

Mingus Union High School Course Catalog 2024-2025

High School Course Requirements

All students must earn 22 credits. Three academic tracks include: standard track, college bound track, or AP track. Each student will develop a 4-year plan identifying the sequence of courses needed to graduate.

Standard Track: The standard track consists of the minimum requirements needed in order for a student to graduate from high school.

College/University/Dual Enrollment Track: This track consists of the minimum requirements needed in order for a student to graduate from high school and be admissible to NAU, ASU, or U of A. Students who plan to attend an out of state public or private university should check admissions requirements for those institutions. We partner with Yavapai College to offer college credits for classes listed as Dual Enrollment (DE) please note, most academic DE courses require placement testing the semester prior to the start of the course.

AP Track: The AP track consists of graduating from high school, having completed more rigorous classes to possibly earn college credits. In order to earn college credits for AP classes, typically a student must score a 4 or 5 (check AZ Transfer site Exam Equivalency Guide or with each university for exact score needed).

The following table lists the number of credits needed in each subject area, and minimum grade point average needed. Many subjects require a particular sequence to be followed.

Subject	Standard Track	College Bound/AP Track
ENGLISH	4 credits	4 credits
MATH	4	4
SCIENCE	3	3 (lab sciences)
SOCIAL STUDIES	3	3
FINE ART -OR- CAREER TECHNICAL EDUCATION (CTE)	1 2 (in the same subject)	1 1 (2 in same subject for graduation)
PHYSICAL EDUCATION	1	None required for college admissions 1 credit required for HS graduation
WORLD LANGUAGE	0	2 (in the same language)
ELECTIVE CREDITS	5 or 6	4 or 5
TOTAL NUMBER OF CREDITS	22 credits	22 credits
GRADE POINT AVERAGE (GPA)	No minimum GPA	3.0+ (ACT/SAT Testing recommended)
REQUIRED TESTING	Pass Civics Exam Complete CPR Training	Pass Civics Exam Complete CPR Training

Advanced Placement Courses

AP courses are college-level classes in a wide variety of subjects that you can take while still in high school. They offer you challenging course work and a taste of what college classes are like.

- AP courses offer the opportunity to study a subject in-depth at the college level. This better prepares a student for college work.
- If you receive a qualifying score on an AP Exam, you may be eligible for credit, advanced placement or both at most colleges in the United States.
- Students are eligible for a weighted grade on their transcript when they complete the AP Exam at the end of the course.
- AP Course Cost is \$15 for test prep book and College Board Test Fee (approximately \$100) Students who qualify for Free and Reduced Lunch are eligible for financial assistance.

Dual Enrollment Courses

Dual Enrollment (DE) Courses allow students to earn both high school and college credits at the same time. The DE courses are taught at the high school by high school teachers who have the credentials to teach for the college. Upon satisfactory completion of the class, students will have an official college transcript for transfer credits or for Yavapai College degree and certification programs.

To be eligible for Dual Enrollment (DE), students must complete additional steps which include:

- Yavapai College Admissions
- Completion of the Accuplacer exam
 - Some courses require students to have a certain score on the Accuplacer to be eligible to take the course.
- Wishlisting the course in the YC Early College System (during Course Selection)
- Enrollment in the YC Course (Fall semester)

Dual Enrollment courses cost \$10 per credit hour paid during the MUHS Registration process. Scholarships are available for those who qualify.

For information on transferring classes to Arizona Public Universities, visit: www.aztransfer.com

VACTE (Valley Academy for Career and Technology Education) Central Campus Programs

Valley Academy for Career and Technology Education is a joint technological education district serving high schools in our area including Mingus Union High School. VACTE offers numerous Central Campus Programs available for Mingus Union High School students.

To be eligible for VACTE Central Campus Programs, students must complete additional steps which include:

- VACTE Student Application (available during course selection)
- Yavapai College Admissions (if the course is Dual Enrollment through Yavapai College)
 - Completion of the Accuplacer exam - Some courses require students to have a certain score on the Accuplacer to be eligible to take the course.
 - Wishlisting the course in the YC Early College System (during Course Selection)
 - Enrollment in the YC Course (Fall semester)

If a student drops the VACTE Central Campus Course once the semester has started they will be charged the full cost for attendance in that course (this can be up to \$1000).

NCAA

Before an athlete can play a sport or receive an athletic scholarship at a Division I or Division II college, he/she must meet the specific academic criteria as set forth by the NCAA. Students must have a 2.3 GPA (based on a 4.0 scale) in 16 core courses. For additional information on GPA and test scores look at the Initial Eligibility Index on the NCAA website – ncaa.org

Students must take specific courses in order to meet NCAA eligibility requirements. These include a college preparatory English, science, social studies, math courses with at least one year of algebra and geometry. It is very important that athletes meet with their school counselor and talk to their high school coach to obtain information on all the NCAA requirements. Athletes also need to complete an NCAA Clearinghouse Students Release form after their junior year in order to initiate the eligibility process. This is done through the NCAA Eligibility Center website.

English Courses

Track	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Standard	English 9	English 10	English 11	English 12 or DE English 12
University	English 9	English 10	English 11	English 12 or DE English 12
AP	Honors English 9	Honors English 10	AP Language and Composition	DE English 12

Honors and AP Note: English Honors and AP courses are intended for highly motivated students for whom reading and writing is a passion. Admittance to an Honors course may require the following:

1. Demonstrated commitment to course work.
2. A recommendation from the previous English teacher
3. Parent/Counselor meeting with instructor

Course	Grades	Credits	Prerequisites	Course #
English 9	9	1	None	2010
<p>English 9 provides students with an overview of literature across forms and genres (short stories, novels, poetry, drama, and literary nonfiction). To begin preparation for the State Standardized Exam, the writing focus is expository and persuasive to increase students' analytical skills. Additional students will begin to read and respond to literary criticism. Also included are skills in using the library, speaking, listening and vocabulary. Students are required to complete a minimum of four extended writing assignments (two per semester) in order to receive credit for the class.</p>				

Course	Grades	Credits	Prerequisites	Course #
Honors English 9	9	1	Teacher recommendation	2015
<p>The material students in Honors will build a foundation of knowledge, concepts, and skills needed to engage successfully in a higher level of learning, helping to ensure future success in AP courses. This course will challenge students to think critically and express content understandings in a variety of ways. Students will be required to read, write, listen, and speak at an academically advanced level, with an emphasis on providing research and evidence to support findings, positions, and analysis. Students are required to complete a minimum of four extended writing assignments (two per semester) in order to receive credit for the class.</p>				

Course	Grades	Credits	Prerequisites	Course #
English 10	10	1	2010 – English 9 or 2015 – Honors English 9	2020
<p>English 10 builds on freshman skills and continues to prepare sophomore students for state-mandated tests. As part of the curriculum, students will study literature from around the world, primarily Latin America, Asia, Africa, the Middle East, and Russia. Each unit allows for close study of literary works, as well as consideration of historical and cultural context. Writing will be focused on literary analysis, persuasive and expository essays. Students will also take part in student-led seminars, deliver memorized poems or speeches, and continue vocabulary study. Students are required to complete three essays in the course of the school year in order to receive credit for the class.</p>				

Course	Grades	Credits	Prerequisites	Course #
Honors English 10	10	1	2015 – Honors English 9 or teacher recommendation	2025
<p>World Literature is the foundational study underlying Honors English 10; there is a greater concentration on analytical writing, reading and discussions. Weekly vocabulary study comes from a separate vocabulary book and constitutes a hefty percentage of the course grade. Students are required to satisfactorily complete a minimum of three essays to earn credit for the course.</p>				

Course	Grades	Credits	Prerequisites	Course #
English 11	11	1	2020 – English 10 or 2025 – Honors English 10	2030
<p>English 11 is devoted to a study of American literature from the early Native American mythology to the late twentieth century. Students build their writing skills from previous years, integrating multiple sources and perspectives into their work, reading literary criticism, and writing longer and more complex research and analytical essays. Students are required to complete a minimum of six extended writing assignments (three per semester) in order to receive credit for the class.</p>				

Course	Grades	Credits	Prerequisites	Course #
AP Language and Composition	11	1	2025 – Honors English 10 or C or higher in English 10 or teacher recommendation	2035
<p>AP Language and Composition is a college-level course for juniors following Honors English 10. This course engages students in becoming skilled readers of prose written in different periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. This reading and writing should make students aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way generic conventions and the resources of language contribute to effectiveness in writing. Transfer students must have been enrolled in Honors English in their former school. Successful complete of Honors English 9 and 10 are recommended. It is highly recommended that all students who complete the course take the AP Language and Composition exam in May. Students are required to complete a minimum of six extended writing assignments (three per semester) in order to receive credit for the class.</p>				

