

SY 2018: UMA High School Course Descriptions - Math

Course Title	State Course Code	Aspire Course Code	Low Grade	High Grade	Sem or Year	Foundation, Supplemental, Applied or Advanced
Description						

Secondary Math 1	07-08-00-00-090	07-08-090-01	9	12	Year	Foundation
<p>Students in Secondary Mathematics I will deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomenon, and in part by applying linear models to data that exhibit a linear trend. Students will use properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge. Algebraic and geometric ideas are tied together. Students will experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.</p>						

Secondary Math 2	07-08-00-00-100	07-08-100-01	9	12	Year	Foundation
<p>Students in Secondary Mathematics II will focus on quadratic expressions, equations, and functions, extend the set of rational numbers to the set of complex numbers, link probability and data through conditional probability and counting methods, study similarity and right triangle trigonometry, and study circles with their quadratic algebraic representations.</p>						

Secondary Math 3	07-08-00-00-110	07-08-110-01	9	12	Year	Foundation
<p>Students in Secondary Mathematics III will pull together and apply the accumulation of learning they have from previous courses. They will apply methods from probability and statistics to draw inferences and conclusions from data, expand their repertoire of functions to include polynomial, rational, and radical functions, expand their study of trigonometry to include general triangles, and use functions and geometry to create models and solve contextual problems.</p>						

CE Math 1050 - College Algebra	07-04-00-13-020	07-04-020-50	10	12	Sem	Advanced
<p>CE Math 1050 is a college algebra course offered by Weber State University. Students earn quantitative analysis (GE math) credit with successful completion of the course (at least a C grade). Students must have a qualifying cumulative GPA of at least 3.0 and a qualifying test score, at least a 23 ACT math score or at least a 60 Accuplacer test score, by January in order to be eligible to register for the course. Students will take a comprehensive midterm and final test written and corrected by WSU. Graphing calculators are not allowed by WSU. Students may use a scientific calculator.</p>						

Pre-Calculus	07-04-00-00-020	07-04-020-80	10	12	Year	Advanced
<p>Students gain a deep understanding of the fundamental concepts of functions, including trigonometric functions. Precalculus is highly recommended preparation for students planning to continue their formal education beyond high school.</p>						

AP Calculus (AB)	07-04-00-00-0001	07-04-0001	10	12	Year	Advanced
<p>Calculus AB is designed to be taught over a full high school academic year. Most of the year will be devoted to topics in differential and integral calculus. Must follow College Board guidelines. Students must qualify to take AP Calculus by passing both CE 1050 and CE 1060 with a C or above, or by attaining minimum scores on the ACT Math portion or Accu-Placer. Students may receive college credit if pass final exam.</p>						

Math of Personal Finance	07-07-00-00-020	07-07-020	11	12	Year	Applied
<p>For Juniors or Seniors only. Students must have two years of high school math credit as a prerequisite for this course. Includes ideas, concepts, knowledge, skills that will enable students to implement the mathematical skills they need to become wise consumers, savers, investors, credit users, money managers, citizens, and part of a global workforce.</p>						

SY 2018: UMA High School Course Descriptions - Language Arts

Course Title	State Course Code	Aspire Course Code	Low Grade	High Grade	Sem or Year	Foundation, Supplemental, Applied or Advanced
Description						

Language Arts 9	06-02-00-00-040	06-02-040	9	9	Year	Foundation
A grade level appropriate exploration of reading, writing, and inquiry						

Language Arts 10	06-02-00-00-050	06-02-050	10	10	Year	Foundation
A grade level appropriate exploration of reading, writing, and inquiry						

Language Arts 11	06-02-00-00-060	06-02-060	11	11	Year	Foundation
A grade level appropriate exploration of reading, writing, and inquiry						

Language Arts 12	06-02-00-00-070	06-02-070	12	12	Year	Foundation
A grade level appropriate exploration of reading, writing, and inquiry						

AP English Literature and Composition	06-01-00-00-093	06-01-093	11	12	Year	Advanced Foundation Substitute
An advanced placement course concentrating on writing and the interpretation of literature. Students may receive college credit if pass final exam. Note - Prerequisites Apply. Must have teacher approval. May be taken in place of Language Arts 11 or 12.						

Beginning Speech			9	12	Sem	Elective
A semester course that teaches the skills and strategies of good public speaking.						

Creative Writing 1	06-01-00-00-120	06-01-120	9	12	Sem	Applied
Teaches the skills and strategies necessary to write creatively. This course may be used for Language Arts 12 credit.						

