
2016 - 2017

Ouray School District R-1

HS Course Descriptions



The choices made in high school can have long-lasting effects on a student's future, so it is more important than ever to make informed decisions. Students are urged to discuss educational and career goals with parents, teachers, school counselor, and any others who might help in order to formulate a tentative plan for the years in high school. Oftentimes career goals change as students move through high school. For this reason alone, students should take the most difficult courses they can handle so that college and career choices remain open for them. As a maturing young adult, your course decisions should not be based on what friends do. Likewise, although parents have more experience and great hindsight, courses should not be taken just because the parents wish they could have or would have taken them. In other words, the decision truly belongs to the student and he/she will indeed be the one to experience the consequences of those decisions.

Students planning to pursue some type of post-high school education should know that admissions and scholarship committees consider the following:

1. *Attendance*
2. *Grades*
3. *Academic difficulty of courses taken*
4. *Results of achievement and scholastic aptitude tests*
5. *College entrance exams*
6. *Extracurricular activities*
7. *Leadership shown within and outside the school environment*
8. *Community service*

Your student high school record will follow you, so make it the best you can!

The Colorado Commission on Higher Education (CCHE) oversees admission standards for Colorado colleges and universities. The Commission has established Higher Education Admission Requirements (HEAR) for students who graduate from high school in 2010 or later and who plan to attend a four-year public college or university in Colorado. ***Community Colleges will continue to offer open admissions.***

Higher Education Admission Requirements (HEAR)

	4 year Colorado Colleges, Universities & Military Academics
English	4 years
Science	3-4 years At least two years must be lab based. Biology Chemistry Physics
Math	4 years Geometry, Algebra II and two higher levels beyond Algebra II
Social Studies	3 years At least one year of US or World History
Foreign Language	Minimum of 2 years of the same language
Electives	Music, Art, Technology, Business

GRADUATION REQUIREMENTS

Ouray High School

28 credits are required for graduating from Ouray High School.

4.0 credits	Language Arts
3.0 credits	Mathematics (Geometry, Algebra II and one credit math elective)
3.0 credits	Physical Science, Chemistry and one science elective)
3.5 credits	Social Studies (Geography, World History, US History, Government .5)
1.0 credits	Physical Education
2.0 credits	Humanities
1.0 credits	Foreign Language
1.0 credits	Business
1.0 credits	Technology
0.5 credit	Health
8.0 credits	Electives

AP/College Concurrent Courses:

Ouray High School continues to make every effort to expand the Advanced Placement and Post-Secondary Options college course offerings. Students enrolling in AP courses need to be aware of the demanding course requirements. A score of 3, 4 or 5 on the final AP tests may qualify for college credit (depending on the university's standards). **Students are responsible for 100% of the cost of the test which must be paid prior to ordering the exam.** Students enrolled in college classes must meet the requirements set forth by the participating college. See Administration for information regarding these requirements.

LANGUAGE ARTS

4 Credits (English 9, American Literature, Dramatic or International Literature or equivalent)

English 9

LA101 - 1 credit

English 9 helps students make the transition into high school. The course gives students the tools to read and write at a high school level: students read in all genres, explore literary analysis, build on their expressive and presentation skills, encounter writing as a process of refining one's thoughts, and improve their understanding of conventions.

American Literature: English 10

LA301 - 1 credit

What makes us American? How does our writing reflect who we are and how we think? In this course, students explore American history, culture, identity, and expression as reflected by great writing and thinking from our past few hundred years, pre-colonial through the present. Meanwhile, we continue to build the skills of critical thinking and analysis that will be useful in college and beyond.

International Literature

LA302 - 1 credit

In this course, students tour the world, understanding how literature reflects thought and how different cultures and histories affect the way people understand themselves and their world. By the end of the year, students choose a country to learn about, exploring and presenting history, culture, and literature from that place. Meanwhile, we continue to build the skills of critical thinking and analysis that will be useful in college and beyond. Offered to juniors and seniors.

Dramatic Literature

LA306 - 1 credit

This is a course about language and dramatic literature, a course about how fun and astounding words can be, when well used. Plays are an especially good medium in which to study this topic. First, they are literature in action: the only way to read a play is to imagine how the words can be embodied. Reading plays helps us to build the habit of bringing words on the page to life.

Just as importantly, plays teach argument. Every great flowering of democracy and thought has been concurrent with a great age of drama. A play is how a society airs its dirty laundry, tries to come to terms with the hard questions it is facing, in effect, debates its issues publicly.

In class, we will practice using words well: we will read (mostly in class) great authors from the ancient Greek, Renaissance, and modern periods (Sophocles, Shakespeare, Ibsen, Williams, Miller, Wilson), we will think and speak and write in response to the plays, building on skills to prepare all students to meet language arts standards. The culminating project will consist of each student's original one-act play. Offered to juniors and seniors.

College Writing:**LA501 - 1 credit**

This is a post-secondary level class that focuses on the skills of college level composition. The first semester treats writing as a rhetorical process, and the second focuses on college-level research. While the research will be inter-disciplinary, much of the instruction will build on the skills of literary analysis that other English courses have prepared students for.

Students enroll concurrently in Colorado Mesa University courses English 111 and English 112; in addition to weighted grades at Ouray High School, they can earn a total of six university credits. Offered to juniors and seniors in alternating years with College Literature.

Prerequisites: must qualify for Concurrent Enrollment

College Literature**LA607 - 1 credit**

This is a post-secondary level class that focuses on the skills of college level literary analysis. The first semester surveys approaches to critical interpretation, and the second applies those approaches to the process of making and expressing meaning. In other words, we read great literature and figure out how to talk and write and think about the meanings of these works.