Course	Grades	Credits	Prerequisites	Course #
English 12	12	1	2030 – English 11 or 2035 – AP Lang/Comp	2040
<p>English 12 is designed to prepare students to be successful in an academic or professional setting after high school. The focus for English 12 is on European Literature form the Dark Ages to the 20th century. By the end of 12th grade, students will have become familiar with some of the major works and ideas of European Literature, have honed their skills of literary analysis, and will have written multiple research-based essays. Students are required to compete a minimum of six extended writing assignments (three per semester) in order to receive credit for this class.</p>				

Course	Grades	Credits	Prerequisites	Course #
English 12 DE (Dual Enrollment)	12	1	Must meet YC Accuplacer Score Requirement	2041
ENG 101 College Composition I		3 YC credits		
English 102 College Composition II		3 YC credits		
<p>English 12 DE (Dual Enrollment) focuses on composing expository and argumentative essays for specific audiences. Emphasis is on the processes of writing, reading and critical thinking with an introduction to research and documentation. The course includes extensive critical reading and writing. Second semester (102) fluency, literary analysis, and critical writing will be emphasized. Students will further develop research skills to write a critical, documented essay. A grade of C or better will earn English 101/102 credit at Yavapai Community College which is transferable to most colleges and universities.</p>				

Math Courses

Track	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Standard	Algebra 1	Geometry	Algebra 2	Discrete Math or DE College Math
University	Algebra 1 -OR- Geometry	Geometry/ Honors Geometry -OR- Algebra 2/ Honor Algebra 2	Algebra 2/ Honors Algebra 2 -OR- DE College Math -OR- DE Pre-Calculus	Discrete Math -OR- DE College Math -OR- DE Pre-Calculus -OR- DE Calculus
AP	Honors Geometry	Honors Algebra 2	DE Pre-Calculus	DE Calculus

Course	Grades	Credits	Prerequisites	Course #
Algebra 1	8 or 9	1	None	3010
Algebra 1 provides the students with the basic structures of algebra necessary for higher mathematics, science and technological endeavors. It introduces properties of the real number system. Emphasis is placed on operations and polynomials, factoring techniques, solving linear and quadratic equations, solving systems of equations, graphing functions, solving and graphing inequalities and working with rational and radical expressions.				

Course	Grades	Credits	Prerequisites	Course #
Geometry	9 or 10	1	3010 – Algebra 1	3020
Geometry is designed to help students discover the purpose and usefulness of geometry in real-world applications. Using the properties and tools of geometry, students explore, investigate and solve problems. Using both inductive and deductive reasoning, students learn to do geometric proofs. Algebra skills are built upon and practices throughout the course.				

Course	Grades	Credits	Prerequisites	Course #
Honors Geometry	9 or 10	1	3010- Algebra 1 with a B or higher or Teacher approval	3025
Honors Geometry explores the relationships, measurements, and properties of one, two and three dimensional objects. This course will emphasize the further development of skills, techniques, and connections to the concepts of geometry and extend the understanding of algebra to include coordinate geometry. Topics for the course include but are not limited to: foundations of geometry, proof and logic, congruence and similarity in triangles, polygons, circles, and transformations.				

Course	Grades	Credits	Prerequisites	Course #
Algebra 2	10-11	1	3010 – Algebra 1	3030
This course includes simplifying polynomial, rational, and radical expressions; solving quadratic, rational and radical equations; introducing functions and their representation, applying mathematics in real-world contexts and using appropriate technology.				

Course	Grades	Credits	Prerequisites	Course #
Honors Algebra 2	10-11	1	3010 – Algebra 1 with final grade of B or teacher approval	3035
Honors Algebra 2 is a math course in the study of algebraic expressions, equations, inequalities, exponential and logarithmic functions, discrete math topics, systems of equations, polynomials, probability and statistics, relations and trigonometric functions. This course complements and expands the mathematical content and concepts of Algebra 1.				

Course	Grades	Credits	Prerequisites	Course #
Integrated Math	11-12	1	Approved Personal Math Curriculum	3028
Integrated Math Applications (Personal Curriculum) Course description: This course is designed to review and continue the studies of Algebra and Geometry with their applications. Students will study the algebra topics of linear equations, inequalities, functions, and systems; quadratic, polynomial, radical, and exponential functions; and properties of exponents.				

Course	Grades	Credits	Prerequisites	Course #
Discrete Mathematics/Modeling	12	1	3030 – Algebra 2 or PMC	3040
Discrete Mathematics and Modeling is designed to help students continue to make connections and build relationships among algebra, arithmetic, geometry, and discrete mathematics. Topics include construction and using mathematical models, graph theory including Euler and Hamilton paths and circuits, matrix operations and their applications, consumer mathematics and critical thinking skills, including the study of symbolic logic.				

Course	Grades	Credits	Prerequisites	Course #
College Math DE (Dual Enrollment)	11 or 12	.5	3030 – Algebra 2 and Meet YC Accuplacer Score Requirement	3152
MAT 142 College Mathematics		3 YC credits		
Survey of mathematical topics and applications. Includes statistics, probability, exponential functions, finance, dimensional analysis and other selected discrete math topics. Note: Computer use and graphing calculator required (TI-83/84 recommended). Prerequisite: ACT Math score of at least 23, or an SAT Math score of at least 530, or a satisfactory score on the mathematics skills assessment.				

Course	Grades	Credits	Prerequisites	Course #
Elementary Statistics DE (Dual Enrollment)	11 or 12	.5 credits	3152 – College Math DE	3153
MAT 167 Elementary Statistics		3 YC credits		
Statistical tools and techniques used in research and general applications. Description of sample data, probability, and probability distributions, point and interval estimates of population parameters, hypothesis testing and correlation and regression. Note: Computer use and graphing calculator required (TI 83/84 recommended). Prerequisite: MAT 142 or 152 or satisfactory score on mathematics skills assessment.				

Course	Grades	Credits	Prerequisites	Course #
Pre-Calculus DE (Dual Enrollment) MAT 187 Pre-Calculus	11 or 12	1 credits 5 YC credits	3030 – Algebra 2 YC Accuplacer Score or grades of “B” or higher in Algebra, Geometry, and Algebra 2, and reading proficiency	3050

Topics from college algebra and trigonometry essentials to the study of calculus and analytic geometry, includes linear, quadratic, polynomial, rational, exponential, circular; and trigonometric functions, trigonometry, systems of equations, and matrices. Note: Computer use and graphing calculator required (TI-83/84 recommended. Use depends on the teacher’s discretion). **This class is Dual Enrollment with Yavapai College.**

Course	Grades	Credits	Prerequisites	Course #
Calculus 1 DE (Dual Enrollment) MAT 220 Calculus and Analytic Geometry I	11 or 12	.5 credit 5 YC credits	3050 – Pre-Calculus DE with a minimum grade of C-	3061

Introduction to calculus of single variable functions. Includes limits, the fundamental principles of differentiation and integration, techniques for finding derivatives of algebraic and trigonometric functions and applications of derivatives. Note: Computer use and graphing calculator required (TI-83/84 recommended).

Course	Grades	Credits	Prerequisites	Course #
Calculus 2 DE (Dual Enrollment) MAT 230 Calculus and Analytic Geometry II	11 or 12	.5 credit 5 YC credits	3061 – Calculus 1 DE	3062

Concepts, techniques and applications of integration, infinite series, and introduction to differential equations. Note: Computer use and graphing calculator required (TI-83/84 recommended).

Science Courses

Track	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Standard	Physical Science	Biology	Chemistry -OR- Physics	
Agricultural Science Track	Agriscience 1 -AND- Physical Science	Agriscience 2	Agriscience 3 -AND Recommended - Chemistry –OR- Physics	Agriscience 4
University 3-4 Science credits recommended	Physical Science	Biology –OR- Honors Biology	Chemistry -OR- Honors Chemistry -OR- Physics	Additional Elective Science Course of Choice
Advanced Placement (AP)	Physical Science	Honors Biology	Honors Chemistry -OR- Physics	AP Chemistry -OR- AP Biology

Course	Grades	Credits	Prerequisites	Course #
Physical Science	9	1	None	5015
<p>Physical Science is designed to familiarize students within the physical world in which they live. This includes 4 primary focus areas of: 1- Scientific inquiry, including the scientific method, measurements, graphing and dimensional analysis. 2- Chemistry, including atomic structure, bonding, inorganic nomenclature, and electromagnetic radiation. 3- Physics, including laws of motion, force, velocity, mass vs weight. 4- Earth and Space science, including an exploration of our solar system and beyond, as well as an in depth look at the Earth as a dynamic sphere is studied through the investigation of earthquakes, volcanoes, continental drifting, chemical/physical weathering and erosions. The main curricular focus will be on mastery of content associated with the performance objectives from the Arizona State Science Standards.</p>				

Course	Grades	Credits	Prerequisites	Course #
Biology	10	1	5015 Physical Science	5020
This course is designed to help students become aware of the major concepts of Biology including foundations of life, chemistry of life, cell structure and function, cellular energy, cell division, heredity, genetics, evolution, and ecology. The curricular focus will be on mastery of content associated with the objectives from the Arizona State Science Standards.				