Creative Writing 2	06-01-00-00-121	06-01-121	11	12	Sem	Advanced
Teaches the skills and strategies necessary to write creatively. This course may be used for Language Arts 12 credit.						

CE English 1010	06-01-00-00-115	06-01-115	11	12	Sem	Advanced Foundation Substitute
This course will teach students to find, evaluate, and understand sources while emphasizing that sources exist as part of an ongoing conversation. This course is divided into three related sections: reading and summarizing professional texts, synthesizing the information learned, and producing two formal literature reviews. Students must have an ACT score of at least 18 in English and 18 in Reading. A grade of C or above in this course may be used for University credit and Language Arts 11 or 12 credit.						

SY 2018: UMA High School Course Descriptions - Science

Course Title	State Course Code	Aspire Course Code	Low Grade	High Grade	Sem or Year	Foundation, Supplemental, Applied or Advanced
Description						

Earth Science	08-04-00-00-010	08-04-010	9	12	Year	Foundation
<p>This is the recommended core science course for Grade 9. The theme for Earth Science is systems as an organizing concept to understand life on Earth, geological change, and the interaction of atmosphere, hydrosphere, and biosphere. Earth's place in the universe, internal structure, atmospheric processes, and natural resources are explored to help students understand how Earth science interacts with society.</p>						

Biology	08-02-00-00-010	08-02-010	9	12	Year	Foundation
<p>This is the recommended core science course for Grade 10. This course includes the topics of ecosystems, cells, heredity, diversity, organ systems and evolution. Students will explain biological ideas and concepts in their own words and relate them to other topics and apply them in new contexts.</p>						

Chemistry	08-03-00-00-010	08-03-010	10	12	Year	Foundation
<p>This is the recommended core science course for Grade 11 or 12. This course includes the topics of atoms, energy, chemical bonds, chemical reactions and solutions. Students will develop an understanding of chemical concepts and determine the relevance of chemistry in their lives.</p>						

Physics	08-06-00-00-020	08-06-020	10	12	Year	Foundation
<p>This is the recommended core science course for Grade 11 or 12. The three topics covered in physics are matter, motion and energy. Everything is part of a system, whether it is book on a table, a cog in a machine, a satellite in orbit or a complex electrical circuit. Physics topics will be developed around systems and the nature of science.</p>						

AP Biology	08-02-00-00-001	08-02-001	10	12	Year	Advanced Foundation Substitute
<p>AP alternative for Biology. This course provides in-depth coverage of the biological concepts taught in first year university biology courses and prepares students for the national AP Biology exam. Must follow College Board guidelines. Students may receive college credit if they pass final exam. Prerequisites apply. Must have teacher recommendation.</p>						

Environmental Science	08-04-00-00-020	08-04-020	11	12	Sem	Applied
<p>This course is a study of the human impacts on nature. We will focus on the following topics: Environmental problems, causes and solutions; Ecological principles, cycles and systems; Population growth and dynamics; Pollution of water, soil and air; Energy production, consumption and efficiency; and Biodiversity, conservation and land use. Students will engage in discussions, labs, field studies.</p>						

Geology	08-04-00-00-030	08-04-030	11	12	Sem	Applied
<p>Basic concepts of geology will be studied. Formation of rocks, erosion and landscape evolution, plate tectonics, and interpretation of earth processes from geological data are the foundation of this course.</p>						

Anatomy and Physiology 1	08-02-00-00-065	08-02-065-01	11	12	Sem	Applied
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The Anatomy and Physiology 1 course will study the shape, structure, and function of the human body and its parts. Content includes: basic anatomy and directional terminology, structure and function of body systems and special senses, fundamental concepts and principles of body organization, histology, and hematology.

SY 2018: UMA High School Course Descriptions - Social Studies

Course Title	State Course Code	Aspire Course Code	Low Grade	High Grade	Sem or Year	Foundation, Supplemental, Applied or Advanced
Description						

Geography for Life	09-04-00-00-030	09-04-030	9	12	Sem	Foundation
Core course. Fulfills the requirements for Social Studies secondary students. The course will include map skills with physical and human geography essentials. Though it can be a semester course, it is recommended to be a year long course.						

World Civilizations	09-05-00-00-090	09-05-090	9	12	Sem	Foundation
Core class for 10th grade students. It is designed as a survey class, describing the relationships that have developed over time among major regions of the world: East Asia, South Asia, Southwest Asia (Middle East), Africa, Europe, North America and Latin America.						

US History 2	09-05-00-00-050	09-05-050	9	12	Year	Foundation
A survey of the military, social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Themes that may be addressed in United States History II include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy.						

