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### Important Scheduling Note

**Decisions on whether courses can be offered are dependent on student enrollment and teacher staffing. University High School reserves the right to cancel or eliminate courses for any given school year. If the administration decides to cancel a course due to low student enrollment or staffing issues, the student's alternate choice will be used. If that course is also not available, the student may be consulted to make a new selection. If the student cannot be reached, his/her administrator or counselor will make the choice.**

## **PROMISE SCHOLARSHIP INFORMATION**

The Promise Scholarship requirements are as follows:

An overall Grade Point Average of 3.0

A core\*\* Grade Point Average of 3.0

An ACT composite score no lower than a 22, with no sub score lower than a 20 from one test date.

Or

An SAT score of 1020 with a Math score no lower than a 480 and a Verbal score no lower than 490 from one testing date.

Complete and file a FAFSA by March 1<sup>st</sup>.

\*\*The core subjects consist of English 9, English 10, English 11, English 12, History 9, History 10, History 11, Civics and all math and science courses. *These Core subjects do not include Support classes.*

\*Promise Scholarship requirements are subject to change annually. Historically, requirement changes have been made as late as the summer prior to the school year.

## **PROMOTION CREDIT REQUIREMENTS**

Students need to earn a minimum number of credits each year to be considered for upper class standing. Those requirements are:

**To be considered a sophomore (10<sup>th</sup> grade) a student must earn a minimum of five (5) credits in his/her freshman year (9<sup>th</sup> grade).**

**To be considered a junior (11<sup>th</sup> grade) a student must earn a minimum of ten (10) cumulative credits from his/her freshman (9<sup>th</sup> grade), and sophomore (10<sup>th</sup> grade) years.**

**To be considered a senior (12<sup>th</sup> grade), and a candidate for graduation a student must earn a minimum of fifteen (15) credits from his/her freshman (9<sup>th</sup> grade), sophomore (10<sup>th</sup> grade), and junior (11<sup>th</sup> grade) years.**

One half credit is awarded for each semester of successfully completed work. Two semesters of successfully completed work equals one full credit. An earned letter grade of "D" or better is considered a passing mark.

## HONORS/AP COURSES WAIVER PROCESS

**Honors** level courses are intended for students who are motivated to accept greater challenge through more extensive studies and who can master the skills at an accelerated rate in any given Core subject such as English, Math, Science, and Social Studies.



The **Advanced Placement (AP)** program offers college-level courses to high school students. Colleges often grant placement and course credit to students who obtain high scores on the end-of-course AP examinations. Students enrolling in AP courses should expect rigorous and challenging college-level course work. **Students enrolled in AP courses are required to take the respective AP exams at the conclusion of the course** (currently \$91 per exam). The AP Seminar course is approximately \$139.00. UHS offers a variety of AP courses in each of the core content areas.

Students are responsible for determining whether or not the colleges to which they are applying accept Advanced Placement credit.

Please refer to the following website for additional AP information:

**<https://apstudent.collegeboard.org/home>**

### **Waiver Process:**

There is a waiver request process in place at UHS.

The waiver process is used in the following circumstances:

- a. Parent/student requests consideration for a class not recommended by the student's teacher (including Honors/AP placement).
- b. Parent/student wishes to take classes concurrently that are usually sequential (prerequisites will be considered).
- c. Parent/student requests placement in a class outside the traditional sequence.

Forms to initiate a waiver request are available from the UHS guidance office or the UHS front office. Waivers require a meeting with parent/guardian, student, and UHS waiver committee. A determination is made as to whether the waiver will be approved or declined after the meeting is held.

# WEST VIRGINIA GRADUATION REQUIREMENTS

## 5.4.a. Adolescent Education Programming (Grades 9-12)

<b>Chart IV: Foundations for High-Quality Adolescent Education Programming (Grades 9-12)</b> <b>24 credits required: 18 prescribed and 6 personalized</b>	
<p>Chart IV Adolescent Education Programming (9-10, 11-12) Graduation Requirements            Graduation requirements are effective for all students enrolled in school year 2014-15, and thereafter or as otherwise specified. Courses needed for graduation require mastery of approved content standards and objectives. Students should consult with their chosen postsecondary educational program when choosing optional upper-level courses. Students who do not demonstrate mastery of the approved content standards and objectives shall be provided extra assistance and time through personalized learning and support.</p>	
<b>Graduation Requirements (18 prescribed)</b>	
<b>English Language Arts*</b>	<p><b>4 credits</b>            English 9            English 10            English 11            English 12 or English 12 CR or Transition English Language Arts for Seniors*            An AP® English course may be substituted for any of the above courses.</p>
<b>Mathematics*</b>	<p><b>4 credits<sup>1</sup></b>            Math I            Math II            Math III STEM, or Math III LA or Math III TR            Math IV or Math IV TR or Transition Mathematics for Seniors* or any other fourth course option            An AP® Mathematics course may be substituted for an equivalent course or any fourth course option.</p>
<b>Science*</b>	<p><b>3 credits</b>            Physical Science (Grade 9)            Biology or Conceptual Biology or AP® Biology (Grade 10)            One additional lab science course or AP® science course (Chart V)</p>
<b>Social Studies*</b>	<p><b>4 credits</b>            World Studies (Grade 9) or an AP® Social Studies course            United States Studies (Grade 10) or an AP® Social Studies course            Contemporary Studies or an AP® Social Studies course            Civics for the Next Generation or AP® Government and Politics.</p>
<b>Physical Education*</b>	<p><b>1 credit</b>            Physical Education 9-12 (WV Education Information System [hereinafter WVEIS course 6609]). At least 50 percent of class time for physical education should be spent in moderate to vigorous-intensity physical activity.</p>
<b>Health*</b>	<p><b>1 credit</b>            Health 9-12 (WVEIS course 6909)</p>
<b>The Arts*</b>	<p><b>1 credit</b></p>

## Graduation Requirements (6 personalized)

### Personalized Education Plan

#### 4 credits

Each student's PEP will identify course work for the four (4) credits that will lead directly to placement in entry-level, credit-bearing academic college courses, an industry-recognized certificate or license, or workforce training programs. Best practices encourage students to take at least 1 AP® and/or AC course with corresponding examination, a fourth Science credit, and 2 credits in one World Language, and/or four credits cumulating in acquisition of industry and recognized Career and Technical Education (hereinafter CTE) credential focused on career aspirations.

### Career and Technical Education (CTE)\*

The four credits taken in a career and technical concentration must be consistent with those identified for WVDE approved career and technical programs of study. (Refer to W. Va. 126CSR44M, Policy 2520.13: Common Core Content Standards for Career and Technical Education in West Virginia Schools.) Each career and technical concentration in a school shall provide students the opportunity to obtain an industry recognized credential as part of the instructional program when applicable.

School systems wishing to offer a concentration outside of the state approved CTE concentrations, must have four related courses approved by the local board of education.

80 percent of students in grades 9-10 must have access to at least one career and technical foundation course. One foundation course must be offered that teaches parenting skills.

30 percent of students in grades 11-12 must have access to four units in a career and technical concentration and two career and technical electives.

An additional 30 percent of students in grades 11-12 must have access to two units in a career and technical concentration.

#### Approved WV Career Clusters

Agriculture, Food and Natural Resources

Architecture and Construction

Arts, A/V Technology and Communication

Business Management and Administration

Education and Training

Finance

Government and Public Administration

Health Sciences

Hospitality and Tourism

Human Services

Information Technology

Law, Public Safety, Correction and Security

Manufacturing

Marketing

Science, Technology, Engineering and Mathematics

Transportation, Distribution and Logistics

Students with disabilities may earn 4 credits in Community Readiness Training recommended through an IEP Team as a personalized concentration.

<b>World Languages</b>	Communicating in a global society requires students to apply appropriate language strategies through embedded opportunities to explore and gain an understanding of the world around them. Undergraduate admission to West Virginia four-year colleges and universities include the completion of two units of the same world language.
<b>Electives</b>	<b>2 Credits</b> The remaining graduation requirements are to be electives. When choosing electives, students should consult with their chosen postsecondary educational program to make sure the electives are acceptable.
<b>Developmentally Appropriate Practices for Student Success and Career Readiness</b>	
<b>Career Development</b>	All students in grades 9-12 will be provided structured, on-going experiences for career exploration, decision making, and career preparation. Career development shall be an integrated approach, engaging all staff in assisting students during the school day to explore the 16 career clusters. Career exploration will include opportunities for students to discover their interests in emerging careers including STEM careers in science, oil & gas, technology, engineering, and math. The school will engage student advisors in utilizing each student's career awareness activities to develop the PEP. Advisors will assist students and their parents to utilize their various interests, learning styles, career and academic assessments to guide educational planning and career choices. Career exploration activities will be documented in each student's personalized career portfolios.
<b>Comprehensive School Counseling Program</b>	A standards-focused, integrated, comprehensive and developmental school counseling program will assist students with the acquisition of school success and career readiness skills to prepare for high school and postsecondary success. School counselors will work collaboratively with other school staff to assist students with academic and postsecondary planning that leads to seamless transitions to the identified postsecondary options. Refer to WVBE Policy 2315 to ensure alignment with policy requirements.
<b>Student Advocate/Advisor/Mentor</b>	High schools will implement an advisory system that provides students with meaningful supportive relationships and maximizes each student's personalized learning experience. An adult advocate, advisor, or mentor will take an interest in each student's successful learning, goal setting, career planning and personal growth. The advisory system shall be evidence based and systemically integrate school success and career readiness skills (e.g., work ethic, communication skills, team work, collaborative skills, personal responsibility, social skills, organization, financial literacy, and study skills).
<b>Physical Activity</b>	High schools should recognize that healthy lifestyles and academic success are tightly interwoven. Therefore, schools should promote wellness activities that extend beyond the course requirements for physical education and health. This may be accomplished through programs that focus on skill development, sportsmanship and teamwork. Opportunities should be provided for 30 minutes of moderate to vigorous integrated physical activity daily to keep high school students physically active throughout the school year. Wellness education should target the widespread behaviors that undermine the health and resulting capacity for personal success during adolescence.