Course	Grades	Credits	Prerequisites	Course #
Honors Biology	10	1	C or higher in 5010 - Physical Science	5030
This course is designed for the accelerated student to become aware of major concepts in Biology, including foundations of life, chemistry of life, cell structure and function, cellular energy, cell division heredity, genetics, evolution, ecology, and kingdoms of life. The curricular focus will be on mastery of content associated with the-objectives from the Arizona State Science Standards.				

Course	Grades	Credits	Prerequisites	Course #
AP Biology	12	1	5020 Biology or 5030 Honors Biology <u>AND</u> 5050 Chemistry or 5054 Honors Chemistry	5031
AP Biology is a college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions.				

Course	Grades	Credits	Prerequisites	Course #
Chemistry	11-12	1	5020 - Biology or 5030 – Honors Biology Algebra 2 (can be concurrent)	5050
Chemistry is the study of the composition of substances and the changes they undergo. Through varied classroom and laboratory experiences. Topics include stoichiometry, nomenclature, prediction of reaction products, thermochemistry, nuclear chemistry, chemical kinetics, equilibrium and other tenets of physical chemistry.				

Course	Grades	Credits	Prerequisites	Course #
Honors Chemistry	11-12	1	5020 - Biology or 5030 – Honors Biology Algebra 2 (can be concurrent)	5054
Chemistry course; presentation of general chemistry material is accelerated and more detailed to prepare students for the rigor of college-level coursework. Additional quantum theory, thermodynamics, kinetics, and equilibrium problem-solving, etc. are covered for enrichment and preparation for AP Chemistry.				

Course	Grades	Credits	Prerequisites	Course #
AP Chemistry	12	1	5050- Chemistry AND Instructor approval or 5054 – Honors Chemistry	5055

The academic objectives of this course are designed to be the equivalent of a first-year college chemistry course. AP Chemistry requires continual study, good note-taking skills, extensive time and effort, and excellent math ability and skills. Extensive laboratory work is a major component of the course. A primary goal of AP Chemistry is to prepare students to pass the AP Exam in May of each year and obtain college credit. As many as eight or nine credit hours in chemistry at each of the state universities may be earned through the AP exam if a score of 5 is achieved. Similar benefits are to be found at nearly 2000 universities in the U.S. and around the world. AP Chemistry is also accepted at the state universities as one of the three required lab sciences, even if the student has already taken the chemistry/honors chemistry course.

Course	Grades	Credits	Prerequisites	Course #
Physics: Mechanics/Motion	11-12	1	2 credits of college prep science Algebra 2 (can be concurrent)	5060

In this course, students will deepen and refine their knowledge on matter and energy gained through other science classes. The laws of motion, including kinematics, which describe how things move and dynamics, which explains why things move, are described conceptually and developed through numerous laboratory investigations. Simple machines that transfer energy are studied in detail. The principles of physical and mathematical modeling are used to develop patterns which underlie natural processes. Applications of topics covered will be explored in technological fields.

Social Studies Courses

Track	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Standard	World History	World History	US History	Government & Economics
University	None	World History or AP World History	US History or AP US History	Government & Economics
AP	None	AP World History	AP US History	Government & Economics

Course	Grades	Credits	Prerequisites	Course #
World History	9 - 12	1	None	4010
<p>This course prepares students to compare and contrast past cultures and civilizations and to identify how these civilizations have contributed to modern life. It introduces students to the development of human society with an emphasis on ideas that affect our lives today. The first semester focuses on Prehistory to the Renaissance. Second semester is focused on the French Revolution to the Modern Era.</p>				

Course	Grades	Credits	Prerequisites	Course #
AP World History	10– 12	1	Teacher recommendation	4015
<p>AP World History provides a clear framework of six chronological periods viewed through the lens of related key concepts and course themes, accompanied by a set of skills that clearly define what it means to think historically. Emphasis in the course is placed on developing four historical skills; crafting historical arguments from evidence, chronological reasoning, comparing and contextualizing, and historical interpretation and synthesis. The five course themes are 1: Interaction between Humane and the Environment, 2: Development and Interaction of Cultures, 3: State-Building, Expansion and Conflict, 4: Creation, Expansion, and Interaction of Economic Systems, 5: Development and Transformation of Social Structures.</p>				

Course	Grades	Credits	Prerequisites	Course #
US History	11	1	None	4020
<p>US History explores the history and the political economic development of the United States. First semester focuses on Early Civilizations through Reconstruction. Second semester focuses on the Industrial Age to Modern America.</p>				

Course	Grades	Credits	Prerequisites	Course #
AP US History	11	1	Teacher Recommendation	4025
<p>This college-level course studies the rich past of American history, explores key events, influential figures, and societal changes that have shaped the nation from pre-Columbian times to the present day. Students will analyze primary sources, engage in critical thinking, and develop historical writing skills in preparation for the mandatory College Board APUSH exam in May. This course fosters a deep understanding of the complexities of the American experience, encouraging students to draw connections between the past and present. Recommended for motivated students, strong readers and writers seeking a rigorous exploration of U.S. history.</p>				

Course	Grades	Credits	Prerequisites	Course #
Government	12	.5	None	4030
Economics	12	.5		4035
<p>Government: Students examine the philosophical foundations of the American political system. In addition, this course offers the basic constitutional structure of the United States. Aspects of this course focus on the Bill of Rights and the role of individual responsibilities to society.</p> <p>Economics: This course emphasizes the free-market system, with exposure to the global economy and current economic issues. Students examine the practical application of personal finance.</p>				

World Language Courses

Course	Grades	Credits	Prerequisites	Course #
Spanish 1	9-12	1	None	7510

The Spanish 1 course is based on the ACTFL World Language standard skills: listening, speaking, reading and writing. By the end of the course, students will be able to carry on a simple conversation and speak or write about culture and everyday life using basic vocabulary and grammatical structures

Course	Grades	Credits	Prerequisites	Course #
Spanish 2	10-12	1	7510 – Spanish 1	7520

Spanish 2 is a continuation of the foundation established in Spanish 1. Emphasis is on mastery of the basic grammatical structures, and increased communicative proficiency. Acquisition of functional vocabulary from Spanish 1 is expected. Students will be exposed to the past tense and irregular grammatical structures. Students will be expected to apply them in their writing and speaking. It is recommended this in-person course only be taken after successful completion of an in-person Spanish 1 course.

Fine Arts Courses – Performing and Visual

Course	Grades	Credits	Prerequisites	Course #
Chorale/Concert Choir	9-12	1	None	6200
<p>In this course, students learn how to read music, sing, and perform throughout the year. You do not need previous singing experience to take this class. Basic music theory, sight reading rhythms, and vocal production will be covered. Students will be involved with the musical review in January as well as learning songs from different genres of music to perform in the community and throughout the year. Participation at concerts and performances is expected and required.</p>				

Course	Grades	Credits	Prerequisites	Course #
Music Theory	9-12	1	None	6300
<p>This course will teach students how to develop the ability to recognize, understand and describe the basic materials and processes of music that are heard or presented in a score. Students will develop their skills in aural recognition, sight-singing, composition, and analysis. Skills developed in this course can give students the ability to test out of beginning level theory prerequisite college courses.</p>				

Course	Grades	Credits	Prerequisites	Course #
Performance Choir	10-12	1	6200 – Choir	6205
<p>This choir is auditioned and selected the year prior. Students must have completed one year of Concert Choir. Students will be performing college level music and focusing on advanced singing concepts. This group will have more community performances than concert choir. Participation at concerts and performances is expected and required.</p>				

Course	Grades	Credits	Prerequisites	Course #
Beginning Concert Band	9-12	1	None	(Assigning a New Course # because of Name Change)
<p>Beginning Concert Band is a course for students who want to learn how to play a woodwind or brass instrument. The course teaches fundamentals of music such as note reading, tone production, rhythm patterns, and music theory. The course also develops social skills and performance etiquette. Students participate in classroom activities and public MUHS concerts. No prior musical experience is necessary. This course is</p> <p>MANDATORY for all incoming students joining the band program. This class serves as prerequisite for Advanced Concert Band and Rock Ensemble (Jazz Ensemble).</p> <p><i>PLEASE NOTE:</i> Students who are enrolled in this class will need to attend the Verde Valley Band Instrument Rental/Information night. Grade level counselors will receive an enrollment form signed by both the parent and director for each student. This is done to not only ensure the academic success of every student, but parents/students will understand their responsibility in properly maintaining, traveling and performing on a school owned instrument. Parents will also be able to join Milano Music's Rent-to-Own program which is preferred.</p> <p><i>STUDENTS NEW TO THE DISTRICT:</i> All new students enrolled in the Mingus Union High School District are welcome to join the band department and should be placed in the beginning concert band class unless they have 2 years of band experience on their transcript. However- Students who do not have 2 years' experience may audition to be placed in our upper-level band classes.</p>				

Course	Grades	Credits	Prerequisites	Course #
Advanced Concert Band	10-12	1	Beginning Concert Band	(New Course # being assigned)
Admission to this class is based on auditions; director's approval is required. This course focuses on both the continuing musical training necessary to play a woodwind, brass or percussion instrument and the preparation and performance of music of various styles for public concerts and statewide adjudicated festivals. Grade level counselors will receive an enrollment form signed by the director for each student.				