US Government and Citizenship	09-06-00-00-020	09-06-020	10	12	Sem	Foundation
This core course will present the major ideas, protections, privileges, structures, and economic systems that affect the life of a citizen in the United States political system. the major ideas, protections, privileges, structures, and economic systems that affect the life of a citizen in the United States political system.						

General Financial Literacy	01-00-00-00-100	01-00-100	9	12	Sem	Foundation
0.5 units of credit is required for graduation. Designed to prepare students for the choices and challenges of today's financial markets and develop a better understanding of personal finance. Topics include income, money management, spending and credit, saving and investment, consumer protection, and risk management.						

AP US Government and Politics	09-06-00-00-010	09-06-010	10	12	Sem	Advanced Foundation Substitute
Studies American Government and emphasizes Supreme court cases. Must follow College Board guidelines. Students may receive college credit if pass final exam.						

Economics	09-03-00-00-020	09-03-020	11	12	Sem	Elective
Elective course for secondary students. Economics studies the production, distribution, and consumption of goods and services in an economy.						

SY 2018: UMA High School Course Descriptions - Fine Arts

Course Title	State Course Code	Aspire Course Code	Low Grade	High Grade	Sem or Year	Foundation, Supplemental, Applied or Advanced
Description						

Drawing 1	02-01-00-00-045	02-01-045	9	12	Sem	Foundation
This entry level High School course is centered on the development of observational skills needed in rendering the illusion of 3D forms on a flat surface.						

Commercial Art	02-01-00-00-040	02-01-040	10	12	Sem	Advanced
Prerequisite: Foundations I, II or Drawing I. This High School course is designed to provide an overview of traditional art media and new electronic or computer generated media used in modern communications.						

Photography	02-01-00-00-110	02-01-110	10	12	Sem	Advanced
This High School level course focuses on basic procedures for operating a digital and/or analog camera and understanding light. It may include darkroom work in developing film and making prints and enlargements and/or digital software editing and production techniques.						

Band 1 - Beginning Band	02-04-01-00-001	02-04-01-001	9	12	Year	Foundation
Provides opportunities for students to develop their musical potential and aesthetic understanding through learning to play a woodwind, brass, or percussion instrument in a large ensemble band setting.						

Band 2 - Intermediate Band	02-04-01-00-010	02-04-01-010	9	12	Year	Advanced
Prerequisite: Band I equivalent or audition. Further develops and refines core concepts and fundamentals introduced in Beginning Band. Students participate in a large ensemble band.						

Band 3 - Advanced Band	02-04-01-00-020	02-04-01-020	9	12	Year	Advanced
Prerequisite: Audition. Provides opportunities to foster and refine musical expression through instrumental performance, analytical/evaluative skills, and aesthetic judgment. Students participate in a large ensemble band.						

Orchestra 1 - Beginning Strings	02-04-03-00-001	02-04-03-001	9	12	Year	Foundation
Provides opportunities for students to develop their musical potential and aesthetic understanding through learning to play orchestral string instruments.						

Chorus 1 - Beginning Choir	02-04-02-00-001	02-04-02-001	9	12	Sem	Foundation
This course provides opportunities for students to develop their musical potential and aesthetic understanding through singing in a choral mixed ensemble.						

SY 2018: UMA High School Course Descriptions - JROTC

Course Title	State Course Code	Aspire Course Code	Low Grade	High Grade	Sem or Year	Foundation, Supplemental, Applied or Advanced
Description						

AS100 - Science of Flight	15-00-00-00-060	15-60-100	9	12	Year	Foundation
<p>Core JROTC Course for Grade 9. The Science of Flight: A Gateway to New Horizons is an introductory course and customized textbook that focuses on how airplanes fly, how weather conditions affect flight, flight and the human body, and flight navigation. The course is designed to complement materials taught in math, physics, and other science related courses and is aligned with the National Science Education Standards, the Math Standards and Expectations, and ISTE National Educational Technology Standards for Students.</p> <p>LE100 - Traditions, Wellness, and Foundations of Citizenship</p>						

AS200 - Exploring Space	15-00-00-00-060	15-60-200	10	12	Year	Foundation
<p>Core JROTC Course for Grade 10. Exploring Space: The High Frontier course begins with the study of the space environment from the earliest days of interest in astronomy and early ideas of the heavens, through the Renaissance, and on into modern astronomy. It provides an in-depth study of the Earth, Sun, stars, Moon, and Solar System, including the terrestrial and the outer planets. It discusses issues critical to travel in the upper atmosphere—such as orbits and trajectories—unmanned satellites, and space probes. It investigates the importance of entering space and discusses manned and unmanned missions, focusing on concepts surrounding spaceflight, space vehicles, launch systems, and safety.</p> <p>LE200 - Communication, Awareness, and Leadership</p>						

