, equipment, operations, processes, customer fulfillment, product lifecycle, future trends, and regulatory issues in the industry.

Distribution and Logistics II Management
Management prepares students for a capstone learning experience in logistics, planning, and management systems. A range of business tasks will be undertaken to support the operation of supply chain processes including coordinating and controlling the order cycle and associated information systems. Through exposure to crucial business activities such as project management, analyzing logistical problems, and producing new solutions, students will acquire advanced skills related to business professionalism, ethics, policies, and communication. Upon completion of this course, a proficient student will be prepared for further education and careers in the distribution and logistics industry.

HEALTH SCIENCE

Health Science Education
Health Science Education includes a variety of standards necessary for competent health care workers. This course is an introduction to broad standards that serve as a foundation for health care occupations.

Anatomy & Physiology
Human anatomy and physiology functions are assessed. Descriptive results of abnormal physiology will be examined and clinical consequences will be evaluated. A working knowledge of medical terminology will be demonstrated.

Diagnostic Medicine
Prerequisite: Successful completion of two health science courses
Diagnostic medicine creates a picture of an individual's health status at a single point in time.

Emergency Medical Service (EMS)
EMS is designed for students interested in a career in prehospital or emergency patient care.

Clinical Internship
Students may choose to complete a clinical internship after completing two or more health science classes. Internships will be completed in a hospital, nursing home, rehab center, or other health care facility.

HUMAN SERVICES

Introduction to Human Studies
This is a foundational course for students interested in becoming a public advocate, social worker, dietician, nutritionist, counselor, or community volunteer. The course covers the history of counseling, career investigation, stress management, mental illness, communication, and the counseling process. A portfolio will be created.

Nutrition across the Lifespan
This course covers human anatomy and physiological systems, nutrition requirements, as well as social, cultural, and other impacts on food preparation and integrity. A portfolio will be created.

Nutrition Science & Diet Therapy
Nutrition Science and Diet Therapy is an applied knowledge course in nutrition for students interested in the role of nutrition in health and disease. Upon completion of this course, proficient students will be able to develop a nutrition care plan as part of the overall health care process, use methods for analyzing the nutritional health of a community, and understand the relationship of diet

and nutrition to specific diseases. The course places emphasis on the role of diet as a contributor to disease and its role in the prevention and treatment of disease.

JROTC

Army Junior Reserve Officer Training Corps (JROTC)
JROTC is a student-based class that enables students the opportunity to learn discipline, motivation, and commitment through leadership. We strive to improve each student's ability in all classes through discipline in JROTC. Our goal is to motivate students so they will develop, learn and improve in their core classes. The ultimate goal is to get all JROTC students to graduate high school, proficient in all classes, ready for college. Although this program is military funded, the goal is NOT to join the military after high school. It is to prepare students for life within their communities by attending college.

Work-Based Learning

Work-Based Learning
Work-Based Learning (WBL) is a capstone course intended to provide students with opportunities to apply the skills and knowledge learned in previous CTE Career Cluster and/or general education courses to a professional work environment.
Requirements to Participate
Students must meet the following minimum requirements to participate in WBL:

- Must be on track for graduation and in their junior/senior year;
- A minimum of a 2.5 grade point average **or** a minimum score of 18 on the ACT Composite;
- Completion of 2 - 4 credits in a CTE Focus Area or other Program of Study (POS); and
- Have a satisfactory record of attendance and behavior.