Course	Grades	Credits	Prerequisites	Course #
Percussion Ensemble	9-12	1	None	(New Course # being assigned)
Percussion Ensemble is a course for students who want to learn how to play percussion instruments. This course teaches fundamentals of music such as note reading, tone production, rhythm patterns, and music theory. The course also develops social skills and performance etiquette. Students participate in classroom activities and public MUHS concerts. No prior musical experience is necessary. This course is MANDATORY for all incoming percussion students joining the band program. This class serves as prerequisite for Advanced Concert Band and Rock Ensemble (Jazz Ensemble).				

Course	Grades	Credits	Prerequisites	Course #
Rock Ensemble (Jazz Ensemble)	10-12	1	Beginning Concert Band	(New Course # being assigned)
Admission to this class is based on auditions; director's approval is required. This course focuses on both the continuing musical training necessary to play a woodwind, brass, string or percussion instrument and the preparation and performance of music of various styles in both Jazz and Classic Rock for public concerts and statewide adjudicated festivals. Grade level counselors will receive an enrollment form signed by the director for each student.				
Instruments Used Include: 2 guitars, 2 basses, 2 Percussionists, 2 pianists- Rhythm Section Winds- Saxophones, Trombones and Trumpets.				
Vocals: When appropriate, will be added through collaboration with students recommended by our Choir Director.				

Course	Grades	Credits	Prerequisites	Course #
Theatre Arts 1	9-12	1	None	6210
Theater Arts 1 is an acting class designed to guide students to finding characterizations, motivations, and help with improvisation through scenes, monologues, short plays, and self-written plays. The first part of this class teaches the basics of acting through theatre games and activities. The culmination of this class is to present a short one-act play. In addition, students will review professional performances and learn how to critique performers and help their peers progress throughout the semester.				

Course	Grades	Credits	Prerequisites	Course #
Theatre Arts 2	10-12	1	6210 – Theater Arts 1	6220
Theatre 2 is a more focused approach to acting. Students will participate in scenes, independent features, and hopefully the main stage shows. Students will learn various skills such as stage combat, characterization, improvisation, acting exercises, and environment interaction. They will also discover numerous ways to form characters and improve scenes. Improvisation is also a strong component of this class-so be prepared to laugh!				

Course	Grades	Credits	Prerequisites	Course #
Theatre Arts 3	11-12	1	6220 – Theater Arts 2	6240
Theatre 3 is a continuation of the concepts introduced in Theatre 2. While it will run concurrent with Theatre 2, Theatre 3 takes you a bit further along the acting process and starts looking into the world of directing. For some scenes, you will be directing a Theatre 2 scenes and adding technical elements to show your concept in a final performance. As will other theatre classes, you will be performing monologues, scenes, one-acts, patchwork, and plenty of improvisation games! However, since you have completed all the methods of Theatre 1 and Theatre 2, it will be time to form your own method of how to develop a character. Pulling form the other acting philosophies, develop your own system that works for you!				

Course	Grades	Credits	Prerequisites	Course #
Beginning Art	9-12	1	None	6010
In Beginning Art, two-dimensional and other drawing techniques are studied. The major emphasis is on drawing, but color techniques are included. The students are responsible for keeping a sketchbook and supplying their own materials.				

Course	Grades	Credits	Prerequisites	Course #
Photography	10-12	1	6010 – Beginning Art	6013
Photography class is an intermediate level class which offers art instruction through photographic techniques. This class introduces the exploration of the elements of art and the principles of design in a manner that allows them to express themselves photographically. Students are responsible for keeping a portfolio and supplying their own materials. Use of a cell phone for taking pictures is required.				

Course	Grades	Credits	Prerequisites	Course #
Intermediate Art	10-12	1	6010 – Beginning Art	6020
Intermediate Art offers and instruction-through a combination of pen and ink, charcoal/pastels, watercolor and acrylic paint. This class introduces exploration of color in Art. Through the use of these creative mediums, students gain and understanding of how to use the elements of art and principles of design in a manner that shows them to express themselves artistically. Students are responsible for keeping a sketchbook and supplying their own materials.				

Course	Grades	Credits	Prerequisites	Course #
Advanced Studio Art	11-12	1	6012 – Beginning Art or 6020 – Intermediate Art	6030
This class primarily focuses on concept rather than technique. It is assumed that students entering this class will have the strong foundations in technique that it takes to produce conceptually original art works of the highest caliber. This course serves as a gateway to Advanced Placement Studio Art. Students are responsible for supplying a sketchbook along with any other supplementary materials beyond what the school can provide.				

Course	Grades	Credits	Prerequisites	Course #
AP Studio Art	12	1	6030 – Advanced Studio Art	6035
The AP Studio Art program is intended for highly motivated students who are seriously interested in studio art and have completed Advanced Art or have instructor approval in order to achieve AP Studio Art credit students must complete additional work outside class in order to complete a portfolio. The completed portfolio will contain a minimum of 29 works of art. This work can stem from Beginning Art through AP Art. The student's final evaluation is based not upon a written exam, but rather on this portfolio. Each piece will be digitally photographed and then evaluated by the College Board.				

Physical Education Courses

Course	Grades	Credits	Prerequisites	Course #
Boys PE/Health Girls PE/Health	9	1	None	7010 7011
<p>This course is designed to educate individuals on the importance of physical activity and health. Physical education will include activities such as proper stretching techniques, cardiovascular endurance and an introduction to basic skills in a variety of team and individual sports. Health education will focus on concepts such as; nutrition, human body systems, drug education and other health aspects. Health education will also help students learn specific lifestyle skills they can use beyond the classroom.</p>				

Course	Grades	Credits	Prerequisites	Course #
Sports Performance	10-12	1	P.E.	7050
<p>Students will participate in activities designed to improve their physical fitness. These will include activities in the areas of cardiovascular fitness, flexibility, muscular strength and endurance. Fitness testing will be included. The students will be shown lifts, safe spotting techniques and how to follow designed programs. This course may be repeated for credit with instructor approval.</p>				

Course	Grades	Credits	Prerequisites	Course #
Advanced Sports Performance (4 th ,5 th Hour)	10-12 Coach Approval	1	Coach approval	7050
<p>Sports Performance is designed for athletes who are playing sports at Mingus Union High School. This course provides a supervised and physiologically sound weight program which aids in the prevention of athletic injury, increases athletic performance, and promotes self-confidence and self-esteem. This course also provides the opportunity for athletes to practice speed, agility, and conditioning skills in an outside setting. This course may be repeated for credit with instructor approval.</p>				

Career and Technical Education Courses

Agricultural Science

Course	Grades	Credits	Prerequisites	Course #
Agricultural Science 1	9-12	1	None	9010

This course is the introductory class in the Agricultural Program. Classroom instruction includes plant science, small animal production, greenhouse production, environmental studies, plus leadership and team building. Students in this class enjoy a hands-on experience. Skills are tested in the many contests the FFA National Organization has to offer. Students are required to have an individual project related to agriculture to promote work ethic and enhance workplace skills. Examples of these projects are raising animals for sale, developing gardens, raising fish, agriculturally related science experiments, etc. Outside-of-class projects are called SAE's (Supervised Agricultural Experiences) are required in order for students to extend their learning and develop their work ethic and workplace skills. Participation in FFA is mandatory and is a part of the state required curriculum.

Course	Grades	Credits	Prerequisites	Course #
Agricultural Science 2 DE (Dual Enrollment)	10-12	1	9010 – Agricultural Science 1	9020
AGE 100 Introduction to Equine Science		4 YC Credits		
AGS 120 Introduction to Animal Industry		4 YC Credits		

This course covers the biological world as explored through hands-on labs. This course covers the advanced study and practices of livestock which include horses, swine, cattle, sheep and poultry. Units covered in this class include equine science, ecology, plant and animal genetics, and livestock production. Outside-of-class projects called SAE (Supervised Agricultural Experience) are required in order for students to extend their learning and develop their work ethic and workplace skills. State Biology Standards are taught through a full year of Applied Biological Systems. Participation in FFA is mandatory and is a part of the state required curriculum. **Students completing a full year of Agriscience 2 will earn the equivalent to a Biology credit accepted at all Arizona Universities.**

Course	Grades	Credits	Prerequisites	Course #
Agricultural Science 3 DE (Dual Enrollment) AGS 261 Aquaculture Science	11-12	1 4 YC Credits	9020 – Agricultural Science 2	9030

Technical information demonstrations and hands-on practicum will be presented in the above course subject areas. Students are required to select an individual project related to agriculture to promote work ethics and enhance workplace skills (SAE). This course also includes an introduction to the aquaculture and fisheries industry and the related career opportunities. Topics include ecology, basic fish culturing environments, species identification of fresh and saltwater fish, fish biology, disease prevention and treatments and fish feeds and feeding techniques. DE students will visit Bubbling Ponds in Page Springs to harvest endangered species for reintroduction in native waterways and participate in Trout in the Classroom. Participation in FFA is mandatory and is a part of the state required curriculum.