<b>Technology</b>	Students in grades 9-12 will be provided regular opportunities within the context of normal course work to master the standards set forth in WVBE Policy 2520.14. The infrastructure of classrooms should infuse technology and pedagogy to transform instruction, thus leading to improved student engagement. It is recommended that all students complete an online learning experience during grades 9-12. Students must be provided opportunities for advanced technology applications.
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## 2016/2017 Career and Technical Education Concentrations and Specializations:

- Agricultural, Food and natural Resources Cluster
  - Agribusiness Systems
    - 0101- Intro to Agriculture, Food & Natural Resources
    - 0102- The Science of Agriculture
    - 0134- Agricultural Experience Program
    - One of the Following:
      - 0112- Fundamentals of Agriculture Mechanics
      - 0140- Animal Production and Management
      - 0212- Horticulture
      - 0200- Natural Resources Management
  - Plant Systems
    - 0101- Intro to Agriculture, Food & Natural Resources
    - 0212- Horticulture
    - 0134- Agricultural Experience Program
    - 0214- Greenhouse
- Arts, A/V Technology and Communications Cluster
  - Applied Design
    - 0961- Applied Design: Fashion
    - 1445- Management and Entrepreneurship
    - 0941- Applied Design: Housing and Interior Design
    - 0407- Fashion Marketing
- Business Management and Administration Cluster
  - Management and Administrative Support
    - Required Course:
      - 1439- Business and Marketing Essentials
    - Select Three Specialization Courses:
      - 1401- Accounting Principles I
      - 1403 -Accounting Principles II
      - 1411- Business Computer Applications I (MS WORD and MS POWERPOINT)
      - 1413 -Business Computer Applications II (MS EXCEL and MS ACCESS)
      - 0442 –Marketing Principles
      - 1409 Business Communications
      - 1451 Personal Finance
  - Accounting
    - Required Courses:
      - 1401- Accounting Principles I
      - 1403- Accounting Principles II
    - Select Two Specialization Courses:
      - 0422 Marketing Principles
      - 1439 Business and Marketing Essentials
      - 1417 Business Law
      - 1450 Personal Finance
      - 1411 Business Computer Applications I (MS WORD and MS POWERPOINT)
      - 1413 Business Computer Applications II (MS EXCEL and MS ACCESS)
- Marketing Cluster
  - Marketing Management
    - 0422- Marketing Principles
    - 0425- Marketing Applications
    - 1439-Business and Marketing Essentials
  - Select One Specialization Course:
    - 0407- Fashion Marketing
    - 0434- Sport Rec Marketing



- 0437-Hospitality and Tourism Marketing
- Science, technology, Engineering and Mathematics Cluster
  - Science, Technology, Engineering & Math
    - 2421- Communications Systems
    - 2424- Construction Systems
    - 2442- Manufacturing Systems
    - 2448- Transportation Systems
  - PLTW (Project Lead The Way) – Pre-Engineering
    - 2461- Introduction to Engineering Design
    - 2463- Principles of Engineering
    - Select two Specializations
      - 2466- Civil Engineering and Architecture
      - 2462- Digital Electronics
      - 2467 -Environmental Sustainability
      - 2464 -Engineering Design and Development

# AGRICULTURAL SCIENCE

## **INTRODUCTION TO AGRICULTURE, FOOD & NATURAL RESOURCES (0101)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This is a core course for the Agriculture, Food and Natural Resources Career Cluster that builds a knowledge base and technical skills in all aspects of the industry. Learners will be exposed to a broad range of agriculture, food and natural resources careers. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FFA. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

## **THE SCIENCE OF AGRICULTURE (0102)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This course focuses on the basic scientific principles and processes related to the production of plants and animals for the food and fiber systems. Topics of instruction include basic understanding of the livestock/poultry industry and its various components, career opportunities, soil science, crop science/agronomy, weed science, basic agricultural mechanics and related industry careers, environmental stewardship, entrepreneurship, and leadership/personal development. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FFA. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

## **FUNDAMENTALS OF AGRICULTURE MECHANICS (0112)**

Prerequisite: None

Grade Level: 10, 11, 12

This course introduces the knowledge and skills for applying the physical science principles and principles of operation and maintenance to mechanical equipment, welding and fabrication, structures, plumbing, electrical wiring, power utilization, entrepreneurship. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FFA. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

## **ANIMAL PRODUCTION AND MANAGEMENT (0140)**

Prerequisites: None

Grade Level: 10, 11, 12

This course is designed to be a core course in the Animal Systems concentration. The course will cover topics on animal restraint, animal management techniques, animal health and welfare, balancing rations, pedigree analysis, and entrepreneurship. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FFA. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

## **NATURAL RESOURCES MANAGEMENT (0200)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This specialization course covers topics on soil and water conservation, basic wildlife management, environmental law and regulations, basic forestry, and land management. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FFA. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

## **HORTICULTURE (0212)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This course provides instruction on the broad field of horticulture with emphasis on the scientific and technical knowledge for a career in horticulture. Topics in this course include plant growth and development, plant nutrition, media selection, basic plant identification, pest management, chemical disposal, customer relations, career opportunities, leadership development and entrepreneurial skills. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FFA. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

## **GREENHOUSE PRODUCTION AND MANAGEMENT (0214)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This specialization course covers instruction that expands scientific knowledge and skills to include more advanced scientific computations and communication skills needed in the horticulture industry. Topics include greenhouse plant production and management, bedding plant production, watering systems light effects, career planning, leadership development and entrepreneurial skills. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FFA. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

## **AGRICULTURAL EXPERIENCE PROGRAM (0134)**

Prerequisite: FFA Member and enrolled in any Agricultural course.

Grade Level: 9, 10, 11, 12

The Supervised Agricultural Experience program is a hands on, student planned way for students to apply skills learned in the classroom to real world agricultural experiences. With help from their agricultural teachers, students develop an SAE project based on one or more SAE categories: **Entrepreneurship**- Own and operate an agricultural business (e.g. a lawn care service, a pay-to-fish operation, holiday poinsettia production and sales.); **Placement**- Get a job or internship on a farm or ranch, at an agriculture-based business, or in a school or factory laboratory.); **Research and Experimentation**- Plan and conduct a scientific experiment. (e.g. determine whether the phases of the moon affect plant growth, or test and determine the efficacy of different welding methods.); **Exploratory**- Explore careers in agriculture by attending an agriculture career fair, or creating a report or documentary on the work of a veterinarian. Class is Pass/Fail only.

**NOTE:** Robert C. Beach Vocational Agriculture Credit- Only students with a declared entry or skilled level major in vocational agriculture (i.e. those whose PEP plan indicates entry directly into the workforce upon graduation from high school) will, upon their successful completion of a unit of credit in an approved vocational agriculture course above grade 10, be exempt from the third required unit of science credit required for graduation. All other students, including those with declared majors in vocational agriculture at the professional level who anticipate two-year or four- year college education, are required to take three units of science as defined by this policy and Policy 2510 for graduation.

## AP CAPSTONE™ Program

AP Capstone™ is an innovative diploma program from the College Board that equips students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges. AP Capstone is built on the foundation of two AP courses: **AP Seminar** and **AP Research**. They are designed to complement and enhance the in-depth, discipline-specific study experienced in other AP courses. In AP Seminar, students investigate real-world issues from multiple perspectives, gathering and analyzing information from various sources in order to develop credible and valid evidence-based arguments.

In AP Research, students cultivate the skills and discipline necessary to conduct independent research in order to produce and defend a scholarly academic thesis (course to be offered in the 2016-2017 school year).

Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing will receive the AP Capstone Diploma. Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams will receive the AP Seminar and Research Certificate. AP Seminar may also be taken as a stand-alone option.



### AP SEMINAR (4125)

Prerequisite: Honors English highly recommended and core teacher signature required.

Grade Level: 10, 11, 12

**AP Seminar** is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research-based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. **Students are required to take the AP exam associated with this course.**



### AP RESEARCH (4126)

Prerequisite: Students must have successfully completed the AP Seminar course.

Grade Level: 11, 12

**AP Research** allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of approximately 4000–5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense. **Students are required to take the AP exam associated with this course.**

## ART

### ART APPRECIATION (3231)

Prerequisite: None

Grade Level: 9, 10, 11, 12

The purposes of this course are to identify, discuss, and compare cultural and multicultural influences on the arts. Critical analyses in written and oral forms will be developed.

### ART 1 (3211)

Prerequisite: None

Grade Level: 9, 10, 11, 12

Emphasis will be placed on the elements and principles of art. Experiences in producing two-dimensional and three-dimensional artworks using a variety of media, techniques, and processes will be provided. Critical thinking skills will be developed through analysis of works both orally and in written form. An understanding of the arts in relation to culture, history, other disciplines, and careers will be emphasized.

**ART 2 (3212)**

Prerequisite: Successful completion of Art 1

*(Note: A waiver may be considered with extraordinary portfolios submitted during the course selection process.)*

Grade Level: 10, 11, 12

This course will extend the students' artistic skills, critical thinking skills and concept development through concrete experiences creating, reflecting and discussing artworks. The exploration of the arts, both two-dimensional and three-dimensional, in the context of cultural and historical parameters will be included.

**ART 3 (3213)**

Prerequisite: Successful completion of Art 2.

*(Note: A waiver may be considered with extraordinary portfolios submitted during the course selection process.)*

Grade level: 10, 11, 12

Art 3 builds on previous skills with a more in-depth approach. It is designed for the student who has a high interest in art, who displays good craftsmanship, and who exhibits skills in the use of different media.

**ART 4 (3214)**

Prerequisite: Successful completion of Art 3. Teacher's signature required.

Grade Level: 11, 12

*(Note: 10<sup>th</sup> grade students will be considered with extraordinary portfolios submitted during the course selection process.)*

Art 4 students will develop a more in-depth knowledge of art and art making. It offers a more advanced approach of exploring media, techniques, and processes. Analytical and critical thinking skills are used to develop and clarify a personal style of art. **Seniors** wishing to minor or major in art in college who do not have prerequisite to enter Art 4, but wish to develop a college entry portfolio may petition to take the class through the waiver process.

**DRAWING TECHNIQUES (3332)**

Prerequisite: Art 1

*Note: A waiver may be considered with extraordinary portfolios submitted during the course selection process.)*

Grade Level: 10, 11, 12

Emphasis is placed on developing observation skills by exploring a number of drawing techniques and media. Creative approaches to drawing and compositions are combined through the use of imagination and personal interpretation of the subject matter. This helps develop creative thinking skills as well as analytical and critiquing skills.

**GRAPHIC DESIGN (3350)**

Prerequisite: Art 1

*(Note: A waiver may be considered with extraordinary portfolios submitted during the course selection process.)*

Grade Level: 10, 11, 12

Graphic projects, advertisements, posters, logos, packaging design, programs, and brochures are the core of this entry level class. Students will develop an awareness of graphic design as a career.

**PHOTOGRAPHY (3343)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

Students will learn basic techniques in digital photography. First semester emphasis is placed on equipment, lighting, and composition in photographs. Second semester students build on skills by editing digital images using Photoshop. Art projects incorporating photo images are part of this Art credit. A digital camera and home photo printing capabilities are strongly recommended.

**INTRODUCTION TO CLAY AND CRAFT (3307)**

Prerequisite: Teacher Signature Required

Grade Level: 10, 11, 12

This course will serve as an introduction to basic hand building techniques of clay construction including coil, slab, and pinch. Throwing basic vessel forms on the pottery wheel will be presented and explored. Historical context of clay as cultural expression and archeological significance will be addressed.

Note: Some kick wheels require a degree of physical leg strength.

## CLAY AND CRAFT 2 (3308)

Prerequisite: Teacher signature required

Grade Level: 11, 12

This is an opportunity to build upon the basic skills learned in Introduction to Clay and Craft. Students must be self-motivated and disciplined to jointly set out personal clay project goals with teacher and to adhere to agreed upon course work. Critiques and work review will be scheduled in the morning, during advisory, at lunch, during teachers plan or after school as needed – must take place six times during the semester.

## AP STUDIO ART (2-D, Drawing and 3-D)

AP art courses are designed to be equivalent of a first year college art class. Students have summer assignments with due dates that must be met. These courses are designed to allow students to help structure the direction of their visual exploration based upon personal medium and subject interests. Digital portfolio of 24 works must be submitted in April for review to pass class. These classes are designed for those who wish to major or minor in art in college or who are interested in pursuing advanced methodologies.

## AP STUDIO ART - DRAWING (3222)



Prerequisite: Teacher signature required

Grade Level: 11, 12

AP Studio Art Drawing is a course that deals with basic painting and drawing. The focus is applied on the composition of the different lines, colors, and shapes of the painting instead of the design itself.