Students enroll concurrently in Colorado Mesa University courses English 150 and English 196; in addition to weighted grades at Ouray High School, they can earn a total of six university credits. Offered to juniors and seniors in alternating years with College Writing. **Prerequisites: must qualify for Concurrent Enrollment**

LANGUAGE ELECTIVES**Journalism****LA601 - .5 credit**

Ouray High School publishes a page weekly in the Plaindealer. Journalism students are responsible for every word and photo on that page. What is important to students at Ouray Schools? How shall we present those issues to the community? This is our voice!

Creative Writing**LA602 - .5 credit**

A different project in fiction, poetry, or creative non-fiction each time this course is offered: always it leads to publication of student writing.

Speech**HU112 - .5 credit**

Students learn tools to use in the art of public speaking. This is a performance based class, therefore, speeches will be made in front of peers and general audiences.

Acting Shakespeare**HU402 - .5 credit**

From the heights of passion to the depths of grief to the ends of hilarious comedy, nobody gave us better words to play with than Shakespeare. Through games and exercises and reading and viewing and playing, this course will teach the basics of acting, so that the words activate our minds, bodies, and emotions. We will bring Shakespeare to life in monologues, scenes, and, by the end of the semester, a production of whichever play the class chooses together.

MATHEMATICS

Required 2 credits - Geometry (or equivalent), Algebra II (or equivalent), plus 1 Math Elective

Geometry

MA201 - 1 credit

In this class, students will explore geometric shapes, angles, terminology and the relationship between geometric figures and algebra. For most students, it provides the 2nd of three math credits required for graduation. Roughly 35-40% of the ACT test is comprised of geometry-related questions, so the importance of this course cannot be over-emphasized. **Prerequisite: Algebra I with a score of 250 general NWEA 6th with goals examination.**

Algebra II

MA202 - 1 credit

Algebra II is designed to teach you the foundations of advanced algebraic mathematics. We will be studying variables and expressions, axioms, functions and relations, linear functions, systems of linear equations, quadratic equations, complex numbers, exponential, logarithmic functions and rational functions. These topics will prepare you for advanced math and college. This class is needed for college acceptance. Work will consist problem solving. **Prerequisite: Geometry and Algebra I.**

MATHEMATIC ELECTIVES

Algebra I

MA101 - 1 credit

Algebra I is designed to teach the basic foundations of advanced mathematics. In this class, one will explore variables, word problems, number properties, transforming equations, problem solving, functions, graphing linear equations, polynomials, factoring, polynomial fractions, quadratic equations and applications for all. It is a required class to graduate and it is usually a freshman level class; 8th graders who are evaluated for readiness may be enrolled when recommended by their instructors. To meet the standards of this class, students will achieve a score of 250 or higher on the General NWEA 6th with goals examination.

Pre-Calculus with Trigonometry

MA301 - 1 credit

In this course, students will extend topics introduced in Algebra II and learn to manipulate and apply more advanced functions and algorithms. This course provides a mathematically sound foundation for students who intend to study Calculus. **Prerequisite: Algebra II or higher.**

Calculus

MA402 - 1 credit

Calculus courses include the study of derivatives, differentiation, integration, the definite and indefinite integral, and applications of calculus. Typically, students have previously attained knowledge of pre-calculus topics (some combination of trigonometry, elementary functions, analytic geometry, and math analysis). **Prerequisite: Pre-Calculus with Trigonometry.**

Calculus II**MA404 - 1 credit**

Calculus II is a second course in the calculus of one variable intended for advanced students. Topics include an overview of integration, basic techniques for integration, a variety of applications of integration, and an introduction to systems of differential equations.

Prerequisite: Calculus or AP Calculus.

College Algebra – Math 113**MA503 - 1 credit**

A college level treatment of algebra. Topics include algebraic properties of the integers, rationals, real and complex numbers; techniques for manipulation of expressions; techniques for solving linear, non-linear, absolute value equations, and inequalities; techniques for solving systems equations; the Cartesian plane. Relations and functions; properties and graphs of polynomial, rational, exponential, logarithmic and inverse functions; conic sections.

Prerequisite: Algebra II or higher. Must qualify for Concurrent Enrollment.

College Trigonometry**MA420 - 1 credit**

A college-level treatment of trigonometry. Topics include the Cartesian plane, functions, inverse functions, the circular function, trigonometric functions, graphs of trigonometric functions, trigonometric identities, solving trigonometric functions equations, inverse trigonometric functions, triangle solution techniques and vectors. **Prerequisite: Algebra II or higher. Must qualify for concurrent enrollment.**

College Pre-Calculus**MA507 - 1 credit**

In this class, the students will explore the study of functions (polynomial, rational, exponential, and logarithmic) with emphasis on graphing, applications, and the graphing calculator. Students will also study trigonometry with emphasis on trig functions, graphing, and applications. Students can receive college credit for this course. **Prerequisites: must qualify for Concurrent Enrollment.**

AP Calculus AB**MA506 - 1 credit**

An AP course in calculus consists of a full high school academic year of work that is comparable to calculus courses in colleges and universities. It is expected that students who take an AP course in calculus will seek college credit, college placement, or both, from institutions of higher learning. The material includes the study and application of differentiation and integration, and graphical analysis including limits, asymptotes, and continuity. **Prerequisite: Pre-Calculus.**

AP Calculus BC**MA508 - 1 credit**

Calculus BC is a second course in a single-variable calculus that would be equivalent to a second semester calculus course at most colleges and universities. This is not an AP course but the course follows the AP syllabus. This course will provide a deeper understanding of the concepts of limit, continuity, derivatives, and integrals which were covered in AP Calculus AB. The major new topics covered in AP Calculus BC are Parametric, polar, and vector

functions; slope fields; Euler's method; L'Hopital's Rule; Improper Integrals; Logistic differentiable equations; Polynomial approximations and Series; and Taylor Series.

Business Math

BU202 - .5/1 Credit

This course focuses on practical math skills that affect the student's life both personally and in business. Fundamental math skills and their application for personal use will be covered.

Accounting

BU701 - 1.0 Credit

This course focuses on the basic principles of how business transactions are performed and recorded. Students will explore both computerized and manual accounting concepts.