Course	Grades	Credits	Prerequisites	Course #
Agricultural Science 4 DE (Dual Enrollment) AGS 120 Introduction to Animal Industry	12	1 4 YC Credits	9030 – Agricultural Science 3	9040

This course is an advanced level course and a continuation of the Agriscience curriculum. Students are required to select an individual project related to agriculture to promote work **ethics** and enhance workplace skills (SAE). Emphasis is on greenhouse production, sustainability, and college and career readiness. The course covers veterinary science with an emphasis on lab, surgical, and clinical practices. Proper use of veterinary medicine and calculations as well as anatomy of small and large animals. Participation in FFA is mandatory and is part of the state required curriculum. **Students that complete Agriscience 4 will earn a science credit that is accepted by Arizona Universities.**

Automotive Technology

Course	Grades	Credits	Prerequisites	Course #
Auto Technology 1	9-12	1	None	9310

This course provides students with a foundation of automotive theory to progress into more advanced sections of auto such as in Auto 2 and Auto 3. This course begins with safety in the shop environment and careers in the industry then progresses into a basic understanding of the complete automobile. Content includes: maintenance, tools, fasteners, tires, brakes, alignment, steering, suspension, basic electricity and engines. This course is a prerequisite for Auto 2. Students in Auto 1 are required to actively participate in our Auto Club/ Skills USA at MUHS.

Course	Grades	Credits	Prerequisites	Course #
Auto Technology 2	10-12	1	#9310	9320
<p>After gaining a strong foundation for the automobile in Auto 1, students will have the opportunity to apply their knowledge and understanding the operation and repair of steering, suspension, brakes and alignment. This course is a prerequisite for Auto 3. Passing Auto 1 with C's or better in both semesters is a pre requisite for Auto 2. Students in Auto 2 are required to actively participate in our Auto Club/Skills USA at MUHS.</p>				

Course	Grades	Credits	Prerequisites	Course #
Auto Technology 3	11-12	1	#9320	9330
<p>In Auto 3, students use their skills acquired in previous courses to understand advanced technology used in modern automobiles, students who are in Auto 3 are provided the opportunity to attend competitions to test their skill in automotive knowledge and leadership. Instruction includes: engine rebuilding and repair, electric systems diagnostics. Students who successfully pass all their courses are considered completers in automotive technology. Passing Auto 2 with C's or better in both semesters is a pre requisite for Auto 3. Students in Auto 3 are required to actively participate in our Auto Club/Skills USA at MUHS.</p>				

Business Management

Course	Grades	Credits	Prerequisites	Course #
Business Management	9-12	1	None	9100
<p>The Business Management instructional program prepares students to plan, organize, direct, and control the functions and processes of a firm or organization. Students in the introductory class will be exposed to many facets of starting a business. This will include accounting, personal finance, budgeting, ethics, management, marketing and employability skills. Students will also explore career opportunities, and learn to apply problem solving and decision making skills to various business related situations. Business concepts such as checking accounts, saving and investing, personal finance are integrated throughout the course in order to help students prepare for the economic role of consumer, worker, and citizen. Students enrolled in the course can join Future Business Leaders of American (FBLA), which is the career and technical student organization associated with the Business Management program. FBLA opportunities include leadership development, field trips, travel and competition.</p>				

Course	Grades	Credits	Prerequisites	Course #
Advanced Business	10-12	1	9100 – Business Management	9110
<p>This class will expand upon the knowledge learned in Business Management 1. Students will learn and demonstrate marketing concepts. Students will be able to explain the general management practices in use at the different levels of management with in a business, small or large. Students will learn Human Resource Management functions and how health, safety, and ethics play an important role in the productivity of the workplace. Students will learn project management functions and how to formulate a simple business plan. Students will learn addition details on how accounting information is used to provide financial analyses to make informed business decisions. Students will learn about the various forms of credit and what determines a credit history. Students will also learn about the risk and return of short term and long term investments. Students enrolled in this course can also participate in FBLA.</p>				

Digital Filmmaking

Course	Grades	Credits	Prerequisites	Course #
Digital Filmmaking 1	9-12	1	None	9810

Digital Media/Filmmaking 1 focuses on learning the different features of digital software, multi-media equipment, and basic video production which includes the production processes, including script writing, planning for a short video shoot, and the use of audio and visual equipment.

Course	Grades	Credits	Prerequisites	Course #
Digital Filmmaking 2	10-12	1	9810 – Digital Filmmaking 1	9820

Digital Media/Filmmaking 2 will reinforce the skills learned in Digital Media Filmmaking 1 and provide advanced level instruction for more complex productions/projects, photo editing through the Photoshop software as well as video creation and editing through Final Cut Pro and Adobe Premiere using high tech media equipment.

Course	Grades	Credits	Prerequisites	Course #
Digital Filmmaking 3	11-12	1	9820 – Digital Filmmaking 2	9830

Digital Media/Filmmaking 3 students will work independently and proficiently in Photoshop and Filmmaking by applying the skills of the principles of design. Students will animate graphics in 2D and 3D under the guidance of the instructor.

Course	Grades	Credits	Prerequisites	Course #
Digital Filmmaking 4	12	1	9830 – Digital Filmmaking 3	9840

Digital Media/Filmmaking 4 students will demonstrate proficiency in multimedia skills and filmmaking skills independently. The goal is to create professional level projects in the community, businesses and organizations, short films, and graphic design projects for various competitions.

Coding

Course	Grades	Credits	Prerequisites	Course #
Coding	9-12	1	None	9150

This course begins the progression of the Coding in Python sequence, introducing the early fundamentals of coding. It blends detailed technical knowledge with engaging coursework, allowing students free-range creativity without sacrificing academic rigor. The course emphasizes logical thinking and problem-solving, critical thinking, and real-world coding application. Students taking this course will receive the basic tools and building-blocks to code not only the assigned programs, but also to design and develop their own unique games and interactive experiences.

Course	Grades	Credits	Prerequisites	Course #
Coding 2	10-12	1	9150	

This course builds on the basics learned in Coding 1, rounding out the students' knowledge of CS coding fundamentals. The course introduces image-based graphics, allowing students to produce the sorts of familiar games and dynamic interactive programs that they are already enthusiastic about. Emphasis is on code organization and the process of designing larger programs.

Drafting and Design Technology

Course	Grades	Credits	Prerequisites	Course #
CADD 1	9-12	1	Algebra 1 preferred	9410
<p>This course will provide you with an introduction to drafting knowledge and skill. You will learn about the various employment opportunities in the CADD field. Two-dimensional style drawing techniques will be used to create single and multi-view drawings. International mechanical drawing standards are emphasized. AutoCAD2010 is the software used. This course is required if you want to take CADD 2 or CADD 3. Enrollment in CADD 1 allows for participation in Skills USA.</p>				

Course	Grades	Credits	Prerequisites	Course #
CADD 2	10-12	1	9410 – CADD 1	9420
<p>CADD 2 will give you the opportunity to develop three-dimensional drawing skills through the production of full-color solid models and advanced 2-dimensional drawing. These solid objects will then be physically produced with the 3-dimensional printer. Solid Works 2018 solid modeling software is used. Enrollment in CADD 2 allows for participation in Skills USA.</p>				

Course	Grades	Credits	Prerequisites	Course #
CADD 3	11-12	1	9420 – CADD 2	9430
<p>You will learn advanced applications of computer-aided drafting with special emphasis placed upon Architectural Design. You will design and draw a complete set of house plans. AutoCAD 2011 is the software used. A state end-of-course examination is required.</p>				

Course	Grades	Credits	Prerequisites	Course #
CADD 4	12	1	9430 – CADD 3	9440
<p>You will learn advanced applications of computer-aided drafting with special emphasis placed upon Advanced Solid Modeling. Solid Works 2010 is the software used. You will further your solid modeling skills through advanced projects with an emphasis on motion and functionality of design. Participation in Skills USA is encouraged. A state end of course examination is required. A national Solid Works certification examination is available upon request. An examination fee is required.</p>				