AS300 - Aerospace History	15-00-00-00-060	15-60-300	11	12	Year	Foundation
<p>Core JROTC course for Grade 11. <i>Aerospace Science: A Journey Into Aviation History</i> is a course about aviation history, focusing on the development of flight throughout the centuries. It starts with ancient civilizations, then progresses through time to modern days. It emphasizes civilian and military contributions to aviation, the development and modernization of the United States Air Force, and a brief history of astronomy and space exploration.</p> <p>LE300 - Life Skills and Career Opportunities</p>						

AS400 - Global Awareness	15-00-00-00-060	15-60-400	12	12	Year	Foundation
<p>Core JROTC Course for Grade 12. Cultural Studies: An Introduction to Global Awareness is a customized course about the world's cultures. The course is specifically created for the US Army, Marine Corps, Navy, and Air Force Junior ROTC programs. It is designed to introduce students to the study of world affairs, regional studies, and cultural awareness. It delves into history, geography, religions, languages, culture, political systems, economics, social issues, environmental concerns, and human rights. It looks at major events and significant figures that have shaped each region.</p> <p>LE400 - Principles of Management</p>						

JROTC - Staff	15-00-00-00-060	15-60-500	11	12	Year	Elective
Cadet Leadership Course. Must be selected by JROTC staff to register.						

JROTC - Beginning Drill and Honor Guard	15-00-00-00-060	15-60-600	9	12	Sem	Elective
Cadets will learn basic principles and reasoning for drill in order to improve communication and team building, and leadership skills. Course will focus on AFJROTC 30 count procedures and drill movements and command voice characteristics.						

JROTC - Competitive Drill	15-00-00-00-060	15-60-650	10	12	Year	Elective
The competitive drill class prepares students to compete at local, regional, and national drill competitions. Students will learn basic and advanced drill sequences in order to compete. Enrollment in the competitive drill class does not ensure a cadet will compete in drill competitions. All primary and alternate positions are determined by the drill team captains and AFJROTC Cadre.						

JROTC - Marksmanship	15-00-00-00-060	15-60-700	10	12	Sem	Elective
<p>The course covers how to organize a JROTC marksmanship program, how to safely and properly conduct air rifle live firing, and teaches basic marksmanship skills that are the foundation for three-position air rifle qualification and competition. Cadet's may participate on the school's air rifle marksmanship team through course participation.</p>						
JROTC - Survival	15-00-00-00-060	15-60-750	11	12	Sem	Elective
<p>Introduces cadets to the physical and mental needs individuals must possess to survive in austere situations or environments. Teaches the physiological aspects of survival, required personal protection measures, and where to find necessities required to maintain life.</p>						

SY 2018: UMA High School Course Descriptions - CTE

Course Title	State Course Code	Aspire Course Code	Low Grade	High Grade	Sem or Year	Foundation, Supplemental, Applied or Advanced
Description						

Computer Technology 1 Self-Paced Mastery	32-02-00-00-240	32-02-240	9	12	Sem	Foundation
An introduction to computer application software that includes word processing, spreadsheet, database, and telecommunications. An awareness of career opportunities, business ethics, and trends is included.						

Word Processing Self-Paced Mastery	32-02-00-00-370		9	12	Sem	Elective
This course focuses on improving typing speed and document development. As students create a variety of documents, increased efficiency, productivity, quality, and creativity will be evident through their use of basic and advanced software features. Instruction on proper keyboarding technique and recommended styles for business documents will coincide with their software training.						

Computer Programming 1	35-02-00-00-030		10	12	Year	Elective
An introductory course in computer programming/software engineering and applications. The course introduces students to the fundamentals of computer programming. Students will learn to design, code, and test their own programs while applying mathematical concepts. Teachers introduce concepts and problem solving skills to beginning students through a programming language such as C++, C#, Java, Python, or JavaScript.						

Desktop Publishing 1 Self-Paced Mastery	32-02-00-00-190	32-02-190	9	12	Sem	Elective
This one-semester course provides skill development in the electronic procedures of producing and editing publications. Students will create, format, illustrate, design, edit/revise, and print publications. Improved productivity of electronically produced newsletters, flyers, brochures, reports, advertising materials, and other publications are emphasized. Proofreading, document composition, and communication competencies are also included.						