Personal Financial Management

BU301 - 1 credit

This class is an exploration of money and other issues facing the student as they start on their own. Students learn about budgets, career issues, taxes, life and health insurance, debt management, investing, home ownership, and estate planning.

SCIENCE

Required 2 credits (Science 9 or equivalent, Biology or equivalent), plus 1 science elective

Science 9

SC101 - 1 credit

This course is in two parts. The first part of the year we will be working on a Force, Motion, and Energy Unit with mostly hands on labs. The second part of the year will focus on Earth Science topics not covered in 8th grade including, Composition of the Earth, Weather and Climate, Oceanography and Astronomy.

Biology 10

SC201 - 1 credit

The following topics will be discussed and covered as an overview: chemistry, evolution, five kingdom taxonomy, cytology, genetics, photosynthesis, protein synthesis, aerobic and anaerobic respiration, mitosis, meiosis, human body systems, ecology, and flora and fauna of the Rocky Mountains.

SCIENCE ELECTIVES

College Biology 101 (must sign up for lab)

SC501 - 1 credit

A greater in depth look at the following topics: specific human body systems, nutrition, cytology, genetics, and ecology. A passing grade of 70% or higher can earn you 4 college credits from Colorado Mesa University. Course is taken in 2 periods during 1 semester. Course offered every other year. **Prerequisites: must have taken Chemistry or be concurrently enrolled in Chemistry and must qualify for Concurrent Enrollment.**

College Biology 102 (must sign up for lab)

SC507 - 1 credit

A greater in-depth look at the following topics: organic compounds, cytology, cell respiration, photosynthesis, protein synthesis, aerobic and anaerobic respiration, mitosis, meiosis, evolution, botany, zoology and animal and plant physiology. Must have taken Chemistry or be concurrently enrolled in Chemistry. A passing grade of 70% or higher can earn you 4 college credits from Colorado Mesa University. Course is taken in 2 periods during 1 semester. Course offered every other year. **Prerequisites: must have taken Chemistry or be concurrently enrolled in Chemistry and must qualify for Concurrent Enrollment.**

AP Chemistry:

SC511 - 1 credit

This is a second year chemistry course designed to supplement and expand a student's background to the first year college level. The topics of kinetics, thermodynamics and electrochemistry will receive special emphasis. The concept of equilibrium will be explored in depth, especially as it applies to the acid-base and solubility equilibria of aqueous solutions. Students will be expected to take the AP Chemistry Exam given in the spring. Students will also be required to complete a summer assignment in order to take this course. **Prerequisite:**

Algebra 2 and 1 year of Chemistry with B or better grade average or permission of instructor.

AP Environmental Science

SC501 - .5 credit

The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science. The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. The curricular topics are: Earth Systems and Resources, The Living World, Population, Land and Water Use, Energy Resources and Consumption, Pollution, Global Change. **Prerequisite: permission of instructor.**

Applied Technology

TE102 - .5 credit

In this STEM class, students will gain hands-on experience in the process of design and production. Students will plan, draw, pre-test, build, and test hand-made models of dragsters, bridges, electronic circuits, alternative energy vehicles, and rockets.

Astronomy

SC601 - .5 credit

Students will learn fundamental astronomical topics ranging from the Big Bang to space exploration. Explore the Universe from the origins to the solar system. Students will engage in night-time telescope labs and online telescope projects.

Chemistry:

SC301 - 1.0 credit

This chemistry course provides a laboratory oriented approach to chemistry; many of the experiments involve practical topics that relate to students' everyday lives. Although some mathematics is involved, the course does not emphasize a mathematical approach and is oriented toward a blend of academic and applied concepts. The focus of this course is on the principle concepts of chemistry and the importance that chemistry plays in our world.

Prerequisite: No less than C grade Algebra 2 and any previous science course taken in 9th, 10th, 11th grade.

Chemistry in the Community

SC302 - .5 credit

This course is intended for students who want to learn the practical applications of chemistry in the everyday world. Students can expect a strong hands-on experience. This course is offered in alternate years.

Physics:

SC401 - 1 credit

Physics is a survey course for students who desire a liberal arts preparation for college studies but who may not be planning a career in the fields of science or technology. The essentials of classical mechanics as well as electricity and magnetism are developed with emphasis on

conceptual understanding, laboratory experiments, and algebra-based problem solving.

Prerequisite: Grade C or better in all previous science or mathematics courses, including Algebra 2, taken in 9th, 10th or 11th grade.

Geology

SC403 - .5 credit

This is a course that examines both physical and historical geology. Topics studied will include mineral identification through physical and chemical techniques, the origin and evolution of land forms, geologic mapping, identification, and uses of fossils. Emphasis will be placed on the geology of Colorado. **Prerequisite: Physical Science, Algebra 1. No less than C grade in any previous science course taken in 9th, 10th, 11th grade.**

Meteorology

SC404 - .5 credit

Students will learn the physical nature of our atmosphere and the human connections that influence our weather and climate. We will engage in surface water quality testing and a dendrochronology project.

Fringe Science / Astrobiology

SC203 - .5 credit

This course contains lessons that mix science with elements of Science Olympiad Division C events like Disease Detectives, Forensics, Sounds of Music, Chem Lab and Dynamic Planet. Lessons will include learning objectives, online resources, a hands-on activity, discussion suggestions, extensions, episode scenes of relevance, and National Science Standards Alignment. The Science of Fringe Lessons Plans are the centerpiece of a public service and promotional campaign designed to raise awareness about science, technology, engineering, and math (STEM) education.

This course will also contain lessons in Astrobiology, a completely integrated science that brings together biology, chemistry, physics, geology, and astronomy together to seek answers to challenging questions. Through a series of inquiry-based activities designed according to the theme of the search for life beyond earth, you will explore diverse concepts in Earth and space science, chemistry, physics and biology.