Health Services

Course	Grades	Credits	Prerequisites	Course #
Sports Medicine 1	10-12	1	None	9451
<p>Sports Medicine 1 is recommended for students who are considering going specifically into sports medicine or into any health care or medical related field. Emphasis will be placed on athletic training and orthopedic medicine. The purpose of this course is to provide students with an anatomical and physiological understanding of the major systems of the human body: skeletal, muscular, respiratory, circulatory systems, anatomical disorders and exercise physiology. The prevention, cause/effect, treatment, and rehabilitation of athletic injury, standard first aid, athletic training procedure, and CPR will be taught.</p>				

Course	Grades	Credits	Prerequisites	Course #
Sports Medicine 2	11-12	1	9451 – Sports Medicine 1	9452
<p>Sports Medicine 2 is recommended for students who are considering going specifically into sports medicine or into any health care or medical related field. The student must have taken and completed Sports Medicine 1. Emphasis will be placed on expanding the knowledge and skills attained in Sports Medicine 1.</p>				

Course	Grades	Credits	Prerequisites	Course #
Sports Medicine 3	12	1	9452 – Sports Medicine 2 and Instructor Approval	9453
<p>Sports Medicine 3 is recommended for students who have a strong career interest in the health care or medical related fields. Pursuing a certification as a clinical medical assistant is included. An emphasis on furthering career decisions and community based learning will take place as well.</p>				

Stagecraft

Course	Grades	Credits	Prerequisites	Course #
Stagecraft 1	9-12	1	None	6230
This course is an introduction of the behind the scenes activities of theatre. Students will learn the fundamental hierarchy, terminology, history, safety and basic skill sets that make a production happen. This is not an acting class. Content of this course will include scenery construction, scene painting, lighting, sound, and rigging. The curriculum of this class will be geared towards a “hands-on” experience in the production of our main stage shows.				

Course	Grades	Credits	Prerequisites	Course #
Stagecraft 2	10-12	1	6230 – Stagecraft 1	6231
This course will be geared toward the in depth study of the technical theatre. The students will explore scenery, lighting, costumes and sound for theatre productions. Advanced construction scene painting and rigging techniques will be introduced and used in our main stage productions. Lighting, sound, and costuming are covered in this course through extensive practical application.				

Course	Grades	Credits	Prerequisites	Course #
Stagecraft 3	11-12	1	6231 – Stagecraft 2	6233
This course is designed as an in depth training for those that have completed Technical Theatre 1 and 2. Special emphasis will be lighting, sound and scenery. Mechanics will be explored in the curriculum as it pertains to the moving of scenery. Students enrolled in Technical Theatre 3 will take on further responsibilities as it pertains to setting up the smaller shows that occur in the theatre and around campus.				

Course	Grades	Credits	Prerequisites	Course #
Stagecraft 4	12	1	#6233 – Stagecraft 3	6235
This course is designed for students who have successfully completed Stagecraft 1, 2, and 3. The emphasis of this course will be student management of mainstage production in the areas of scenery, lighting, technical direction and sound. Student technical direction and implementation of an entire production is the desired conclusion of this fourth level class.				

Welding Technology

Course	Grades	Credits	Prerequisites	Course #
Welding 1 DE (Dual Enrollment)	9-12	1	None	9510
WLD 130 Oxyacetylene		4 YC Credits		
Students will be introduced to four main welding processes, SMAW, GMAW, FCAW, and GTAW. Students will also learn general shop safety, thermal cutting processes, weld symbols, print reading and measuring. Upon completion of this course, students will be able to perform general entry level structural welding for fabrication and machine shops. Welding 1 students will complete the Skills USA PDP Level 1.				

Course	Grades	Credits	Prerequisites	Course #
Welding 2 DE (Dual Enrollment) WLD 140 Arc I WLD 145 Arc II	10-12	1 4 YC Credits 4 YC Credits	9510 – Welding 1	9520
Students will be extending their knowledge of the four main welding processes, SMAW, GMAW, FCAW, and GTAW. Students will also learn general shop safety, thermal cutting processes, weld symbols, print reading, and measuring. Upon completion of this course students will be able perform general entry level structural welding for fabrication and machine shops. Welding 1 students will compete the SkillsUSA PDP Level 1.				

Course	Grades	Credits	Prerequisites	Course #
Welding 3 DE (Dual Enrollment) WLD 156 Blueprint Reading WLD 130 Oxyacetylene	11-12	1 4 YC Credits 4 YC Credits	9520 – Welding 2	9530
Students will improve their skills in the four main welding processes, SMAW, GMAW, FCAW, and GTAW. Students will also learn general shop safety, thermal cutting processes, weld symbols, print reading and measuring. Upon completion of this course, students will be able to perform general entry level welding for fabrication and machine shops. Welding 3 students will complete the SkillsUSA PDP Level 3. Students can earn the Structural Welding Certificate.				

Course	Grades	Credits	Prerequisites	Course #
Welding 4 WLD 210 Gas Metal Arc Welding WLD 250 Welded Metal Fabrication	12	1 4 YC Credits 4 YC Credits	9530 – Welding 3	9540
Students will improve their skills in the four main welding processes, SMAW, GMAW, FCAW, and GTAW. Students will also learn general shop safety, thermal cutting processes, weld symbols, print reading and measuring. Upon completion of this course, students will be able to perform general entry level welding for fabrication and machine shops. Welding 4 students will complete the SkillsUSA PDP Level 4. Students can earn the GMAW and GTAW Certificate.				

VACTE Central Campus Career and Technical Education Construction Technology

Course	Grades	Credits	Prerequisites	Course #
Construction Technology 1 & 2 (Full School Year Course)	10-12	3 HS Credits	VACTE Application and approval	9200
CBT 100 Basic Carpentry I		8 YC Credits		
CBT 110 Basic Carpentry II		8 YC Credits		

This course will introduce and train students in the basic skills necessary to pursue a career in construction. This course covers foundations, flooring, framing, plumbing, electrical, sheet rock, windows, doors, cabinetry, blueprint reading, use of hand tools, surveying, and construction math. Models to full-sized partitions are constructed in the shop. Projects at actual job sites are included with possible paid internship. Upon completion of this course, students will have the opportunity to earn 16 dual enrolled credits from Yavapai College and a Yavapai College certification in Construction Technology. The student will test for certification in Forklift and Heavy Equipment Operations, OSHA-10, First Aid/CPR/AED certification and Certification by the National Center for Construction Education and Research (NCCER) Core and Level 1 Construction Skills Industry Certification. Courses are held off campus at VACTE in Cottonwood. Course Times: Monday-Thursday, 7am-9:35am or 1:20pm-3:50pm plus approximately 8 Saturdays. Students must provide their own transportation.

Course	Grades	Credits	Prerequisites	Course #
Construction Technology 3 & 4 (Full School Year Course)	11-12	3 HS Credits	Construction Technology 1	9201
CBT 115 Residential Electrician		3 YC Credits		
CBT 120 Residential Plumber		5 YC Credits		

This course will teach advanced skills necessary to pursue a career in construction. This course covers foundations, flooring, framing, plumbing, electrical, sheet rock, windows, doors, cabinetry, blueprint reading, use of hand tools, surveying, and construction math. Models for full-sized partitions are constructed in the shop. Projects at actual job sites are included. An internship (possibly paid) in construction with a local construction contractor will be made available. Upon completion of this

course, students will have the opportunity to test for certification in Forklift and Heavy Equipment Operation, OSHA-10, First Aid/Adult CPR certification, and Certification by the National Center for Construction Education and Research (NCCER) Level 1 & 2 Construction Skills. The opportunity to earn up to 12 dual enrollment credits from Yavapai College in Electrical and Plumbing. Classes are held off campus at the VACTE campus in Cottonwood. Course Times: Monday– Thursday, 7:00 am -9:35 am or 1:20 pm - 3:50 pm plus approximately 8 Friday or Saturdays. Students must provide their own transportation.

Cosmetology (Hairstyling)

Course	Grade	Credits	Prerequisites	Course #
Cosmetology 1 & 2 (Full School Year Course of 500+ Hours and Two Years to Complete the Full Program to be qualified to test for the Arizona State Cosmetology and Barbering State Board Certification)	11 and Possible 12 grade (12 th grade students must commit to coming back for a full year after graduation to complete the program. Juniors will have priority)	3 HS Credits	VACTE Application, Interview and VACTE Final Approval	9200

Cosmetology I & II: This course will introduce and train students in the basic to advanced skills necessary to pursue and sit for a state certification from Arizona Board of Cosmetology & Barber 1000-hour Hairstyling Certification. The Cosmetology Program is a two-year program that students will take during their 11th and 12th grade school years.