**Section I: Quality:** A student submits 5 actual artworks to the AP College Board that represent the student's quality of technique and their design concepts.

**Section II: Concentration:** A student submits 12 different slides that demonstrate the student's ability to paint and draw a variety of pieces that relate to one idea. These are arranged in a special order on slide coverings from College Board.

**Section III: Breadth:** A student submits 12 additional and different slides that demonstrate the student's ability to incorporate drawing techniques and issues that include drawing from observation, work with inverted or nonobjective forms, effective use of light and shade, line quality, surface manipulation, composition, various spatial systems, and expressive mark-making. **Students are required to take the AP exam associated with this course.**

## AP STUDIO ART 2-D (3223)



Prerequisites: Evaluation of Art work from previous years and/or portfolio review. Teacher signature required.

Grade Level: 11, 12

AP Studio Art 2D is an advanced placement course that is similar to AP Studio Art Drawing. It deals with dimensional applications such as graphic design, photography, weaving, and collage. In contrast to AP Studio Art Drawing, the focus is on the design itself instead of the composition of the artwork.

**Section I: Quality:** A student submits 5 actual artworks that represent the student's quality of designing pieces in 2D.

**Section II: Concentration:** A student submits 12 different slides that demonstrate the student's ability to make a variety of pieces in 2D that relate to one idea.

**Section III: Breadth:** A student submits 12 additional and different slides that demonstrate the student's ability to incorporate 2D Design principles that include unity/variety, balance, emphasis, contrast, rhythm, repetition, proportion /scale and figure-ground relationship. **Students are required to take the AP exam associated with this course.**

## AP STUDIO ART 3-D (3224)



Prerequisite: Teacher signature required

Grade level: 11, 12

AP Studio Art 3D is a three-dimensional advanced placement Studio Art course that holds many similarities to the AP Studio Art 2D course. The course deals with three-dimensional artistic applications such as metalworking, sculpture, model, and ceramics. Like AP Studio Art 2D, the focus of the work is on the design itself as opposed to its composition.

**Section I: Quality:** The actual work for this exam is three-dimensional and not flat.

**Section II: Concentration:** 12 different slides are submitted to demonstrate the student's ability to produce a variety of pieces that relate to a single idea.

**Section III: Breadth:** Eight different works are shown in 16 slides which are meant to demonstrate the student's ability to incorporate a variety of different 3D Design principles, including balance, emphasis, contrast, rhythm, repetition, proportion /scale, and figure/ground relationship. **Students are required to take the AP exam associated with this course.**

# BUSINESS

## **ACCOUNTING PRINCIPLES 1 (1401)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This course is designed to develop student understanding and skills in such areas as the basic principles, concepts, and practices of the accounting cycle. Journalizing, posting and analyzing of financial statements as well as banking and payroll procedures are included. The importance of ethics and confidentiality as well as an introduction to careers and types of business ownership are incorporated.

## **ACCOUNTING PRINCIPLES 2 (1403)**

Prerequisite: Accounting 1

Grade Level: 10, 11, 12

This course is designed to develop student understanding and skills in such areas as advanced accounting procedures and techniques utilizing both manual and computer-based accounting. There is a strong emphasis on problem solving, analysis and financial decision-making. Students study the advanced principles, concepts and practices of the accounting cycle and partnerships, corporations, cost accounting, inventory and tax accounting.

## **BUSINESS COMMUNICATIONS (1409)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This course is designed to develop student understanding and skills in such areas as the elements of introductory communications knowledge and skills necessary for a career in the business and marketing field. Skill sets include reading strategies, listening and observing techniques, along with oral, written, social, and career communications.

## **BUSINESS LAW (1417)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This area of study is designed to provide students with the knowledge and skills needed in business and related occupations. The program area focuses on the impact of law as it relates to business and individuals. Students will examine criminal and civil law with a concentration on consumer, contract, property, and employment law while assessing ethics as they relate to each. Students will utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.

## **BUSINESS COMPUTER APPLICATIONS 1 (1411)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This course is designed to develop student understanding and skills in such areas as Microsoft Word and Microsoft PowerPoint. This course prepares students for the Microsoft Office Word 2013 Microsoft Office Specialist Exam and for the Microsoft Office PowerPoint 2013 Microsoft Office Specialist Exam. Students utilize problem-solving techniques and participate in online and hands-on activities to develop an understanding of course concepts.

## **BUSINESS COMPUTER APPLICATIONS 2 (1413)**

Prerequisite: Successful completion of Business Computer Applications 1

Grade Level: 10, 11, 12

This online course with classroom teacher facilitation is designed to develop student understanding and skills in such areas as Microsoft Excel and Microsoft Access. This course prepares students for the Microsoft Office Excel 2013 Microsoft Office Specialist Exam and for the Microsoft Office Access 2013 Office Specialist Exam. Students utilize problem-solving techniques and participate in online and hands-on activities to develop an understanding of course concepts.

## **PERSONAL FINANCE (1451)**

Prerequisite: None

Grade Levels: 9, 10, 11, 12

This course is designed to develop student understanding and skills in such areas as money management, budgeting, financial goal attainment, credit, insurance, investments and consumer rights and responsibilities. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.



# ENGLISH/LANGUAGE ARTS

## **ENGLISH LANGUAGE ARTS 9 (4009)**

Prerequisite: None

Grade Level: 9

English 9 will focus on the effective use of written language in educational and occupational endeavors and interpersonal communication. A broad array of literature and informational texts will also be covered.

## **HONORS ENGLISH LANGUAGE ARTS 9 (4009H)**

Prerequisite: Teacher Recommendation

Grade Level: 9

An accelerated program that covers all the same concepts as English 9 with added emphasis on in-depth evaluation of various forms of literature, analytical thinking, and critical and creative thinking activities.

## **ENGLISH LANGUAGE ARTS 10 (4010)**

Prerequisite: None

Grade Level: 10

English 10 will focus on the use of written language for educational, occupational, and personal endeavors. Preparation will include critiquing oral presentations and using speaking and listening while reading and writing. A broadened array of literature will encourage an increased appreciation for the power of the spoken and written word.

## **HONORS ENGLISH LANGUAGE ARTS 10 (4010H)**

Prerequisite: Teacher Recommendation

Grade Level: 10

Honors English 10 is an integrated study of reading, writing, speaking, listening, and thinking skills with emphasis upon Standard English usage and mechanics: sentence, paragraph, and essay/ composition, and various types of literature.

## **ENGLISH LANGUAGE ARTS 11 (4011)**

Prerequisite: None

Grade Level: 11

English 11 provides an enhancement and refinement of fundamental literary and communication skills. The course is a literature-based study of reading, writing, speaking, listening, and thinking with emphasis upon paragraph and essay composition and American literature.

## **HONORS ENGLISH LANGUAGE ARTS 11 (4011H)**

Prerequisite: Teacher Recommendation

Grade Level: 11

Honors English 11 is a literature-based study of reading, writing, speaking, listening, and thinking with emphasis upon paragraph and essay composition and American literature. This course will be taught at an accelerated pace and the content will be much more rigorous than English 11. Students will be required to complete additional projects to accentuate the Honors piece of this course.



## **AP ENGLISH/LANGUAGE AND COMPOSITION (4041)**

Prerequisite: A/B in Honors English 10 and Teacher recommendation

Grade Level: 11

This course's primary focus is on rhetoric, argumentation, and critical reading of nonfiction literature—all in preparation for the AP exam in May. Its secondary focus is on the study of the modes of discourse as a means of learning, thinking, and communicating. Content standards and objectives for English/Language Arts 11 will be met. **Students are required to take the AP exam associated with this course.**

## **ENGLISH LANGUAGE ARTS 12 (4012)**

Prerequisite: None

Grade Level: 12

English 12 provides focus and polish in personal goals and academic proficiency. The expansion and appreciation of language and literature is the focus of the senior year. The course is a literature-based, integrated study of reading, writing, speaking, listening, and thinking skills with emphasis placed upon types of essay composition and British/American/World literature.



### **ENGLISH 12 CR (4014)**

Prerequisite: None

Grade Level: 12

English 12 CR is a rigorous course designed for students within approximately 4-5 points of the acceptance score for college admission into a credit-bearing entry level English course. Engagement in this rigorous course of study will assist those identified students in attaining acceptable admissions score for entrance into the credit-bearing freshman English course.

### **TRANSITON ENGLISH LANGUAGE 12**

Prerequisite: None

Grade Level: 12

This course is designed for students who have not met the WVGSA benchmark score that determines college and career readiness. Its purpose is to develop mastery of the skills necessary to meet or exceed benchmark.

### **HONORS ENGLISH LANGUAGE ARTS 12 (4012H)**

Prerequisite: Teacher Recommendation

Grade Level: 12

Honors English 12 is a literature based, integrated study of reading, writing, speaking, listening, and thinking skills. The lenses of British, American, and World Literatures will be used to generate a variety of written compositions, project based pieces and speaking opportunities. The pacing of the reading will be brisk and the ability to work independently a necessity.



### **AP ENGLISH/LITERATURE AND COMPOSITION (4042)**

Prerequisite: A/B in Honors English 11 or successful completion of AP English/Language Composition and Teacher recommendation

Grade Level: 12

This course emphasizes critical and analytical reading of a variety of poems, novels, plays, and short stories, both British and American, from the main cultural and historical periods. Students will use both written and oral methods to respond critically and analytically to the literature studies. An important goal of this course is to prepare the student for the Advanced Placement English Literature and Composition exam. Content standards and objectives for English/Language Arts 12 will be met. **Students are required to take the AP exam at the conclusion of the course.**

### **CREATIVE WRITING (4022)**

Prerequisite: A "C" or better in English is recommended

Grade Level: 10,11, 12

This course is for elective credit only (not for English credit). In this course students will explore the use of imagination and the resources of the English language to create various forms of personal and creative expression. Emphasis will be placed on both creating and sharing through the use of the writing process and appropriate technologies. This class requires extensive writing and is best suited for students interested in developing advanced writing skills. *Elective course only*

### **SCHOOL YEARBOOK 1 (4071)**

Prerequisite: Teacher recommendation

Grade Level: 9, 10, 11, 12

This course is designed to help students study the art and techniques of reporting timely events through the use of pictures and words. The first semester covers mass media in general with emphasis on broadcast news, news magazines, and newspapers. The second semester is devoted to yearbook journalism, including layout design, writing, and desktop publishing. Photography will be integral to both semesters. Completion of this course prepares the student to apply for a position on the yearbook staff. *Elective course only*

### **SCHOOL YEARBOOK 2 (4071)**

Prerequisite: Teacher recommendation

Grade levels: 10, 11, 12

This lab-based course is for students who wish to contribute their talents in publishing the school's yearbook. Students will receive instruction in interviewing, photography, marketing, writing design, and desktop publishing to enhance the yearbook, *The Little Monticola*. Working as a member of a team, staff members develop life skills in communication, leadership, time management, project management, problem solving, writing, photography, team building, conflict resolution, and public speaking. *Elective course only*

### **MYTHS, LEGENDS, AND FANTASTICAL LITERATURE (4139)**

Prerequisite: None

Grade Level: 10, 11, 12

In addition to Classical Greek and Roman mythology, a variety of other world mythologies and literatures will be covered. These will include Norse, Celtic, and Asian mythologies as well as the literature they have inspired. *Elective course only*

### **SPEECH/ ORAL COMMUNICATIONS (4076)**

Prerequisites: None

Grade Level: 9, 10, 11, 12

Speech is an elective which enhances the Reading/Language Arts curriculum. Oral communication is fundamental to all learning. By actively participating in a variety of speaking activities, students will gain the confidence and skills to overcome communication anxiety. A student who communicates well succeeds in social, economic, and academic environments. Effective communication provides readiness for the workplace and/or post-secondary education. *Elective course only*

## **FAMILY & CONSUMER SCIENCES**

### **APPLIED DESIGN: FASHION MERCHANDISING (0961)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This course is designed to help students learn about the many careers in the fashion industry. Students will be provided with the skills and practices that are required for the application of design elements and principles in fashion. Students study fabric construction and various sewing techniques. Students will construct a small sewing project as well as learn to knit or crochet.