SOCIAL STUDIES

Required 3.5 Credits (World Geography, World History, US History and US Government)

World Geography

SS101 - 1 credit

This course addresses the six Colorado standards for history and the six Colorado standards for geography primarily through a study of World Cultures. While the approach is fairly traditional, the emphasis is on the interdependency of all world cultures as exhibited through a continuing survey of current events.

World History

SS201 - 1 credit

This course continues to develop the six Colorado standards for History and the six Colorado standards for Geography through a survey of World History as it culminates in a Western European tradition that was the primary influence on US History. The emphasis in the course is on how those historical influences affect current events today.

US History

SS301 – 1 credit

This course further develops the six Colorado standards for History and the six Colorado standards for Geography through a chronological approach to the significant events in US History. This course will cover a brief survey of Columbus to the Civil War. The majority of the material is covered from Reconstruction to the present. As in World History, the emphasis is on the effects those historical influences have on current events today. A variety of study and evaluative methods are utilized with the objective of making the learner more independent. **Prerequisite: World Geography and World History**

AP US History

SS501 - 1 credit

This course covers the same material as US History but in greater depth and detail. This course differs from other high school subjects in that it is taught utilizing a college methodology and a college text. Students may choose to take the AP US History exam for which they could receive college credit. Because of the collegiate format, this course, like any advanced placement course, is highly recommended for college bound students as a way of preparing for college level expectations. ****This course can be substituted for U.S. History. Prerequisite: Junior status and instructor recommendation. Students are required to pay 100% of the cost of this test.**

US Government

SS401 - .5 credit

This course reinforces those concepts of citizenship participation in democratic government that have been introduced during the three previous secondary Social Studies classes. This is accomplished by an approach that emphasizes practical participation in local, regional, state, and national issues through attendance at public hearings, visitations to governmental meetings and representatives' offices, and contacting state and federal agencies through letter, fax and e-mail messages. A significant part of this course is to instruct students on how to stay informed

and active in all levels of government that will ultimately affect their lives as productive citizens. **Prerequisite: Senior status.**

AP US Government

SS403 - 1 credit

Following the College Board's suggested curriculum designed to parallel college-level U.S. Government and Politics courses, these courses provide students with an analytical perspective on government and politics in the United States, involving both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. The courses generally cover the constitutional underpinnings of the U.S. government, political beliefs and behaviors, political parties and interest groups, the institutions and policy process of national government, and civil rights and liberties. **Prerequisite: Junior status and instructor recommendation. Students are required to pay 100% of the cost of this test.**

SOCIAL STUDIES ELECTIVES

Current Affairs

SS303 - .5 credit

Current Affairs is a course designed to address current issues locally, nationally, and internationally. The course will also focus on major areas of conflict in the world. In this course we will engage in critical evaluation of topics on social, political, intellectual, religious and economic viewpoints. Throughout this course students will follow current affairs presented in several news sources. This means that students will need to make it a habit to read the newspaper on a daily basis and search archives for stories relative to the topics we are studying in class. Instruction includes class discussion, lecture, and group work.

Economics

SS110 - .5 credit

This semester course provides students with theoretical underpinnings and functional knowledge in economics to become informed consumers, producers, and citizens in today's world. Economics is the study of how individuals, businesses, and governments make decisions about the use of scarce resources in a world of unlimited wants and needs. This is done at both the microeconomic and macroeconomic level, both of which will be examined in detail. At the microeconomic level, students will investigate the smaller units of the economy and individual firms and markets. In macroeconomics, students will study the global economy and economics of nations and governments as they try to foster growth and stability. The course is useful in helping students to acquire many life skills, and also in establishing a foundation for more advanced study of economics.

Colorado History

SS307 - .5 credit

State-Specific Studies courses examine the history, politics, economics, society, and/or cultures of one state in the United States. This course may focus primarily on the history of that state or may take an interdisciplinary approach to the contemporary issues affecting it.

FOREIGN LANGUAGE

Required 1 Credit

Spanish I

FL101 - 1 credit

¡Vamos a hablar! The Spanish I class emphasizes listening and speaking. Our main goal is to focus on your oral comprehension and basic spoken communication. Units of focus include: Basic Greetings / Words of Etiquette, Numbers / Days of the Week / Months of the Year, Basic Vocabulary, City Vocabulary / Directions, School Vocabulary, Weather / Time Vocabulary, Vocabulary related to hobbies / pastimes, Verbs – Present tense, with an introduction to future. By the end of this course students will be able to understand short, simple conversations, express their occupations and interests, read and understand basic written text, and compose short narratives relating to their lives – all of this in the target language.

Spanish II/III

FL201 - 1 credit

The follow up to Spanish I ---This course continues verb and vocabulary development, plus it adds extended conversation and intermediate literature and composition to the language experience. **Prerequisite: Spanish I.**

Spanish III/IV

FL302 - 1 credit

The continuation of Spanish II/III. This course allows for mastery of all seven simple verb tenses, and includes exposure to the subjunctive. Intermediate level literature and written composition are mainstays of this experience.

French I

FL103 – 1 credit

Soyez prêts à parler! The Français I course emphasizes listening and speaking. Our main goal is to focus on your oral comprehension and basic spoken communication. Units of focus include: Basic Greetings / Words of Etiquette, Numbers / Days of the Week / Months of the Year, Basic Vocabulary, City Vocabulary / Directions, School Vocabulary, Weather / Time Vocabulary, Vocabulary related to hobbies / pastimes, Verbs – Present tense, with an introduction to past and future. By the end of this course students will be able to understand short, simple conversations, express their occupations and interests, read and understand basic written text, and compose short narratives relating to their lives – all of this in the target language.