Students will be introduced to the physical structure of hair and how it grows. Students will apply the guidelines for proper shampooing, conditioning and rinsing for practical applications. Students will learn the proper procedure and techniques needed to complete successful scalp treatments on a variety of clients and scalp conditions Students will be introduced to all aspects of cosmetology past and present, including communication, professionalism, safety and sanitation. Students have a brief overview of many different salon services by manikin demonstration. This class explains the basics of hair design, finger waving, pin curls, and what tools are used to create desired results. Students will then learn practical application of all the classic techniques & elements of hairstyling. This course will also introduce the basics of haircutting. Students will learn about the tools needed to achieve basic haircuts, as well as how to use each tool. Body position and hand elevation will be stressed during these classes. Students will practice performing these haircuts repeatedly until standards are met.

Students will have the opportunity to explore wigs, hair extensions, braids and weaves. This course will explain how to measure for a wig. This course prepares the student for chemical texturizing services for hair. Students will learn the basics of hair relaxing while using mock chemicals and how

to prepare the hair to receive chemical processes. Students will apply actual chemicals to process the manikin hair to see various results. This class teaches the student all the hair color basics. Students will learn hair color chemistry and consultation styles. Included in this course is the color wheel and how to use it to produce beautiful hair color results.

Courses are held off campus at the VACTE Cosmetology Building located at 418 N. 15th St. in Cottonwood. Course Times: Monday-Thursday, 7:00 am-9:35 am or 1:20 pm-3:50 pm plus approximately 12 Saturdays throughout the year for clinicals. Students must provide their own transportation.

Course	Grade	Credits	Prerequisites	Course #
Cosmetology 3 & 4 (Full School Year Course of 500+ Hours)	12	3 HS Credits	Successful completion of Cosmetology 1 – 2 with a 79% and at least 500 hours of class instruction and clinicals from previous year	9201

Cosmetology III & IV: This course reinforces previously taught techniques and expands upon them. Students will advance their haircutting skills to include texturizing, razor cutting and style design. This course will also cover the advanced techniques needed to chemically change the structure of the hair. This course reveals more in-depth color information behind hair color. Students will use their skills from previous courses to consult, recommend and achieve professional color results on all different types of hair. Students will be able to confidently complete all basic cuts as well as add elements of style into a cut to personalize them. Courses are held off campus at the VACTE Cosmetology Building located at 418 N. 15th St. in Cottonwood. Course Times: Monday-Thursday, 7am-9:35am or 1:20pm-3:50pm plus approximately 12 Saturdays throughout the year for clinicals. Students must provide their own transportation.

Culinary Arts I

Course	Grades	Credits	Prerequisites	Course #
Culinary Arts 1 & 2 (Full School Year Course)	11-12	3 HS Credits	VACTE Application and approval	9900
CUL 101 Culinary Principles		4 YC Credits		
CUL 102 Culinary Fundamentals: Hot Foods		4 YC Credits		

CUL 103 Culinary Fund: Breakfast and Garde Manage	4 YC Credits		
CUL 104 Culinary Fund: Baking and Pastry	4 YC Credits		

This course will introduce students to the fundamental skills needed for employment in the restaurant industry. Students will be introduced to culinary concepts and terminology, kitchen safety and sanitation, equipment usage, food costing and theory, production of culinary projects and various cooking techniques. Students will receive up to 16 credits through Yavapai College. Successful completion of these 16 credits will earn the students a Culinary Arts Fundamentals Certificate from Yavapai College. Upon completion of this course, students will have the opportunity to test for certification for SERV Safe Manager. Classes are held off campus at the Yavapai College Sedona Campus. Course Times: Monday-Thursday, 7am-9:35am or 1:30pm-3:55pm. Students must provide their own transportation.

Education Professions (Teacher Training)

Course	Grades	Credits	Prerequisites	Course #
Teacher Training 1 & 2 (Full School Year Course)	11-12	3 HS Credits	VACTE Application and approval Pass the Reading Proficiency for YC	9211
EDU 200 Intro. To Education		3 YC Credits		
EDU 210 Cultural Diversity in Education		3 YC Credits		
EDU 222 Intro to the Exceptional Learner		3 YC Credits		
EDU 230 Language & Literacy Experience		3 YC Credits		

Teacher Training I & II: This course is designed to introduce students to the knowledge and skills necessary to be successful in the exciting world of teaching. Students will explore learning styles, multiple intelligences, stages of development, creative projects, and education of students of all ages. Creation, design, and implementation of lessons will be realized by teaching at various educational institutes of student interest. **Students will be immersed in a teaching experience of the grade levels the student**

desires during the practicum portion of the course two to three days a week. Upon completion of the course the student will have the opportunity to earn up to 12 dual enrolled credits from Yavapai College in education which will transfer to the University teacher training programs. The students will have the opportunity to earn Para-professional in Education Certification (Praxis), Level 1 State Fingerprint Certification, and CPR/First Aid/AED Certification. Classes are held off campus at the VACTE campus in Cottonwood. Course Times: Monday-Thursday, 7am-9:35am. Students must provide their own transportation.

Course	Grades	Credits	Prerequisites	Course #
Teacher Training 3 & 4 (Full School Year Course) 12 Additional College Education Courses will be offered to the students	12	3 HS Credits 12 YC Credits	VACTE Application and approval Successful completion of Teacher Training 1 & 2	9212

Teacher Training III & IV: This course will continue to grow the students into successful teachers. The students will earn an additional 12 college credits in dual enrollment. The courses will be EDU 240 - Family & Comm Partnerships, ECE 234 - Child Development, EDU 180 - Technology in Education, and Arizona and US Constitution. **They will practice teaching and possible paid internship in an educational instruction practicum three days a week.** Students will be immersed in a teaching experience of the grade levels the student desires during the practicum portion of the course. Students can continue at Yavapai College and complete an Associates of Arts in Elementary Education. The students can then transfer to a state university to complete a bachelor's degree in Elementary Education and earn an AZ State Teaching Certificate. Students have a potential opportunity to enter a program for Teacher Certification that would allow for loan forgiveness with a commitment to 5 years of teaching in Arizona. Course Times: Monday-Thursday, 1:20 pm to 3:45 pm. Students must provide their own transportation.

Fire Science

Course	Grades	Credits	Prerequisites	Course #
Firefighter Certification Academy 1 & 2 (Full School Year Course) FSC 104 Hazardous Materials	12	3 HS Credits 3 YC credits 12 YC credits	VACTE Application and approval	9920

FSC 105 Firefighter Certification Academy		3 YC Credits		
FSC 155 Basic Wildland Firefighting				
<p>Firefighter Certification Academy – Students will be introduced to the essentials of firefighting including fire department operations, firefighting equipment, and safety with an emphasis on the chemistry of fire, techniques of firefighting and utilization of equipment in fire suppression. Upon completion of this course, students will have the opportunity to test for Hazardous Materials Certification, State Fire Fighter I & II Certification, S130 and S190 Forest Service Wildland Certification, IS100 FEMA Incident Command and CPR/First Aid/AED Certification. This course is Dual Enrolled through Yavapai College and will allow students to earn 18 college credits. This course is held off campus at the Verde Valley Fire Center in Cottonwood. Course Times: Monday-Thursday, 7:00 am – 9:35 am plus approximately 8 Saturdays. Students must provide their own transportation.</p>				

Nursing Services (CNA)

Course	Grades	Credits	Prerequisites	Course #
Certified Nursing Assistant (This is a one semester course but highly recommend to take with Phlebotomy and make it a Full Year Course.)	11 or 12	1.5 HS Credits and up to 3 HS Credits	VACTE Application and approval Pass the YC Reading Proficiency and Math Proficiency assessment.	9050
AHS 114 – Nursing Assistant		3 YC Credits		
AHS 114 CNA Clinical Internship		3 YC Credits		
Student will be able to earn the CNA Completion Certificate which is a prerequisite for the RN program at YC.				

This course is designed for students interested in the nursing field but also recommended for students considering going into any health or medical related field. This class includes classroom, lab practice and “hands-on” clinical instruction at a local hospital and nursing home. Focus will be on basic nursing assistant skills, resident/patient needs and rights, medical terminology, communication and ethical/legal aspects of care and emergency procedures. Students will also earn a Health Care Provider CPR card. Passing this course qualifies students to take the State Certified Nursing Assistant exam leading to state certification **and will fulfill one of the prerequisite requirements for the Registered Nursing program at Yavapai College.** CNA students meet on site at the Cottonwood Verde Valley Medical Center for training. Highly recommended to take it with the Phlebotomy/Lab Assistant course the opposite semester. Course Times: Monday – Thursday, 7am-9:35am or 1:20pm-3:55pm plus approximately 4 Saturdays. Students must provide their own transportation.