Business Web Page Design Self-Paced Mastery	32-02-00-00-280	32-02-280	9	12	Sem	Elective
This semester course provides students with an introduction to the Internet. Students will demonstrate a basic knowledge of the Internet and its tools through the use of e-mail, search engines and browsers. HTML and Web publishing software will be used to create, format, illustrate, design, edit, and publish Web pages. Emphasis will be placed on the application of the Internet in business.						

Robotics 1	38-01-00-00-031		10	12	Sem	Elective
This semester course prepares STEM-centered students with an introduction to the design, engineering and programming of robots for the purpose of exploring past, current, and future use of automation technology.						

Law Enforcement	40-06-00-00-000	40-06-000	10	12	Sem	Elective
A course that prepares individuals to perform the duties of police and public security officers, including patrol and investigative activities, traffic control, crowd control, public relations, witness interviewing, evidence collection and management, court procedures and the law in general. Basic crime prevention methods, weapon and equipment operation, equipment maintenance, and other routine law enforcement responsibilities are also included.						

General Financial Literacy	01-00-00-00-100	01-00-100	9	12	Sem	Foundation
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0.5 units of credit is required for graduation. Designed to prepare students for the choices and challenges of today's financial markets and develop a better understanding of personal finance. Topics include income, money management, spending and credit, saving and investment, consumer protection, and risk management.

SY 2018: UMA High School Course Descriptions - PE and Health

Course Title	State Course Code	Aspire Course Code	Low Grade	High Grade	Sem or Year	Foundation, Supplemental, Applied or Advanced
Description						

Fit for Life	04-02-00-00-030	04-02-030	9	12	Sem	Foundation
Core-required class that provides comprehensive instruction in nutrition, fitness activities, and self-assessment.						

Lifetime Activities	04-02-00-00-040	04-02-040	10	12	Sem	Foundation
Core-required class offered in grade 10 or 11 that provides instruction in up to three lifetime sports activities and physical fitness.						

PE - Weight Training	04-02-00-00-056	04-02-056	10	12	Sem	Elective
High School class taken for elective credit only after core-required P.E. classes are completed.						

Health Education 2	04-01-00-00-010	04-01-010	10	12	Sem	Foundation
Advanced required core curriculum course that builds on the concepts and principles developed in Health I.						

Anatomy and Physiology 1	08-02-00-00-065	08-02-065-01	11	12	Sem	Applied
The Anatomy and Physiology 1 course will study the shape, structure, and function of the human body and its parts. Content includes: basic anatomy and directional terminology, structure and function of body systems and special senses, fundamental concepts and principles of body organization, histology, and hematology.						

SY 2018: UMA High School Course Descriptions - Foreign Languages

Course Title	State Course Code	Aspire Course Code	Low Grade	High Grade	Sem or Year	Foundation, Supplemental, Applied or Advanced
Description						

Spanish 1	03-07-00-00-011	03-07-011	9	12	Year	Foundation
<p>Emphasis placed on speaking skills through reading and writing are addressed. This course provides for the learning of dialogues, common words and expressions and basic language structure as well as oral practice of the language in skits, poetry, dialogues and readings.</p>						

Spanish 2	03-07-00-00-021	03-07-021	9	12	Year	Advanced
<p>Prerequisite: Successful completion of Spanish 1 or placement test. This course continues the development of speaking, listening, reading and writing skills. Narratives and dialogues are used to teach structure and vocabulary. Culture and geography of the native country are taught through reading selections.</p>						

SY 2018: UMA High School Course Descriptions - Electives

Course Title	State Course Code	Aspire Course Code	Low Grade	High Grade	Sem or Year	Foundation, Supplemental, Applied or Advanced
Description						

Learning Strategies	15-00-00-00-045	15-00-045	9	12	Sem	Foundation for Grades 9 and 10
<p>This course provides opportunities for students to develop their academic potential and understanding of commonly held academic strategies and practices through practice and mentorship.</p>						

Directed Studies	23-01-00-00-220	23-01-220	9	12	Year	Foundation for SPED
<p>Only available for students with IEPs. This course is designed to provide specialized instruction for targeted, individualized education goals for students with disabilities.</p>						

Teacher Assistant	25-01-00-00-010	25-01-010-01	11	12	Year	Advanced
<p>Course used for students serving as a student aide/assistant. <u>NOT available to Grades 9 and 10.</u></p>						

Office Aid	25-01-00-00-010	25-01-010-02	11	12	Year	Advanced
<p>Course used for students serving as a student aide/assistant. <u>NOT available to Grades 9 and 10.</u></p>						