French II

FL203 – 1 Credit

Soyez prêts à discuter! The Français II course carries on with where Français I left off. While we continue to emphasize listening and speaking, however, our goal is to move past the basics and get into real discussion. Units of focus include: Reinforcement of topics covered in French 1, Health, wellness, and daily habits, French Food and Food Culture, Daily Life and issues in

Contemporary France, Current Events in France and the world. By the end of this course students will be able to read simple news articles, write short summaries; and hold more extended conversations about issues important to them, their peers, and other people in the world – all of this in the target language. **Prerequisite: successful completion of French I**

French III/IV

FL304 – 1 credit

Soyez prêts à lire et apprendre! The Français III/IV course focuses on expanding students' comprehension of written French and understanding of France. This course cycles through two years. Over the course of four semesters students will study French History from 125 BC through today. One semester will also be an intensive study of Paris, in preparation for the French IV Paris Trip.

The topics covered in the 2-year cycle include: The land of Gaul under the Roman Empire, The Franks, Charlemagne, and the Middle Ages, The Crusades, The Development of the French Monarchy, The Renaissance and Enlightenment in France, The French Revolution, Napoleon and the French Empire, The Transformative 19th Century – Art, Philosophy, and Industrialization, The Traumatic 20th Century – Two World Wars and a Changing World View, Post-WWII Culture, Literature, and Drama (Existentialism of Sartre, de Beauvoir, Camus, and Beckett), Things Fall Apart – the 60s and 70s, and 80s (Student riots of 1960s, Lyotard and Postmodernism), France at the end of the 20th century, PARIS TRIP PREP - Layout of city, architecture, museums, cafes, etc. This course is reading-intensive, and the texts serve to enhance students' grammatical understanding of the language. Activities to improve students' oral comprehension and speaking skills will be interspersed throughout the units. **Prerequisite: successful completion of French II**

AP French Language & Culture

FL503 – 1 credit

This rigorous class focuses entirely on reading, listening, speaking, and writing, entirely in French, on contemporary issues related to science, technology, family, and cross-cultural comparison. Students will take the AP French course at the end of the class. **Prerequisite: By Instructor Permission Only.**

Other languages – by permission and arrangement of instructor

BUSINESS

Required 1 Credit

Personal Financial Management

BU301 - 1 credit

This class is an exploration of money and other issues facing the student as they start on their own. Students learn about budgets, career issues, taxes, life and health insurance, debt management, investing, home ownership, and estate planning.

Accounting

BU701 - 1 credit

This course focuses on the basic principles of how business transactions are performed and recorded. Students will explore both computerized and manual accounting concepts.

Marketing

BU401 - .5 credit

This class presents an overview of marketing--the business operations that connect a product or service to its user. Students will learn skills and concepts such as the four P's of marketing, channels of distribution, sales, customer service, advertising and promotion. They will practice communications and human-relations skills. Student leadership development and employment skills are integrated into this class.

Introduction to Publications

BU600 - .5 credit

Use Adobe InDesign to design and produce high resolution publications such as flyers, brochures, business forms and newsletters. Introduces basic design techniques, type and graphic layout and related terminology. Will be involved in producing projects for the community.

Publications II

BU602 - 1 credit

This is a self-directed course in which students will learn yearbook publication and management skills. Each student will be responsible for the design and layout of certain pages in the school yearbook and must comply with strict deadlines issued by the publisher. Introduction to Publications is desired, but not required. Students will learn and use state-of-the-art equipment. This class is limited to six students and students need to commit to be in the class for an entire year. **Prerequisite: Junior or senior or instructor approval.**

Business Math

BU202 - .5/1 credit

This course focuses on practical math skills that affect the student's life both personally and in business. Fundamental math skills and their application for personal use will be covered.

Adobe Photoshop

BU505 - .5 credit

This course shows you how to use Adobe Photoshop to perform many different image processing techniques. In this course, you will learn how to use several tools for selecting parts of images, and will move, duplicate and resize images. You will learn to use layers, layer

effects, filters, painting and blending, and color modification. Also, you will learn how to create images of different formats for different applications.

Adobe Photoshop II

BU507 - .5 credit

This course continues learning new skills in Adobe Photoshop. It expands the knowledge learned in Photoshop I. You will learn more about how to use layers, layer effects, filters, painting and blending, and color modification. Also, you will learn how to create intricate images in different formats for different applications.

College Adobe Photoshop

BU502 - .5 credit

Culminating college concurrent course. After completion of this course students would be prepared to take the Adobe Certified Expert test. Concepts include using Adobe Bridge, camera raw, photo fundamentals, understanding selections, layers and adjustments, editing images, design and print production, working with video and output for web, print and mobile devices.

Illustrator

BU111 - .5 credit

Turn out professional-looking graphics for web or print with Adobe Illustrator software. Through practical exercises, become fluent in the premier program for line art, logos, vector graphics and quick page layout as well as tricks and time efficient techniques to keep work clean and professional.

College Illustrator

BU506 - .5 credit

This is a college level course that utilizes Adobe Illustrator projects and tutorials. These are aligned with industry requirements for graphic design and other production applications. (or Technology or Humanities credit)

Technology Certification

BU303 - .5 credit

Students can select from a number of Microsoft certifications depending upon their interest. They can also choose to study for the A+ certification. The exact certification will be determined with the help of the instructor.

Computer Applications

TE101 - .5 credit

Increase speed and accuracy through drills and correct keyboarding techniques. Learn how to write a formal and informal email. Learn how to use basic spreadsheets. Learn organizational and goal setting skills. Learn how to use tools to help productivity. Work on grammatical skills through letters and email formats. Work on communication and presentation skills.

Beginning Animation / Interactive Media

TE102 - .5 credit

Beginning animation provides an overview of animation history, theory, industry standard software and practice. This class integrates artistic principles with motion and visual design through technology. Students will master the technology, technique, and aesthetics that are the foundation of the art of animation. Students study all aspects of key animation concepts such as

story, storyboard, character, staging, sound, interactivity. Students will study the principles of animation and use programs to explore motion animation and design. Students will use Photoshop to create scenery, develop skills and explore the differences between vector and bitmap based digital artwork. Students will create a unique collection of work based on Colorado Department of Education standards and national standards for visual arts. Our course is focused on 2D animation and visual design. As such we practice animation and design as applied to areas such as film, games, mobile apps, websites, logos and brand identity, and other corporate uses.