### **APPLIED DESIGN: HOUSING AND INTERIOR DESIGN (0941)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This course is designed to develop skills in planning efficient and pleasant living environments as well as the career opportunities available in the Housing and Design market. Units of study include color schemes, principles of design, meeting housing needs, history of housing in America and reading and drawing floor plans as well as elevations. Students will complete floor plans using an online program.

### **LIFE CONNECTIONS (0901)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This course is designed to help students develop the competencies needed to assume various adult roles and to function effectively in those roles. Areas include: selecting a career, financial management, finding a place to live, developing a healthy life style, marriage and family relations, and parenting. This course helps students to develop the critical thinking skills needed for all aspects of independent living.

### **NUTRITION AND FOOD SCIENCE (0952)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

Students will study basic nutrients and the body's need and use of them. Individual nutritional needs will be studied. This course includes basic knowledge in nutrition and weight control for lifelong health. Selection and preparation of fruits, vegetables, breads, desserts, main courses and beverages are part of the lab class. This course gives students practical knowledge and skills in management of time, money, and energy which may be applied personally in the home or to a career.

### **PARENTING & STRONG FAMILIES (0903)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This course is designed to help students evaluate readiness for parenting while examining appropriate Parenting and Strong Families practices. Students will develop an awareness of societal issues affecting families and explore support systems. Students will use reasoning processes, individually and collaboratively, to take responsible action in families, workplaces, and communities. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.

## **FUNDAMENTALS OF HUMAN SERVICES (0928)**

Prerequisite: None

Grade Level: 10, 11, 12

This course is designed to describe fundamental principles of the helping professions within the Human Services career cluster. Students will synthesize the knowledge, skills, attitudes and practices required for careers addressing the social issues and concerns of individuals, families and communities. Topics include: the roles and functions of Human Service professionals; professional, legal, ethical and safety issues and policies; Human Services interventions such as effective communication skills, problem-solving techniques and wellness initiatives; issues relating to disadvantaging conditions experienced by recipients of Human Services; and diversity. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.

## **HEALTH/ PHYSICAL EDUCATION/DANCE**

### **HEALTH 10 (6909)**

Prerequisite: None

Grade Level: 10

This course is a comprehensive Health education program focusing on a positive approach to Health and overall wellness. It is aimed at assisting students to become knowledgeable of facts related to Health, wellness, and making positive decisions about their life now and in the future. Students will be engaged in activities examining their attitudes, habits, decisions, behaviors, and risks. Topics included are: skills for leading a healthy lifestyle, lifestyle diseases, preventing infectious diseases, self-esteem enrichment, physical fitness, nutrition, and weight management. In addition, students will examine high risk behaviors involving alcohol, illegal drugs, prescription drug abuse, and tobacco. There will also be a comprehensive reproduction, pregnancy, and development unit. The class will also address social issues related to students including responsible healthy relationships, bullying, and harassment. This course satisfies the Health credit required for graduation.

### **PHYSICAL EDUCATION 9 (6609F/6609M)**

Prerequisite: None

Grade Level: 9

This course emphasizes individual and dual sports, team sports, outdoor recreation, and lifetime or leisure activities toward the development of a healthy lifestyle. This course satisfies the physical education graduation credit requirement.

### **TEAM SPORTS (6757)**

Prerequisite: Successful completion of ninth grade Physical Education.

Grade Level: 10, 11, 12

This course is a Physical Education elective. Students will review skills and participate in sports which require a team (i.e. football, volleyball, basketball etc.). Students will be expected to change into appropriate PE clothes and tennis shoes each day, as this will be the main part of their grade. This class cannot be taken in lieu of PE 9, which is required for graduation.

### **LIFETIME FITNESS EDUCATION 1 (6733)**

Prerequisite: Successful completion of Physical Education

Grade Level: 10, 11, 12

This course is designed to help students learn the value and benefits of lifelong physical activity and how physical activity can and should be fun. Students will learn how to create an activity/fitness plan, set individual goals and assess their progress. This course will consist of two days of class work and three days of physical and/or sport related activities. Students will be expected to change into appropriate PE attire as part of their grade. This is an elective course and cannot be taken in place of the required ninth grade Physical Education course.

### **LIFETIME FITNESS EDUCATION 2 (6734)**

Prerequisite: Must have successfully completed Lifetime Fitness 1

Grade Level: 11,12

This class is a continuation of Lifetime Fitness 1. Students will continue to work with their personal fitness plan and physical activity concepts. Students will be expected to change into appropriate PE attire as part of their grade. Staying fit as you age and making wise and healthy choices will also be concepts addressed in the class.

### **DANCE 1 (3401)**

Prerequisites: None

Grade Level: 9, 10, 11, 12

Dance 1 focuses on dance as an effective means of communication and healthful living. In addition, the basic elements of dance will be identified and demonstrated.

**DANCE 2 (3402)**

Prerequisite: Successful completion of Dance 1

Grade Level: 10, 11, 12

Dance 2 will concentrate on comparing and contrasting dances of various cultures and historical periods as well as applying and demonstrating critical and creative thinking skills in dance. Emphasis will be placed on dance as a means of developing and maintaining a healthy lifestyle.

**DANCE 3 (3403)**

Prerequisite: Successful completion of Dance 1 and Dance 2

Grade Level: 11, 12

Dance 3 will stress practice in performing technical and choreographic skills necessary for artful presentation. Emphasis will be placed on the relationship of dance to other disciplines and careers. Research of dance history and artists will be an integral part of this level of study.

**DANCE 4 (3404)**

Prerequisite: Successful completion of Dance 1, Dance 2, and Dance 3

Grade Level: 12

Creating and performing dance is the major emphasis of dance study on the fourth level. The creative process will be studied, and students will develop an awareness of dance and its place in present and future cultures.

## MARKETING

**BUSINESS AND MARKETING ESSENTIALS (1439)**

Prerequisites: None

Grade Level: 9, 10, 11, 12

This course is designed to develop student understanding and basic skills in areas such as economics, marketing, business law, communications, human relations, management, customer relations, finance, entrepreneurship and management. Students will acquire knowledge of fundamental business activities through the use of problem solving skills and hands-on instruction. Students will be provided real world opportunities through the UHS school store, the Hawk Zone, and possible placement in the marketing work experience program as a senior. Students will also have the opportunity to become part of the international youth organization, DECA, which prepares emerging leaders and entrepreneurs for careers in marketing, finance, hospitality and management.

**MARKETING PRINCIPLES (0420)**

Prerequisites: None

Grade level: 9, 10, 11, 12

This course is designed to develop student understanding and basic skills in the areas of marketing such as channel management, marketing information and management, pricing, product service management and promotion. Students will utilize problem solving skills and be provided hands-on learning activities through the UHS school store, the Hawk Zone, and possible placement in the UHS Marketing Work Experience Program as a senior. Students will also have the opportunity to become involved in the international youth organization, DECA, which prepares emerging leaders and entrepreneurs for careers in marketing, finance, hospitality and management.

**MARKETING APPLICATIONS (0425)**

Prerequisites: Successful completion of any Business or Marketing class.

Grade Level: 10, 11, 12

This course is designed to develop further student knowledge and skills in the area of marketing. Students will utilize problem solving skills and learn through hands-on activities that involve planning, coordination, and demonstration of various marketing activities. The students will receive real world learning opportunities through the UHS school store, the Hawk Zone, and possible placement in marketing related jobs as part of the Marketing Work Experience Program as a senior. Students will also have the opportunity to participate in DECA, an international youth organization that prepares emerging leaders and entrepreneurs for careers in finance, hospitality and management.

### **MARKETING WORK EXPERIENCE/INTERNSHIP (0428)**

Prerequisite: Marketing teacher approval, prior submitted marketing work experience application and parent approval, personal transportation from school and work, valid driver's license, successful completion of a Marketing or Business class, and concurrent enrollment in a Marketing or Business class with Mrs. Shriver.

Grade Level: 12

Students are released for up to 3 periods in the afternoon starting with 6<sup>th</sup> period (the number of periods is determined by the school). The released time is used for comparable, approved employment at a local business. Students must maintain a minimum number of hours and submit required workplace documentation to the work experience teacher monthly. Students will earn elective credits and a grade for their workplace performance. Truancy, unacceptable work performance, school discipline referrals, failing grades in any class, or unemployment will not be tolerated and will result in dismissal from the work experience program and associated changes to the student's schedule.

### **SPORTS, ENTERTAINMENT AND RECREATION MARKETING (0434)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This course is designed to develop student understanding and skills in such areas as the field of sports, entertainment, and/or recreational marketing. The function of sports marketing is to determine the interests of the consumer and plan a product or service that the spectator will buy. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.

### **FASHION MARKETING (0407)**

Prerequisites: None

Grades Level: 9,10,11,12

This course is designed to develop student understanding and skills behind the business and marketing of the fashion industry. Students will learn by using problem solving skills, and hands on learning through the UHS school store. Students will also have the opportunity to participate in DECA, an international youth organization that prepares emerging leaders and entrepreneurs for careers in finance, hospitality, marketing and management.

### **HOSPITALITY AND TOURISM (0437)**

Prerequisites: None

Grade Levels: 9, 10, 11, 12

This course is designed to develop student understanding in such areas as hotel, restaurant or travel and tourism industry. Students will learn about trends in lodging, food and beverage, airline, cruise line, travel agencies, event planners and recreation. A focus on marketing skills will be part of the class. Students will also have the opportunity to participate in DECA, an international youth organization that prepares emerging leaders and entrepreneurs for careers in marketing, finance, hospitality and management.

## **MATH**

### **MATH 1 (3012)**

Prerequisite: None

Grade Level: 9

Math 1 is a math course that adheres to the West Virginia State Department of Education Standards and Objectives. The Math 1 curriculum is covered in 6 units: relationships between quantities, reasoning with equations, linear and exponential relationships, descriptive statistics, congruence, proof and construction, and connecting algebra and geometry through coordinates.

### **MATH LAB (3013)**

Prerequisite: Teacher Recommendation and concurrent enrollment in Math 1

Grade Level: 9

Math Lab is a class provided to allow extended time and support for mastery of the Math 1 standards. The Math 1 Lab course does count as one of the four math credits needed for graduation.

**MATH 2 (3014)**

Prerequisite: Successful completion of Math 1

Grade Level: 9, 10

Math 2 is a math course that adheres to the West Virginia State Department of Education Standards and Objectives. The Math 2 curriculum focuses on quadratic expressions, equations, and functions by comparing their characteristics and behavior to those of linear and exponential relationships studied in Math 1 as organized into six critical areas, or units. The link between probability and data is explored through conditional probability and counting methods, including their use in making and evaluating decisions. The study of similarity leads to an understanding of right triangle trigonometry and connects to quadratics through Pythagorean relationships. Circles and their quadratic algebraic representations round out the course.