Phlebotomy & Lab Assistant

Course	Grades	Credits	Prerequisites	Course #
Phlebotomy and Lab Assistant (Only one semester but recommend registering for CNA so it is a full school year course)	11 or 12	1.5 HS Credits	VACTE Application and approval Pass the YC Reading Proficiency and Math Proficiency assessment.	9052
AHS 100 – Fundamentals of Health Care		3 YC credits		
AHS 105 – Phlebotomy		2 YC credits		
PSY 101 – Introductory Psychology (Transferable for any BA or AA degree)		3 YC credits		

This course is designed for students interested in medical laboratory assistant/phlebotomy work and recommended for students considering going into any health or medical related field. Students are prepared to perform clinical procedures in a laboratory setting including performing phlebotomy skills, various laboratory tests, equipment operation and maintenance, sterilization, and safety. Students are concurrently enrolled with Yavapai College and receive 5 college credits leading toward Phlebotomy Technician certification. **The PSY 101 course is transferable to all Universities and Community Colleges in Arizona and out of state.** Highly recommended to take it with the Certified Nursing Assistant course the opposite semester. Classes are held at the Clarkdale Yavapai College

campus Times: Monday – Thursday, 7am-9:35am or 1:30pm-3:55pm. Students must provide their own transportation.

Law Enforcement and Dispatch

Course	Grades	Credits	Prerequisites	Course #
Law Enforcement-Dispatch 1 & 2 (Full School Year Course)	11 & 12	3 HS Credits	VACTE Application and approval	9650
AJS 230 - The Police Function		3 YC Credits		
AJS 200 - Current Issues in Criminal Justice		3 YC Credits		
AJS 270 - Community Relations		3 YC Credits		

This course will introduce and train students in the basic to advanced skills necessary to pursue a career in Law Enforcement and Emergency Telecommunications. This course covers instruction and hands-on practice in law enforcement history and theory, operational command leadership, proper weapon techniques and skills, forensics science, investigation/detective skills, administration of public police organizations, labor relations, incident response strategies, legal and regulatory responsibilities, prison guard skills and dispatch skills in police and emergency management services. Practice on real life situations related to dispatch and law related situations with computer generated simulations. Upon completion of this course, students will have the opportunity to test for certification in APCO-Public Safety Telecommunication Dispatcher and Arizona Dept. of Public Safety-Security Guard Certification. Students will have the opportunity to earn 12 credits towards the Yavapai College criminal justice AA degree. Classes are held off campus at the VACTE campus in Cottonwood. Course Times: Monday-Thursday, 7am – 9:35am and possible 1:20 pm – 3:45 pm. Students must provide their own transportation.

Course	Grades	Credits	Prerequisites	Course #
Law Enforcement-Dispatch 3 & 4 (Full School Year Course)	12	3 HS Credits	VACTE Application and approval	9651
AJS Course to TBD		3 YC Credits	Successful completion of Law Enforcement 1 & 2	
AJS Course to TBD		3 YC Credits		
AJS Course to TBD		3 YC Credits		

AJS Course to TBD				
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This course will add to the foundation of Law Enforcement provided in Law Enforcement 1 & 2. **Students will participate in ride along with police officers in the Verde Valley and Internships with Dispatch.** Also, they will be able to train and observe in a 911 call center. Practice on real life situations related to dispatch and law related situations with computer generated simulations in arrest and shooting practice skills. Upon completion of this course, students will have the opportunity to test for certification in APCO-Public Safety Telecommunication Dispatcher and Arizona Dept. of Public Safety-Security Guard Certification. Students will have the opportunity to earn 12 additional credits towards the Yavapai College criminal justice AA degree. The classes are held off campus at the VACTE campus in Cottonwood. Course Times: Monday-Thursday, 7am – 9:35am and possible 1:20 pm – 3:45 pm. Students must provide their own transportation.

Electives

Course	Grades	Credits	Prerequisites	Course #
AP Computer Science	10-12	1	None	9620
<p>Students will learn to design and implement computer programs that solve problems relevant to today's society, including art, media, and engineering. AP Computer Science A teaches object-oriented programming using the Java language and is meant to be the equivalent of a first semester, college-level course in computer science. It will emphasize problem solving and algorithm development, and use hands-on experiences and examples so that students can apply programming tools and solve complex problems. Pre-requisite: Algebra I; Algebra II is recommended. This course will prepare students for the end-of-course AP Exam.</p>				

Course	Grades	Credits	Prerequisites	Course #
AP Computer Principles	10-12	1	None	9621
<p>AP Computer Science Principles is a complete, full-year course that focuses on the 5 "Big Ideas" in computer science using project-based approaches. The course introduces students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity, and how computing impacts our world. Students will develop the computational thinking skills needed to fully exploit the power of digital technology and help build a strong foundation in core programming and problem-solving. Using project-based lessons and materials throughout, students will work to address real-world problems and design solutions to put computational thinking into practice. These culminate in a capstone Performance Task project where students can demonstrate what they've learned - to become creators, instead of merely consumers, of the technology all around them. This course will prepare students for the end-of-course AP Exam.</p>				

Course	Grades	Credits	Prerequisites	Course #
AP Psychology	11-12	1 – Elective	2020 – English 10 with C or higher 2025 – Honors English 10 with C or higher	4070
<p>Students develop understanding of the theoretical underpinnings of psychology, psychological theories, research strategies, brain and nervous system function, the role of personality in behavior, psychological disorders and the range of available treatments. In addition, students understand current laws and ethics regarding research and the field of mental health.</p>				

Course	Grades	Credits	Prerequisites	Course #
Yearbook	10-12	1	Application and Instructor Approval	9610
<p>Yearbook is a demanding, full year, elective course that may be repeated for credit. Over the course of the year, the yearbook staff is responsible for the production of the entire MUHS yearbook. Students handle all phases of the yearbook publication except printing. Much of the work can be completed during school in the computer lab, but some must be done after school or at home. Students must commit to photo assignments of school activities such as sports, plays and other extracurricular events. Students must be committed to meeting deadlines, learning computer publication layout and writing a large number of headlines, body copy and captions. Strong writing skills are required for success in this course.</p>				

Course	Grades	Credits	Prerequisites	Course #
AVID Advancement Via Individual Determination	9-12	1	Application and Instructor Approval	9 th 0160 10 th 0161 11 th 0162 12 th 0163

The AVID (Advancement Via Individual Determination) course is an elective class for students who are college and career bound. The AVID curriculum focuses on writing, inquiry, collaboration, reading and organization (WICOR) through the AVID High School Curriculum in both teacher and tutor-led activities. While concurrently enrolled in a college-prep course of study, students learn strategies to enhance success. Note-taking, outlining, writing, speaking, reading, test-taking strategies and self-awareness are stressed. In addition, the course includes college motivational activities and preparation for ACT, SAT and AP courses.

Course	Grades	Credits	Prerequisites	Course #
AVID Academic Tutor	9-11	1	Instructor Approval	0116

AVID Tutors work with small groups of 9-11th grade peers during tutorial lessons in the AVID elective class. Peer tutors are trained in AVID strategies to help strengthen their peers' understanding of information across all classes. Peer tutors receive a letter grade and are eligible for most AVID field trips.

Course	Grades	Credits	Prerequisites	Course #
Leadership	9-12	1	Instructor Approval	0400

Leadership class is designed to prepare students to become school and community leaders.

- Student Council elected officers required to be in the class (Student Body President, Senior Class President, Senior Class VP, Junior Class Pres., Junior Class VP, Spirit Leader, Secretary/Treasurer)
- Application required for those wanting to be class representatives (current 9th – 11th graders)
- Application required for 8th graders wishing to join in their 9th grade year
- Current high school students wishing to run for student council office need a minimum 1 year of Leadership experience (either in the Leadership class or in another club/organization)
- Please see Mrs. Lyons for information regarding running for Student Council Officer positions

Course	Grades	Credits	Prerequisites	Course #
Internship	12	1	Instructor Approval	0325

The mission of the MUHS Internship Program is simple...College and Career Ready Students! This program is designed to give students real world experience in various career fields. We are looking for internships that allow students to see beyond entry level positions and experience the higher level inner workings of a business, school or community municipality. Our goal is to motivate students to continue with post-secondary education and perhaps return to our community as a prepared and educated workforce!

Course	Grades	Credits	Prerequisites	Course #
Work Experience	11-12	1	Local employment	0320

This course focuses on the development of workplace skills. As a pre-requisite to enrolling in the Work Experience class, students must seek out and find their own job. These jobs must be paid positions for established local employers. Students must work 5 hours per week. A signed training agreement and student worker agreement must be completed. In addition to working a minimum of 180 hours, students must complete a 1-week training at the beginning of the year, assignments throughout the year and turn in all time sheets.

Course	Grades	Credits	Prerequisites	Course #
Student Aide	12	1	Application	0100

Positions include Teacher Aide, Front Office Aide, Bookstore Aide, Special Services Peer Tutor, School Counseling Aide, and Library Aide

Students who serve as aides are accountable to the assigned teacher or staff member a specific period of the day. Clerical skills are desirable. A maximum of 1 credit can be earned for graduation in the aide positions.