Introduction to Programming / C++ Programing

TE103 - .5 credit

This course introduces the student to object-oriented programming through a study of the concepts of program specification and design, algorithm development, and coding and testing using a modern software development environment. Students learn how to write programs in an object-oriented programming language. Topics covered include fundamentals of algorithms, flowcharts, problem-solving, programming concepts, classes and methods, control structures, arrays, and strings. Throughout the semester, problem-solving skills will be stressed and applied to solving computing problems. Projects will show student understanding of the concepts.

HUMANITIES

Required 2 Credits

Art I

HU101 - .5 credit

This is a studio art class, where artists will enjoy the creative process of art production. Art projects will reflect the art student's expressions based on various inspirations: master, modern and contemporary artists, historical art movements and multi-cultural arts. We will explore a variety of materials: pencil, colored pencils, chalk and oil pastels, tempera, acrylic and watercolor paints, as well as, one or more three dimensional and/or printmaking projects. Subject themes will range from traditional portraits, figure drawing, still life and landscapes to non-traditional abstractions, dream imagery/fantasy, visions of the future and folk painting. This course requires a fee of \$10.00.

Band

HU201 - .5 credit

For students with previous band experience, HS Band presents an opportunity to create and perform music in a variety of styles, including but not limited to: traditional concert band, classical, contemporary, popular themes, jazz, latin, rock and much more. Home practice and outside performances are expected of all band members. Performances will include pep band, concerts, and band festivals, as well as opportunities to audition for honor bands throughout the state. This is a year long class.

Jazz Band

HU204 - .5 credit

Contemporary Band courses help students develop their techniques for playing brass, woodwind, percussion, and string instruments, as well as guitars and keyboards, focusing primarily on contemporary stage band literature styles, such as traditional jazz, jazz improvisation, and rock.

Guitar

HU210 - .5 credit

Guitar courses introduce students to the fundamentals of music and guitar-playing techniques, such as strumming and chords. These courses may also include more advanced guitar-playing techniques.

Songwriting and Performance

HU202 - .5 credit

Composition/Songwriting courses prepare students to express themselves thorough creating music. These courses may use conventional or nonconventional notation and may include harmonization in addition to melody writing. Along with musical instruments, students may also use computers for creating music.

Radio Broadcast

HU601 - .5 credit

This course provides student power for the low power FM radio station, KURA, founded by OHS students in January, 2000. The course features engineering, programming, news, sales,

interviewing, and administrative aspects, as well as on-air disc jockey skills. Space is limited. Students should plan to spend some time after school in staff meetings and also with community radio events, fund-raisers, and remote broadcasts (like basketball games.)

Prerequisite: Permission of the staff

Introduction to Film

HU400 - .5 credit

This semester-long course explores the art of film production. Students will watch film and learn script analysis. Students will also learn story-boarding, screenplay writing, casting, production scheduling, filming, and post-production editing.

Film Production

HU401 - .5 credit

This semester-long course will help students further develop skills that were learned in Introduction to Film Production. Students will have the opportunity to focus on areas of interest in film. A final product is the main goal for this class. Although this course is offered each semester, the content varies over the four years of high school. This enables students to take the class more than one time.

History of Rock and Roll

HU115 - .5 credit

Take a tour through time as we cover the birth of Rock and travel through the development of the genre from Elvis to Nirvana and beyond. We will listen to the music and explore the revolution and evolution of society that the music of each period represents. From Teen Idols through the Civil Rights Movement into Vietnam, the Summer of Love, Disco, Funk, Progressive Rock, Punk Rock, Heavy Metal and ending with Hip Hop, Grunge, and Alternative Rock influences. Semester 1 will cover from WW2 to the 1970's and the huge changes in Popular Music as well as society in general. Semester 2 will cover from the 1970's into the 2005 and the many forms that popular music took along the way and the reasons why. Class work would involve watching assigned music videos, learning to analyze music forms and sub-genres, researching music groups and cultural phenomena, putting together research presentations, taking notes in class and occasional open note tests. It will be helpful if each student has their own PED with earphones. Some movies will also be watched in class.

Speech

HU112 - .5 credit

Students learn tools to use in the art of public speaking. This is a performance based class, therefore, speeches will be made in front of peers and general audiences. This is a single semester class.

Acting Shakespeare

HU402 - .5 credit

From the heights of passion to the depths of grief to the ends of hilarious comedy, nobody gave us better words to play with than Shakespeare. Through games and exercises and reading and viewing and playing, this course will teach the basics of acting, so that the words activate our minds, bodies, and emotions. We will bring Shakespeare to life in monologues, scenes, and, by the end of the semester, a production of whichever play the class chooses together.

Intro to Theatre***HU113 - .5 credit***

Introduction to the Theater courses provide an overview of the art, conventions, and history of the theater. Although the courses sometimes include experiential exercises, they emphasize learning about the theater rather than performance. Students learn about one or more of the following topics: basic techniques in acting, major developments in dramatic literature, major playwrights, the formation of theater as a cultural tradition, and critical appreciation of the art.

Theatre II***HU114 - .5 credit***

Drama—Comprehensive courses are intended to help develop students' experience and skill in one or more aspects of theatrical production. Initial courses are usually introductory in nature, providing an overview of the features of drama such as acting, set design, stage management, and so on. The more advanced courses concentrate on improving technique, expanding students' exposure to different types of theatrical techniques and traditions, and increasing their chances of participating in public productions. These courses may also provide a discussion of career opportunities in the theater.