**HONORS MATH 2 (3014H)**

Prerequisite: Successful completion of Math 1 and Teacher Recommendation

Grade Level: 9, 10

Honors Math 2 covers the same standards as Math 2 but in a more complex and rigorous fashion. This course will spend minimal time reviewing previously taught concepts and will move at a quicker pace and spend much less time on basic topics. Students enrolled in this course will be presented more challenging examples and asked to apply multiple math concepts at one time to find and justify the appropriateness of solutions. An exploratory based learning environment with an emphasis on project based learning will be employed.

**MATH 1/HONORS MATH 2**

Prerequisite: Teacher Recommendation

Grade Level: 9

This course is designed for students with a solid understanding of mathematical concepts who desire to take additional upper level math classes (i.e. calculus in senior year) but did not complete Math 1 in middle school. This rigorous course will meet in a 90-minute block period each semester. Students may earn a full credit for Math 1 upon successful completion of the first semester of this class. Similarly, they may earn a full credit for Math 2 upon successful completion of semester 2 of this class.

**MATH 3 STEM (3015)**

Prerequisite: Successful completion of Math 2 and Teacher Recommendation

Grade Level: 11

Math 3 STEM is a math course that adheres to the West Virginia State Department of Education Standards and Objectives. This is a class designed for students who are interested in pursuing STEM (Science, Technology, Engineering, and Mathematics) fields after completion of high school. It is in Mathematics 3 that students pull together and apply the accumulation of learning that they have from their previous courses, with content grouped into four critical areas, organized into units. 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. Finally, students bring together all of their experience with functions and geometry to create models and solve contextual problems. Additional topics in Math 3 STEM that are not covered in the other Math 3 options include analyzing decisions and strategies using probability concepts, extending polynomial identities to include complex numbers, the Fundamental Theorem of Algebra, the Binomial Theorem, Pascal's Triangle, rational expressions, derivation of the formulas for area of triangles, Law of Sines, Law of Cosines, and application of these laws to solve practical problems.

**MATH 3 LA (3015)**

Prerequisite: Successful completion of Math 2 and Teacher Recommendation

Grade Level: 11

Math 3 LA is a math course that adheres to the West Virginia State Department of Education Standards and Objectives. This is a class designed for college bound students who are interested in pursuing an area of study after completion of high school that does not emphasize STEM fields. It is in Mathematics 3 that students pull together and apply the accumulation of learning that they have from their previous courses, with content grouped into four critical areas, organized into units. 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. Finally, students bring together all of their experience with functions and geometry to create models and solve contextual problems.



### **MATH 3 TR (3015)**

Prerequisite: Successful completion of Math 2 and Teacher Recommendation

Grade Level: 11

Math 3 TR in conjunction with Math 4 TR takes the objectives of the Math 3 course and breaks them into a two-year Technical Readiness Pathway. This is a course designed for students interested in pursuing post high school opportunities that do not involve attendance at a four-year college. Math 3 TR is built from the mathematics content of Math 3 through integration of career clusters. This course integrates academics with hands-on career content. Students who select Math 3 TR will need to complete Math 4 TR as well to receive instruction in all Math 3 content standards.

### **MATH 4 (3016)**

Prerequisite: Successful Completion of MATH 3 LA or Math 3 STEM

Grade Level: 12

The Math 4 course builds on the Math 3 STEM or LA course. The fundamental purpose of Math 4 is to synthesize learning accumulated through previous courses and to provide the final springboard for Calculus. Students take an extensive look at the relationships among complex numbers, vectors, and matrices. They build on their understanding of functions, analyze rational functions using an intuitive approach to limits, and synthesize functions by considering compositions and inverses. Students expand their work with trigonometric functions and their inverses and complete the study of conic sections begun in Math 2. They enhance their understanding of probability by considering probability distributions. Previous experiences with series are augmented.

*Note:* For students intending to take calculus during their senior year, concurrent enrollment in Math 3 STEM and Math 4 may be considered with Teacher Recommendation.

### **HONORS MATH 4 (3016H)**

Prerequisite: Successful completion of Math 3 and Teacher recommendation

Grade Level: 12

Honors Math 4 covers the same standards as Math 4 but in a more complex and rigorous fashion. This course will spend minimal time reviewing previously taught concepts and will move at a quicker pace and spend much less time on basic topics. Students enrolled in this course will be presented more challenging examples and asked to apply multiple math concepts concurrently to find and justify the appropriateness of solutions. An exploratory based learning environment with an emphasis on project based learning will be employed.

### **MATH 4 TR (3017)**

Prerequisite: Successful completion of Math 3 TR and Teacher Recommendation

Grade Level: 12

Math 4 TR in conjunction with Math 3 TR takes objectives of the Math 3 course and breaks them into a two-year Technical Readiness Pathway. This is a course designed for students who are interested in pursuing post high school opportunities that do not involve attendance at a four-year college. Math 3 TR is built from the mathematics content of Math 3 through integration of career clusters. This course integrates academics with hands-on career content. Students must complete Math 3 TR in conjunction with Math 4 TR to receive instruction in all Math 3 content standards.

### **AP CALCULUS (AB) (3031)**



Prerequisite: Successful completion of Pre-Calculus and Trigonometry or Math 4; Teacher Recommendation

Grade level: 10, 11, 12

This course covers elements of the differential and integral calculus of functions of a single variable and is designed to prepare the student for the AB Advanced Placement examination in calculus. **Students must take the AP Calculus exam at the conclusion of the course**

### **AP CALCULUS (BC) (3032)**



Prerequisite: Successful completion of Honors Pre-Calculus and Honors Trigonometry or Math 4; Teacher Recommendation; Concurrent enrollment in AP Physics E&M is highly recommended.

Grade Level: 11,12

This course will cover differential and integral calculus, sequences and series, and polar coordinate calculus. This class will prepare students for the AP Calculus BC test in May. AP Calculus AB is not a prerequisite for this class. **Students are required to take the AP exam at the conclusion of the course.**



### **AP COMPUTER SCIENCE A (2801)**

Prerequisites: Completion of Honors Math 2 or Math 3 STEM

Grade Level: 10, 11, 12

This course serves as an introduction to Object Oriented Programming using Java as a language of study. Students will learn how to create and use objects, write polymorphic statements, and learn the fundamentals of inheritance. Additionally, students will learn to analyze and write algorithms, store data, gather input from users, and much more. Students will complete AP labs consisting of creating a chat bot, editing images, and designing a virtual card game. This course requires students to understand basic mathematical functions and experience problem solving, including a foundation of mathematical reasoning. AP Computer Science A may be taken in any sequence or concurrently with AP Computer Science Principles.

**Students are required to take the AP exam at the conclusion of the course.**



### **AP COMPUTER SCIENCE PRINCIPLES**

Prerequisites: Successful completion of Honors Math 2 or Math 3 STEM

Grade Level: 10, 11, 12

This course serves as an introduction to the principles of computation. Students will examine the Internet, cybersecurity, computing impacts, and programming in a creative manner. This course will focus on the global impact of all these things. Students will also use technology to create solutions to real-world problems. The assessment for AP Computer Science Principles consists of two parts: completion of tasks throughout the course and an AP exam at the end of the course. AP Computer Science Principles may be taken in any sequence or concurrently with AP Computer Science A. **Students are required to take the AP exam at the conclusion of the course.**

### **WvEB ALGEBRA (3051)**

Prerequisite: A “C” or better in Algebra 1, Geometry, Algebra 2, or Math 1, Math 2, or Math 3, and passing WVU placement test or an ACT score of 23 or higher; Math Teacher Recommendation; 3.0 GPA.

Grade Level: 11, 12

This is a college level web-enhanced algebra course for high school seniors. Upon successful completion of this semester, students will earn college credit for corresponding courses at any state supported college or university in West Virginia. Students must pay a \$150 (approximate cost) fee for college enrollment. Students who complete this course for college credit will receive credit for Math 126 at WVU. The grade will be included on both high school and college transcript. This course is an option for students wishing to complete college requirements while in high school.

\*Financial assistance may be available for qualifying students.

### **WvEB TRIGONOMETRY (3048)**

Prerequisite: Satisfactory score on the WVU Algebra Placement test; 3.0 GPA.

Grade Levels: 11, 12

This is a college level web-enhanced Trigonometry course for high school seniors. Upon successful completion of this semester students will earn college credit for corresponding courses at any state supported college or university in West Virginia. Students must pay \$150 (approximate cost) fee for college enrollment. Students who complete this course for college credit will receive credit for Math 128 at WVU. The grade will appear on both high school and college transcripts. Only students who have completed WvEB Algebra with “C” or better are eligible to enroll for WVU credits. This course is an option for students wishing to complete college requirements while in high school.

\*Financial assistance may be available for qualifying students.

### **TRANSITION MATH (3052)**

Prerequisites: Successful Completion of three years of high school math.

Grade Level: 12

Transition Math is a class offered for seniors who have already completed three credits of high school math. Students will be studying topics covered on the ACT and statewide assessments, including but not limited to, applications with various numeration systems, solving equations, using linear equations to predict solutions of real-life problems, data analysis, probability, and geometry. Students not meeting the state benchmark for math on junior state testing will be required to register for this course. This course does count as a math credit toward graduation from high school. It will not serve as an Algebra 2 credit required for entrance into a four-year degree program on the college level.



### **AP STATISTICS (3033)**

Prerequisite: Successful completion of Honors Algebra 2 or Math 3 STEM

Grade Level: 10, 11, 12

AP Statistics introduces students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data - Describing patterns and departures from patterns; Sampling and Experimentation - Planning and conducting a study; Anticipating Patterns - Exploring random phenomena using probability and simulation; and Statistical Inference - Estimating population parameters and testing hypotheses.

**Students are required to take the AP exam at the conclusion of the course.**

## **MUSIC/PERFORMING ARTS**

**Course level in performing arts courses is determined by number of years in that class regardless of student's grade level. For example, first year Drama students would enroll in Drama I.**

### **DRAMA 1, 2, 3, 4 (3839, 3840, 3841, 3842)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

Open to all students with a serious interest in acting performances. **Some after school rehearsals and a play performance are required.** This course will include a variety of **oral assignments** with concentration on the process of communication, building confidence, verbal and non-verbal communication. This course will satisfy the fine arts graduation requirement.

### **STUDIO ACTING 1, 2, 3, 4 (3835, 3836, 3837, 3838)**

Prerequisite: Audition Only

Grade Level: 9, 10, 11, 12

Studio Acting is an intensive, performance oriented course designed for students who wish to expand their knowledge of acting and their performance capabilities. All students who wish to register must be given permission from the instructor (Mr. Kyer) in advance (an audition may be required). All students must audition for and participate in both the fall play and spring musical.

### **CHAMBER CHOIR 1, 2, 3, 4 (3768)**

Prerequisite: Audition Only

Grade Level: 9, 10, 11, 12

Chamber Choir is designed for students who wish to be challenged musically. Admission to this group is by audition only or with special consent of the instructor. Students must be available for several commitments each semester outside of school. Students in the group are required to audition for at least one extra-curricular activity, including but not limited to all-state choir, UHS' musical or play, cabaret, etc. Because a balance of voice parts must be maintained in this group, it is quite possible for many deserving singers to be omitted from consideration. Grading is based upon attendance (including concert attendance), participation (including singing and theory tests based on musical knowledge), as well as teacher directed peer evaluation.