Acting***HU121 - .5 credit***

Drama—Acting/Performance courses are intended to promote students' experience and skill development in one or more aspects of theatrical production, but they concentrate on acting and performance skills. Initial courses are usually introductory in nature, while the more advanced courses focus on improving technique, expanding students' exposure to different types of theatrical techniques and traditions, and increasing their chances of participating in public productions.

Culinary Arts***HU130 - .5 credit***

Nutrition and Food Preparation Nutrition and Food Preparation courses provide students with knowledge and skills about food preparation and/or production, with a strong emphasis on nutrition, balanced diets, and satisfying special dietary needs. Topics typically include assessing nutrient content, the science of food and nutrition, physiology and utilization of nutrients. Course content may also cover additives, contaminants, foodborne illnesses, and food technology.

HEALTH

Required .5 Credit

Health

HE101 - .5 credit

This course will focus on the health needs of teenagers and young adults. Topics covered will be nutrition, eating disorders, sexually transmitted diseases, including HIV and AIDS, sexuality and relationships, fitness, drugs, and alcohol. Students will do research on topics of personal interest.

PHYSICAL FITNESS

Required 1.0 Credit ~ Can be fulfilled through sports participation

Physical Education

PE101 - .5 credit

This course is designed to promote fitness and sport and encourage a life of play and exercise. A wide variety of sports and activities will be covered including team sports, individual sports, weight training, and fitness activities that will help students develop a personal fitness plan.

Outdoor Education (Required Lab)

PE201 - .5 credit

Lab PE202

This course will be practical and field-driven. Using our local setting for a classroom, students will explore the technical aspects of outdoor experience. We will learn outdoor safety rules, outdoor preparedness, first aid skills, rope techniques and knots, outdoor cooking techniques, shelter construction, snow analysis and avalanche safety, river technique, river safety and fire building. Students will experience hiking, mountain biking, alpine and Nordic skiing, kayaking, ice climbing and rock climbing.

TECHNOLOGY

Required 1 Credit (Check listings at the bottom of the document for other courses that qualify as technology credits)

CADD (Computer Assisted Drafting)

TE201 - .5 credit

Computer-aided design systems are used by designers and manufacturers in virtually every industry to create engineering design solutions. In this course, students are introduced to engineering, learning the basics of CAD software: creating points, lines, other geometric forms, isometric drawings, and 3D models. They learn how to translate initial concepts into functional designs and 3D walkthroughs and explore career options in this hands-on introductory-level course.

CISCO CCNA Discovery

BU302 - .5 credit

Provides general networking theory, practical experience, and opportunities for career exploration and soft-skills development. The course teaches networking based on application, covering networking concepts within the context of network environments. The curriculum helps prepare students for globally-recognized Cisco CCENT and CCNA certifications.

IT Essentials

TE301 - .5 credit

PC Hardware and Software curriculum provides an introduction to the computer hardware and software skills needed to help meet the growing demand for entry level information and communication technology professionals. The curriculum covers the fundamentals of PC technology, networking, and security, and also provides an introduction to advanced concepts. Students who complete this course will be able to describe the internal components of a computer, assemble a computer system, install an operating system, and troubleshoot using systems tools and diagnostic software. In addition this course provides a learning pathway to the CCNA Discovery and Exploration curricula. CCNA Discovery curriculum provides general networking theory, practical experience, and opportunities for career exploration and software development.

Introduction to Film

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This semester-long course explores the art of film production. Students will watch film and learn script analysis. Students will also learn story-boarding, screenplay writing, casting, production scheduling, filming, and post-production editing. This course satisfies a Humanities/Technology credit.

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Introduction to Publications**BU600 - .5 credit**

Use Adobe InDesign to design and produce high resolution publications such as flyers, brochures, business forms and newsletters. Introduces basic design techniques, type and graphic layout and related terminology. Will be involved in producing projects for the community.

Publications II**BU602 - 1 credit**

This is a self-directed course in which students will learn yearbook publication and management skills. Each student will be responsible for the design and layout of certain pages in the school yearbook and must comply with strict deadlines issued by the publisher. Introduction to Publications is desired, but not required. Students will learn and use state-of-the-art equipment. This class is limited to six students and students need to commit to be in the class for an entire year. **Prerequisite: Junior or senior or instructor approval.**

Adobe Photoshop**BU505 - .5 credit**

This course shows you how to use Adobe Photoshop to perform many different image processing techniques. In this course, you will learn how to use several tools for selecting parts of images, and will move, duplicate and resize images. You will learn to use layers, layer effects, filters, painting and blending, and color modification. Also, you will learn how to create images of different formats for different applications.

Adobe Photoshop II**BU507 - .5 credit**

This course continues learning new skills in Adobe Photoshop. It expands the knowledge learned in Photoshop I. You will learn more about how to use layers, layer effects, filters, painting and blending, and color modification. Also, you will learn how to create intricate images in different formats for different applications.

College Adobe Photoshop**BU502 - .5 credit**

Culminating college concurrent course. After completion of this course students would be prepared to take the Adobe Certified Expert test. Concepts include using Adobe Bridge, camera raw, photo fundamentals, understanding selections, layers and adjustments, editing images, design and print production, working with video and output for web, print and mobile devices.

Illustrator**BU111 - .5 credit**

Turn out professional-looking graphics for web or print with Adobe Illustrator software. Through practical exercises, become fluent in the premier program for line art, logos, vector graphics and quick page layout as well as tricks and time efficient techniques to keep work clean and professional.

College Illustrator**BU506 - .5 credit**

This is a college level course that utilizes Adobe Illustrator projects and tutorials. These are aligned with industry requirements for graphic design and other production applications.

ELECTIVES

Required 8.0 Credits (Note there are also electives under the subject areas)

ACT Prep (Highly Recommended)**IO301 - .5 credit**

This is a semester long course that follows Health for all 11th grade students. This course is designed to prepare the 11th grade class for their upcoming State level ACT Test in April. The class reviews math, science, writing and reading and discusses strategies for success in taking the record ACT Test in April.