### **CONCERT CHOIR 1, 2, 3, 4 (3767)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

Concert Choir is an elective music class for students who enjoy singing. There is no audition involved. Anyone who wants to sing in a choir is eligible. There is one concert per semester outside of the school day that is required for a grade. All other required rehearsals will be during the normal school day. Grading is based on attendance, participation, and peer evaluation.

### **CONCERT BAND 1, 2, 3, 4 (3611, 3612, 3613, 3614)**

Prerequisite: Teacher approval

Grade Level: 9,10,11,12

Concert Band is an open instrumentation ensemble with emphasis on improving the musicianship of the ensemble performer. Music selected will be tailored to the group. Topics explored will include theory concepts and technique development. During the first semester, this ensemble performs as part of the Marching Band. Band students must attend summer rehearsals in order to participate in the band program, though exceptions may be made for students moving into the district after summer rehearsal begins.

### **PERCUSSION ENSEMBLE 1, 2, 3, 4 (3743)**

Prerequisite: Teacher Recommendation

Grade Level: 9,10,11,12

This is a performing ensemble that will play a variety of percussion literature. An emphasis is placed on music theory concepts and improving technique on all percussion instruments.

### **SYMPHONIC WINDS 1, 2, 3, 4 (3744)**

Prerequisite: Audition only

Grade Level: 9,10,11,12

Symphonic Winds is a select and limited instrumentation ensemble composed of more serious musicians, usually playing one per part to build confidence and independence. Emphasis will be on exposure to music theory and a wide range of styles and difficulty. Members are expected to participate in Solo and Ensemble and/or audition for All-State Band/Orchestra. The Wind Ensemble will audition for state and national honors. During the first semester, this ensemble performs as part of the Marching Band. Band students must attend summer rehearsals in order to participate in the band program, though exceptions may be made for students moving into the district after summer rehearsal begins.

### **JAZZ BAND 1, 2, 3, 4 (3716)**

Prerequisite: Audition only; Concurrently enrolled in Concert band and/or Symphonic Winds

Grade Level: 9,10,11,12

Jazz Band is a select auditioned instrumentation ensemble performing big band literature. Emphasis will be placed on ensemble playing, solo improvisation, and theory. Students must also be enrolled in either Concert Band or Symphonic Winds.

### **JAZZ COMBO 1, 2, 3, 4 (3717)**

Prerequisite: Audition only

Grade Level: 9,10,11,12

This class consists of several small auditioned instrumentation ensembles performing small group literature. Emphasis will be placed on fundamentals of small group jazz ensemble playing, solo improvisation and theory. Students must also be enrolled in either Concert Band or Symphonic Winds.

### **MUSIC APPRECIATION/HISTORY/HUMANITIES (3671)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

Music Appreciation is a course designed for students who would like to have a better understanding of music. Topics discussed will include: note reading, music theory, music history, opera, musical theatre, classical music, jazz, vocal music, orchestral and band music, composition, piano, and guitar. Students will be required to do approximately one project per month such as a paper on a well-known composer, a power point presentation, and an analysis of a musical score. Grading is based on daily participation, quizzes, and projects.

### **ORCHESTRA 1, 2, 3, 4 (3764, 3765, 3766, 3777)**

Prerequisite: Orchestra is open to students who have experience playing the violin, viola, cello, and upright bass. Previous experience at the middle school level is required.

Grade Level: 9, 10, 11, 12

Public performances and after school rehearsals will be scheduled as needed. Performances will take the form of formal concerts and ceremonies. The group will combine with other orchestra musicians in the county for these performances.

**After school activities will be a required element of the course.** All students will practice and perform music at the high school and college level of difficulty.

### **AP MUSIC THEORY (3651)**

Prerequisite: None

Grade Level: 11, 12

This course is designed for students considering the possibility of studying music as a major or minor at the collegiate level. The course will help to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score through aural and written skills as well as analytical, compositional and sight-singing skills. The course, initially, should seek to instill mastery of the rudiments and terminology of music, including the hearing and notating of: pitches, intervals, scales, chords, meter and rhythm. **Students are required to take the AP exam at the conclusion of the course.**



### **GUITAR (3728)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This class is for beginning guitar students. We will use acoustic guitars only, and students may use school-owned guitars if they do not own their own instrument. The course will cover basic music and chord reading, basic strum and pick patterns, and basic improvisational techniques.

### **MUSICAL PRODUCTION (3859)**

Prerequisite: Teacher Recommendation from theatre director or choral director

Grade Level: 10, 11, 12

This course is for anyone interested in working on the musical in some capacity. Students will learn all the aspects of producing a musical show: audition technique, set design and construction, lighting design, acoustics and sound, marketing and advertising, makeup, props, selecting an appropriate show, choreography, copyright laws, fundraising, partnering with businesses, ticket sales etc.

### **GLEE CLUB 1, 2, 3, 4 (3770)**

Prerequisite: Audition Only

Grade Level: 9, 10, 11, 12

This course is designed for selected singers. The goal is to develop a group of performers who would sing some difficult music while representing UHS at various community functions. There will be some after school rehearsals and travel to festivals and competitions.

## **PRE-ENGINEERING/PROJECT LEAD THE WAY**

Project Lead The Way provides a comprehensive approach to STEM Education. Through activity-, project-, and problem-based curriculum, PLTW gives students in high school a chance to apply what they know, identify problems, find unique solutions, and lead their own learning. Students explore various engineering fields, specialties, and processes. Students are empowered to actively participate in a collaborative environment where content comes to life.

*3 hours of college credit may be available.*

### **INTRODUCTION TO ENGINEERING DESIGN (IED) (2461)**



Prerequisite: Math 1 or concurrently enrolled

Grade Level: 9, 10, 11, 12

Introduction to Engineering Design is an introductory course that develops student problem solving skills with emphasis placed on the development of three-dimensional computer models. Students will learn a problem solving design process and how it is used to design products. A Computer-Aided Design System (CAD) will be used to create, analyze, and evaluate the designs. Students explore the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software and use an engineering notebook to document their work.

### **CIVIL ENGINEERING AND ARCHITECTURE (2466)**



Prerequisite: Concurrent enrollment or completion of Introduction to Engineering Design

Grade Level: 10, 11, 12

Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software.

### **PRINCIPLES OF ENGINEERING (POE) (2463)**



Prerequisite: Successful completion of Introduction to Engineering and have completed or are currently enrolled in Math 2.

Grade Level: 10, 11, 12

Principles of Engineering is a broad-based survey course designed to provide exposure to a variety of engineering topics and systems. Students' problem solving skills will be enhanced through application of the design process. Hands-on projects may include design and construction of a compound simple machine, and a virtual bridge. These projects provide "real world" applications of the engineering theory taught as part of the class. Through problems that engage and challenge, students explore a broad range of engineering topics including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

## DIGITAL ELECTRONICS (2462)

Prerequisite: Successful completion of Introduction to Engineering and have completed or are currently enrolled in Math 2.  
Grade Level: 10, 11, 12

This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, high definition televisions, etc. The major focus of this course is to expose students to the design process of combinational and sequential logic design, microprocessors, communication methods, engineering standards, and technical documentation.

## ENVIRONMENTAL SUSTAINABILITY (2467)

Prerequisite: Successful completion of IED and Math 2 (May be concurrent enrollment)

In Environmental Sustainability, students investigate and design solutions in response to real-world challenges related to clean and abundant drinking water, food supply issues, and renewable energy. Applying their knowledge through hands-on activities and simulations, students research and design potential solutions to these true-to-life challenges.

## ENGINEERING DESIGN AND DEVELOPMENT (EDD) (2464)

Prerequisite: Successful completion of IED, POE, and one other PLTW Course

The knowledge and skills students acquire throughout PLTW Engineering come together in EDD as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Finally, student teams will present and defend their original solution to an outside panel. While progressing through the engineering design process, students will work closely with experts and will continually hone their organizational, communication and interpersonal skills, their creative and problem solving abilities, and their understanding of the design process. Students apply the professional skills they have developed to document a design process to standards, completing EDD prepared for post-secondary opportunities including career readiness.

## SCIENCE

### BIOLOGY (6021)

Prerequisite: Physical Science 9 or Earth and Space Science

Grade Level: 10

This course is designed for students who have completed Earth and Space Science or who have completed Physical Science 9. This course offers an introduction to a variety of biological topics such as cells, genetics, natural selection, and ecology. Students will engage in active inquiries, investigations, and hands on laboratory activities.

### BIOLOGY HONORS (6021H)

Prerequisite: "A" or "B" average in 9<sup>th</sup> grade science; Teacher Recommendation

Grade Level: 10 (9<sup>th</sup> with approved waiver)

Biology Honors addresses the same topics as Biology only with increased rigor and extended study of subject matter. Additional laboratory work and greater student reasoning skills are required. The use of statistical analysis to process data is introduced. This class is designed to prepare students for AP Biology and/or university level Biology.

### AP BIOLOGY (6121)

Prerequisite: Successful completion of Honors Biology and Teacher Recommendation.

Grade Level: 10, 11, 12

This class focuses on lab activities as well as traditional Biology content. This is a rigorous course, equivalent to an introductory college Biology course and usually taken by Biology majors during their freshman year. The course includes labs that emphasize experimental and quantitative exercise as well as student designed labs. This class is two periods in length and includes a lab. **Students are required to take the AP exam at the conclusion of the course.**

### **EARTH AND SPACE SCIENCE - GRADE 9 (required course) (6261)**

(Course is also available to grades 10-12)

Prerequisite: Successful completion of Math 1 or concurrently enrolled in Math 1

Grade Level: 9, 10, 11, 12

This course encompasses the study of Earth's formation and early history, plate tectonics, water properties, carbon cycle, weather systems and climate change, use of sustainability of natural resources, co-evolution of Earth and life on Earth, and dating of crustal rocks. The astronomy component includes the life cycle of the sun and stars, the Big Bang Theory, and predicting planetary motion.

### **HONORS EARTH AND SPACE SCIENCE – GRADE 9 (6121H)**

(course also available to grades 10-12)

Prerequisite: Successful completion of Math 1 or concurrently enrolled in Math 1; “A” or “B” in 8<sup>th</sup> grade science; and Teacher Recommendation.

The Honors Earth and Space Science 9 content is consistent with the Earth/Space Science course. Students will explore these concepts in greater depth. In general, the academic pace and rigor will be greatly increased for honors level course work by adding additional readings and required reflections. Laboratory investigations that include the use of scientific inquiry, research, measurement, problem solving, laboratory apparatus and technologies, experimental procedures, and safety procedures are an integral part of this course.



### **AP ENVIRONMENTAL SCIENCE (6221)**

Prerequisite: Grade “A” or “B” in Biology; Teacher Recommendation.

Grade Level: 11, 12

The goal of AP Environmental Science is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems- both natural and manmade, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. **Students are required to take the AP exam at the conclusion of the course.**

### **HUMAN ANATOMY & PHYSIOLOGY (6103)**

Prerequisite: Successful completion of Biology.

Grade Level: 11, 12

Human Anatomy and Physiology is an advanced science course. Students taking this course might have interest in health sciences or biological sciences. This course is an exacting survey of the human anatomy. This course focuses on anatomical identification, anatomical terminology, and physiological processes of the human body systems.

### **PHYSICAL SCIENCE (6011)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

The Physical Science course develops understandings of the core concepts from chemistry and physics: structure and properties of matter, chemical reactions, forces and interactions, energy, waves, and electromagnetic radiation. There is a focus on developing and using models, planning and conducting investigations, analyzing and interpreting data, using mathematical and computational thinking, and constructing explanations.

### **PHYSICS (6041)**

Prerequisite: Students must have successfully completed Math 3 STEM.

Grade level: 11, 12

This course serves as an introduction to classical physics. The survey of topics includes kinematics, dynamics, energy, momentum, gravitation, electricity, magnetism, waves, and optics. The course is designed to develop a conceptual understanding as well as to enhance laboratory and problem solving skills.



### **AP PHYSICS: MECHANICS (6325)**

Prerequisite: Students must have completed Math 4 or Trigonometry and Honors Pre-Cal. Physics is recommended but not required with Teacher Recommendation.

Co-Requisite: AP Calculus AB or AP Calculus BC

Grade Level: 11, 12

This course is an in-depth study of classical mechanics. Topics include kinematics, dynamics, energy, momentum, rotational motion, oscillations, and gravitation. The analysis is calculus-based and requires a high level of mathematical and problem solving skills. **Students are required to take the AP exam at the conclusion of the course.**

### **AP PHYSICS: ELECTRICITY and MAGNETISM (6323)**

Prerequisite: Students must have completed Math 4 or Trigonometry and Honors Pre-Cal. Physics is recommended but not required with Teacher Recommendation

Co-Requisite: AP Calculus BC and AP Physics Mechanics (concurrent or previous successful completion)

Grade Level: 11, 12

This course is an in-depth study of advanced electricity and magnetism. Topics include electrostatics, conductors and capacitors, circuits, magnetism, and electromagnetism. The analysis is intensely calculus-based and, as such, requires very advanced comprehension of mathematics. Students **are required to take the AP exam at the conclusion of the course.**

### **CHEM TECH (6032)**

**This tech science class satisfies the third or fourth science needed for graduation but does not satisfy the lab science required for a four-year degree program.**

Prerequisite: Algebra 1 or Math 1

Grade Level: 11, 12

The American Chemical Society designed this introduction to chemistry course for high school students who will not be majoring in science in college. This course covers the topics of a traditional chemistry course with less emphasis on the algebra applications and more emphasis on organic chemistry, biochemistry, and nuclear chemistry. This course may be used to fulfill high school lab science graduation requirements.

### **CHEMISTRY (6031)**

Prerequisite: Successful completion of Math 2

Grade Level: 10, 11, 12

This course deals with the chemical world emphasizing laboratory experiments and investigative approaches. It is designed to prepare students for college chemistry. This course fulfills high school graduation requirements and is recognized as a lab science for admission to a four year WV college or university.

### **HONORS CHEMISTRY (6031H)**

Prerequisite: Successful completion of Honors Math 2

Grade Level: 10, 11, 12

Honors Chemistry is an advanced comprehensive high school chemistry course. The Honors Chemistry class will move more quickly through foundations of chemistry to allow more time for advanced topics and labs. The topics to be studied include the makeup of matter, the design of atoms, the periodic table, bonding, formulas, reactions, solutions, acids, bases, and several specialized branches of chemistry. The experiments in the laboratory exercises will incorporate the following tasks in problem solving: planning and designing, performance, analysis, and application.



### **AP CHEMISTRY (6321)**

Prerequisite: Successful completion of Math 3 STEM and Honors Chemistry; Teacher Recommendation

Grade Level: 11, 12

This is an advanced chemistry course designed to prepare the student for the AP Chemistry exam. This course covers content typically explored in a full year of entry level college general chemistry. The course is a two-period block course that has strong math and lab components. It is the student's responsibility to determine whether or not their college of interest accepts AP credit. **Students are required to take the AP exam at the conclusion of the course.**

### **FORENSIC SCIENCE (6062)**

Prerequisite: Successful completion of Earth and Space Science

Grade Level: 10, 11, 12

This is an introductory elective class intended to give students hands-on experience in various aspects of criminal investigation. Concepts of biology, genetics, chemistry, and Earth/environmental science and physics will be covered. This course is suitable for 10<sup>th</sup> grade (and above) students who have a passing grade in Earth and Space Science.



# SOCIAL STUDIES

## Helpful hints for scheduling your history classes

Choose from the following options by grade level:

9<sup>th</sup> grade: World History, Honors World History, AP World History

10<sup>th</sup> grade: US History to 1900, Honors US History to 1900, AP US History

11<sup>th</sup> grade: 20/21 Century History, Honors 20/21 Century History, AP US History,  
AP European, AP Human Geography

12<sup>th</sup> grade: Civics, Honors Civics, AP Government

### **WORLD to 1900 (7010)**

Prerequisite: None

Grade Level: 9

This class includes the study of the world emphasizing the historic, geographic, political, and social structure of various cultural regions of the world from the dawn of civilization to the interdependent world of the twentieth century.

### **HONORS WORLD to 1900 (7010H)**

Prerequisite: Teacher Recommendation

Grade Level: 9

This class includes the study of the world at an accelerated pace, emphasizing the historic, economic, geographic, political, and social structure of various cultural regions of the world from the dawn of civilization to the interdependent world of the twentieth century. The use of historical thinking skills and themes will be an essential part of Honors World History.

Applying these skills through primary source analysis and historical writing will be needed to succeed.

### **US HISTORY TO 1900 (7009)**

Prerequisite: None

Grade Level: 10

The emergence of the United States into the world encompasses a concentrated study of the United States from its inception until its emergence into world affairs. Social studies concepts such as colonialism, imperialism, and nationalism are common threads to understanding that the unfolding of chronological events is a study in cause and effect. The course concludes with the Industrial Revolution as stimulus for imperialism and sets the stage for the emergence of the US as a world power.

### **HONORS US HISTORY TO 1900 (7009H)**

Prerequisite: Teacher Recommendation

Grade Level: 10

The course covers the content of the specific subject, as outlined in the US History to 1900 description and includes in-depth study of additional related topics at an accelerated pace. The content is much more rigorous and requires work to be in a more detailed and descriptive manner. Students will be expected to read and analyze additional primary sources, as well as current event articles. Essay writing, historical analysis, and critical thinking will be used to examine the events and themes in this time period.

### **TWENTIETH/TWENTY-FIRST CENTURIES 11 (7011)**

Prerequisite: None

Grade Level: 11

This course provides students with an understanding of the major events and people who have shaped the world in which they live. Students will examine the political, economic, and technological changes which have occurred during these centuries.

### **HONORS TWENTIETH/TWENTY-FIRST CENTURIES 11 (7011H)**

Prerequisite: Teacher recommendation

Grade level: 11

This in-depth and accelerated course provides students with an understanding of the major events and people who have shaped the world in which they live. Students will examine the political, economic, and technological changes, which have occurred during this century. Additional projects and papers may be required to accentuate the Honors piece of the course. Students will be expected to read articles and/or novels outside of class for current events and submit accompanying written reports.



### **AP US HISTORY (7046)**

**(This course may be taken in lieu of U.S. in the Twentieth Century OR U.S in the Nineteenth Century.)**

Prerequisite: Teacher recommendation

Grade Level: 10, 11

This class is a college-level course, which may be taken in lieu of U.S. in the Twentieth Century OR U.S in the Nineteenth Century. It will examine major themes in U.S. history from the founding of the first colonies to the present. This class is designated to be equivalent to a two semester introductory college course. **Students are required to take the AP exam at the conclusion of the course.**



### **AP HUMAN GEOGRAPHY (7042)**

**(This course may be taken in lieu of Twentieth/Twenty-First Centuries 11)**

Prerequisite: Teacher recommendation

Grade Level: 9, 10, 11, 12

This class provides an introduction to the geographical dimension of human behavior and the human altered landscape, including social, demographic, economic, and political attributes of societies. Instruction of content and material are delivered at a college level. **Students are required to take the AP exam at the conclusion of the course.**



### **AP WORLD HISTORY (7048)**

**(Satisfies World History credit)**

Prerequisite: Teacher recommendation

Grade Level: 9, 10, 11, 12

This course covers the following periods: Technological and Environmental Transformations to c. 600 B.C.E., Organization and Reorganization of Human Societies c. 600 B.C.E. to c. 600 C.E., Regional and Trans regional Interactions c. 600 C.E. to c. 1450, Industrialization and Global Integration 1750 to c. 1900, Acceleration of Global Change and Realignments c. 1900 to the Present. Material and content are delivered at a college level. **Students are required to take the AP exam at the conclusion of the course.**



### **AP EUROPEAN HISTORY (7045)**

**(Class may be taken in lieu of Twentieth/Twenty-First Centuries 11 if student already passed US to 1900, or AP US History)**

Prerequisite: Teacher recommendation

Grade Level: 10, 11, 12

AP European History develops an understanding of the main themes in modern European history, including political and diplomatic, intellectual and cultural, and social and economic history. Analyzing historical evidence and reading critical literary narratives is integrated into the chronologically ordered whole picture of the modern history of Europe. Using a college-level textbook, this course begins with the Renaissance and concludes with the demise of communism in Eastern Europe, the reunification of Germany, and the crisis of global terrorism. **Students are required to take the AP exam at the conclusion of the course.**

### **CIVICS/ECONOMICS (7031)**

Prerequisite: None

Grade Level: 12

This course is divided into two sections, Civics and Economics. In Civics, students will analyze the personal and political roles of responsible citizens in an American democracy. The Economics portion of the course deals with the basic principles of microeconomics and macroeconomics. Students will also engage in financial literacy activities and simulations.

### **HONORS CIVICS/ECONOMICS (7031H)**

Prerequisite: Teacher Recommendation

Grade Level: 12

This in-depth course is divided into two sections, Civics and Economics. In Civics, students will analyze the personal and political roles of responsible citizens in an American democracy. The Economics portion of the course deals with the basic principles of microeconomics and macroeconomics. Students will engage in financial literacy activities and simulations. Honors Civics covers material in greater complexity, novelty, and pacing. It is distinguished by a difference in the level of work expected, not merely increased in quantity. Students can expect to read novels and primary source documents outside of class, complete research and keep up on current events.



### **AP US GOVERNMENT AND POLITICS (7044)**

Prerequisite: Teacher Recommendation

Grade Level: 11, 12

This course covers key elements of the American political system such as Constitutional underpinnings and federalism; political culture; political processes (political parties) and elections; institutions of government; civil rights and civil liberties; and public policy. Materials and content are delivered at a college level. **Students are required to take the AP exam at the conclusion of the course.**

### **PSYCHOLOGY (7321)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This course will explore the field of Psychology. Specifically, students will study the history, modern day approaches and theories, methods of examining behavior and mental processes, and careers available in the discipline. The study of Psychology will provide tools to help students gain insight into their own behaviors as well as their relationships with others.



### **AP PSYCHOLOGY (7047)**

Prerequisite: Teacher Recommendation

Grade Level: 9, 10, 11, 12

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. **Students are required to take the AP exam at the conclusion of the course.**

### **SOCIOLOGY (7341)**

Prerequisite: Conclusion of freshman year of high school

Grade Level: 10, 11, 12

In this course students will be introduced to the study of Sociology and the unique perspective of studying social groups. This class provides a solid foundation for students who will take Sociology in college their freshman year. This course will examine major concepts and theories related to social structures, socialization, deviance, racial and ethnic relations, gender and age inequality and social change. Pop culture will be woven into the course to show examples of how sociology relates to everyday life. Students will also gain tools to improve their own personal relationships.

### **HISTORY THROUGH FILM (7350)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This course studies the history of American film. The first semester covers the beginning of movies up to the 1940's, with focus on great films and film makers, actors/stars. The second semester picks up from the 1940's and goes through the remaining decades, still focusing on the best films, film makers, actors and stars. Writing modules will be established in which the previously viewed films will be reviewed by students, with the intent of improving writing skills.

### **HISTORY OF AMERICAN SPORTS (7342)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This course will examine the tremendous histories of the different sports in America. Students will not only be able to learn about these sports from their inception in our society, but also their effects on the American public through times of war, times of prosperity, and times of economic struggle. Sports have played a large part in shaping our country's identity and often parallel events from other aspects of our lives.

### **AMERICAN CIVIL WAR STUDIES (7237)**

Prerequisites: Concurrently enrolled in or have passed US History to 1900

Grade Level: 10,11,12

This course will be an in-depth study of the American Civil War. Students will analyze and synthesize the political, geographic, social, and economic causes of the war and the impact on both the United States and Confederate States of America. Students will acquire an in-depth knowledge of the war through the examination of warfare, strategy and tactics, leadership (including Abraham Lincoln, Robert E. Lee and Ulysses S. Grant), key battles, advancement in technologies of the time, courage, brotherhood and bravery of both sides. Students will track key units from the war, re-create famous battles through historical simulations and have experiential learning opportunities.

# TECHNOLOGY EDUCATION

## **CONSTRUCTION SYSTEMS (2424)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This course provides opportunities for students to study and apply technological systems, concepts, and processes as they relate to construction technology. Group and individual activities engage students in creating ideas, developing innovations, and implementing design solutions as they relate to construction systems. Students will utilize problem-solving techniques and manipulative skills while completing laboratory activities to develop an understanding of course concepts. Topics range from how construction meets the needs of society to basic construction techniques. Safety instruction is integrated into all activities. Students are encouraged to become active members of the Technology Student Association (TSA), which is an integral component of the program and provides curricular opportunities that enhance student achievement.

## **MANUFACTURING SYSTEMS (2442)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This course will introduce students to the basic elements of the manufacturing industry. This course provides opportunities for students to study and apply technological systems, concepts, and processes in the development and operation of a student manufacturing enterprise. Group and individual activities engage students in creating ideas, developing innovations, and implementing design solutions as they relate to manufacturing systems. Students will utilize problem-solving techniques and manipulative skills while completing laboratory activities to develop an understanding of course concepts. Safety instruction is integrated into all activities. Students are encouraged to become active members of the Technology Student Association (TSA), which is an integral component of the program and provides curricular opportunities that enhance student achievement.

## **COMMUNICATIONS SYSTEMS (2421)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This course provides opportunities for students to study and apply technological systems, concepts, and processes in communication technology. Group and individual activities engage students in creating ideas, developing innovations, and implementing design solutions as they relate to communication systems. Students will utilize problem-solving techniques and manipulative skills while completing laboratory activities to develop an understanding of course concepts. Safety instruction is integrated into all activities. Students are encouraged to become active members of the Technology Student Association (TSA), which is an integral component of the program and provides curricular opportunities that enhance student achievement.

**\*\*This class will be offered during the 2016-2017 school year and then every other year following. It will be alternated with Transportation Systems (2448).**

# WORLD LANGUAGES

## **CHINESE 1 (5611)**

Prerequisites: None

Grade Level: 9,10,11,12

This course is designed to introduce the student to the Chinese language, culture, history, and geography through reading, writing, listening, and speaking in Chinese.

## **CHINESE 2 (5612)**

Prerequisite: Chinese 1

Grade Level: 9, 10, 11, 12

This course is a continuation course designed for students who have successfully completed Chinese 1. The emphasis of this course is on listening, speaking and reading Chinese, plus some exercises with writing skills. Students will (1) develop their vocabulary capacity through reading and (2) improve daily oral Chinese.

**CHINESE 3 (5613)**

Prerequisite: Chinese 1 and 2

Grade Level: 10, 11, 12

In this course, students will engage in conversation, provide and obtain information, and exchange opinions on various topics including current events. Students will understand and interpret written and spoken Chinese on a variety of topics including current and historical events. Students will demonstrate an understanding of Chinese culture.

**CHINESE 4 (5614)**

Prerequisite: Chinese 1, 2 and 3

Grade Level: 11, 12

This advanced level of Chinese is designed for students to be able to communicate using both spoken and written forms of Chinese, and students must be able to demonstrate a wide range of skills including interpersonal, interpretive and presentational.

**FRENCH 1 (5621)**

Prerequisite: None

Grade Level: 9, 10, 11, 12

This course is designed to introduce the student to French language, culture, history, and geography through reading, writing, listening, and speaking in French. Materials used include videos, games and songs.

**FRENCH 2 (5622)**

Prerequisite: French 1

Grade level: 9, 10, 11, 12

French 2 continues the development of reading, writing, listening, and speaking skills. Cultural information is also included to give the student an opportunity to observe and understand the French-speaking world.

**FRENCH 3 (5623)**

Prerequisite: French 1 and 2

Grade level: 10, 11, 12

The emphasis in French 3 is on the application of skills learned in French 1 and 2. New language structures are minimized. Students will be introduced to French literature and history while continuing to practice speaking and listening skills.

**FRENCH 4 (5624)**

Prerequisite: French 3

Grade level: 11, 12

This course develops language skills (reading, writing, listening, and speaking) that can be used in various activities and disciplines. The ability to comprehend and interpret authentic text is emphasized.

**SPANISH 1 (5661)**

Prerequisite: None

Grade level: 9, 10, 11, 12

This course in Spanish emphasizes listening and speaking skills. Conversation, poems, songs, games, and oral readings are utilized. The reading and writing of Spanish and basic grammar are introduced. Cultural material is used to make the student aware of the Spanish-speaking world.

**SPANISH 2 (5662)**

Prerequisite: Spanish 1

Grade level: 9, 10, 11, 12

This course continues the development of previously learned skills such as listening, speaking, reading, and writing skills. Students are expected to demonstrate adequate conversation and pronunciation skills as well as listening comprehension abilities.

**HONORS SPANISH 2 (5662H)**

Prerequisite: Spanish; Teacher Recommendation

Grade Level: 9, 10, 11, 12

This course builds on previously learned skills and emphasizes increased accuracy such as listening, speaking, reading, and writing. This course stresses the correct writing of the language and the course is conducted mainly in Spanish. Students will continue their progress toward mastery of the present and preterit tenses.

**SPANISH 3 (5663)**

Prerequisite: Spanish 1 and 2

Grade level: 10, 11, 12

Students are expected to demonstrate facility in the language skills of listening, speaking, reading, and writing, to be well acquainted with several verb tenses, and to demonstrate mastery of more advanced grammatical structures.

**SPANISH 4 (5664)**

Prerequisite: Spanish 1, 2, and 3

Grade Level: 11, 12

Students continue to expand their knowledge of various aspects of the target language and culture. They apply, evaluate, explain, and integrate this information. Comprehension of the main ideas and significant details in selected authentic texts are emphasized, as are the use of subjunctive and other advanced grammatical structures.

**SPANISH 5 (5665)**

Prerequisites: Spanish 1-4

Grade Level: 12

Students will apply, evaluate, explain, discuss, summarize and state opinions on selected short stories and current events.

**AP SPANISH (5669)**

Prerequisite: Spanish 4 and Teacher Recommendation

Grade Level: 11, 12

AP Spanish offers high school students the opportunity to earn college credit. The main objective is to continue developing a proficiency in Spanish. The course allows students to develop all four skills (Listening, Speaking, Reading, Writing) stressed in the examination. It also allows students to gain a better understanding of Hispanics and their culture through the readings, movies, and other activities that they will be exposed to during the course. **Students must take the AP exam at the conclusion of the course.**

## MISCELLANEOUS ELECTIVES

**STUDENT LEARNING, DEVELOPMENT AND DIVERSITY (1302)**

Prerequisite: None

Grade Level: 10, 11, 12

This course is designed to focus on various physical, cognitive, social, emotional and moral development, environments and social institutions, family life, demographics, and culture influencing human growth and development. This course also provides information and activities for guiding behavior and meeting the needs of social groups. Students will utilize problem solving techniques and participate in hands-on activities. Students will be provided with real world learning opportunities and instruction related to educational careers. Students are encouraged to become active members of the Future Educators of America Association and/or a career technical student organization. This course is the first in a series of courses that will be taught at our Monongalia Technical Education Center (MTEC) as part of the future educators program.

## **WEST VIRGINIA VIRTUAL SCHOOL**

West Virginia students, like their peers nationally, are currently taking courses online that are not offered in their local schools. Some students schedule West Virginia Virtual School (WVVS) courses that they are unable to enroll in locally due to scheduling conflicts. Many schools use WVVS courses when it is impossible to find highly qualified teachers to teach the course(s) in the local school.

Students and school personnel may review the many courses in the WVVS catalog of courses that is available on the West Virginia Department of Education web site. More than 250 core and elective courses are available, including many different AP courses. Students interested in taking a virtual course should see their school counselor for an application. Application must be received and approved at the school and county level before enrollment. Certain criteria will apply.

UHS will provide a school mentor and/or a facilitator who will receive regular reports about student progress and will serve as the student's first contact for academic problems. Students are expected to show adequate progress throughout the virtual course in terms of time on task, assignment completion, and grades earned. Failure to show adequate progress in terms of pacing or progress may result in removal from the program.

WVVS courses do become a part of the student's transcript (using the Monongalia County grading scale) whether the course is completed or not. If completed, then the grade earned in that course is added to the student's transcript. If the student withdraws from the course within the first 28 days, then it is recorded as WNG (Withdrawn No Grade). A WF (Withdrawn Failing) grade will be recorded if the student drops the class after the 28-day period.

Tuition for virtual courses may be paid by the WV Virtual School with some stipulations and is contingent on state funding. The county incurs no expense for the first ten students in the same course in the same school (e.g., the first ten students in Algebra 2) per year. We provide any textbooks and/or lab materials required by virtual courses.

Virtual School is not funded by the school or state outside the regular school calendar.

### **ACCESS (WVU Release)**

WVU release is for those students wishing to take a WVU course prior to high school graduation. Students must notify the Guidance Office prior to the scheduling period for the following school year. Students must also complete a WVU and ACCESS application. Applying students must have at least a 3.0 GPA. An ACT exam is not necessary for this program. Cost: Approximately \$700 for a three-hour class.

### **CREDIT RECOVERY**

Credit Recovery is designed to allow students to recover a lost credit primarily in the core subjects (English, Math, Science, Social Studies) although some other courses may be available. To qualify, a student must have tried and not passed the class with at least a 40%. An after school class (dependent on need and total enrollment) will provide time for students to access the software under the supervision of an instructor. The student will have only one semester to complete the course(s) in which he/she wishes to enroll. If the student does not complete 100% of the course(s) in the allotted time, they will need to start over from 0%. An application is required along with parent/guardian signature. Progress reports will be sent home to ensure adequate progress.



## **University High School Administration**

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Mr. John Conrad – Asst. Principal  
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## **University High School Counselors**

(Counselors assigned by student's last name)

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Mrs. Bethany Underdonk (G – L)  
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