Senior Seminar**IO402 - 1 credit**

Senior Seminar is a comprehensive and mandatory course for all 12th grade students. The course focus is on postsecondary education and other options, and students will explore and thoroughly plan and prepare for life after high school. Planning and applying to colleges and post-secondary opportunities will be the primary goal. Students will participate in every phase of post-secondary planning including college preparation—researching and matching with colleges and occupations, writing personal statements, submitting applications and financial aid forms, applying for scholarships and exploring careers and other post-secondary options. Students will strengthen and develop post-secondary life skills with units and activities regarding campus life, work skills, college issues, and financial education. Each student will fulfill the portfolio requirement through this class in conjunction with senior English course.

Industrial Arts/Intro to Architecture**IA103 - .5 credit**

Students will learn commonly used terms and techniques in Architecture and use CAD programs to understand the construction and marketing of various home designs. Construction Math, blueprint reading and the importance of choosing the right location will be emphasized. Guided tours of Ouray, tours of homes under construction, and tours of our courthouse are scheduled. **(11 students maximum)**

Woodshop I**IA101 - .5 credit**

Students will start with safety rules and tool identification with a strong emphasis on the safe use of power tools. Each student will then do an Orthographic project of a teacher approved project with the estimated cost and accurate measurements. The students will learn about post and beam construction, load bearing walls, and mig welding.

Woodshop II**IA102 - .5 credit**

Industrial Arts courses expose students to the tools and machines that they may encounter in manufacturing-related occupations and enable them to develop the skills they need to use these tools in various applications. Course topics typically include (but are not limited to) drawing and planning, electricity, graphic arts, woodwork, leatherwork, metalwork, plastics, and power technology. These courses typically cover general safety and career exploration as well.

College Flight School**TE502 .5 credit**

The Private Pilot Ground School course is FAA approved under FAR 141 and is offered in cooperation with Colorado Northwest Community College (CNCC). Successful students will receive four credits from this College, and can use these credits in pursuing Associate of Applied Science Degrees and Occupational Certificates in Aviation Maintenance Technology and Aviation Technology at CNCC.

First Responder**HE102 - .5 credit**

This course is designed specifically to give firefighters, law enforcement and other responder's basic life support skills. The training is designed to interface with EMTs and is a good precursor to advanced emergency medical training. This class utilizes local experts in the field for part of the course. A fee may be required for this course. **Prerequisite: Sophomore, Junior or Senior status.**

Health and Life Management**HU122 - .5 credit**

This Health and Life Management course will focus as much on consumer education topics (such as evaluation of consumer information and advertising) as on personal health topics (such as nutrition and stress management). Students will develop techniques to deal with stress and adversity in a positive way. Students will practice yoga, meditation, creative visualization, and journaling as a means to developing coping skills and strategies for any difficulties they may be experiencing. Through cooperative activities and team-building exercises, students will gain confidence in decision-making, leadership, communication, and cooperation. Students will analyze themselves and the world around them as they discover and define their own values, assets, and aspirations. This course will include book studies, applications of stress-management techniques, and a capstone project incorporating problem-solving skills and action steps towards achieving a self-developed vision in our world. This class will help with the transitional goals of Ouray students; students will leave the class with techniques and strategies that will promote life-long learning, health, and happiness.

Lifetime Fitness**PE102 - .5 credit**

Students will learn about & practice ways to keep physically fit for a lifetime. Students will participate in activities such as fitness testing, weight lifting, stretching, and games that are considered lifetime sports.

Social Sciences

Psychology**SS602 - .5 credit**

This course introduces the basic tenets of psychology and explores their application to life. An additional focus is placed on the new field of Positive Psychology, the study of the science of happiness, based in part on the curriculum, designed at Harvard University.

Anthropology**SC503 - .5 credit**

This course can be taken for a semester or for an entire year depending on scheduling. The course will focus on the four themes of Anthropology: Biological, Archeology, Culture, and Linguistics. Students will read short stories and books on a variety of different cultures from past and present. Students will also spend one day a week on researching a culture of their choice to write a research paper in APA format.

Course Listings/Graduation Requirements:

Twenty-eight (28) credits are required for graduation from OHS. Twenty (20) of these credits are specified below for obtaining an Academic Diploma. See course listings under various departments for listing of required classes (*) and electives. "College" before a course title means that the class may be taken for college credit. Several electives will fulfill different credit types. Note: Many courses are offered on rotating years/semesters.

4.0 credits	Language Arts
3.5 credits	Social Studies
3.0 credits	Mathematics
3.0 credits	Science
1.0 credit	Physical Education
2.0 credits	Humanities
1.0 credits	Foreign Language
1.0 credit	Business
1.0 credit	Tech
.5 credit	Health
8.0 credits	Electives

Language Arts (4 credits required):

English 9*

American Literature: English 10*

English 11* (Dramatic Literature, International Literature, or College Writing, or College Literature)

English 12* (Dramatic Literature, International Literature, or College Writing, or College Literature)

Electives:

Journalism

Creative Writing (or Humanities credit)

Speech (or Humanities credit)

Acting Shakespeare (or Humanities credit)

Social Sciences (3.5 credits required):

World Geography 9*

World History 10*

History 11* (American History or AP US History)

US Government 12*

Electives:

AP European History

Current Affairs

Psychology (or Humanities credit)

Mathematics (3 credits required):

Geometry*

Algebra II*

Electives:

Algebra I
Pre-Calculus with Trigonometry
Calculus
Calculus II
College Algebra – Math 113
College Trigonometry
College Pre-Calculus
AP Calculus AB
AP Calculus BC
Accounting (or Business credit)
Business Math (or Business credit)
Personal Financial Management (or Business credit)

Science (3 credits required):

Science 9*
Biology 10* (or College Biology)

Electives:

College Biology 101 (and lab)
College Biology 102 (and lab)
AP Chemistry
AP Environmental Science
Applied Technology
Astronomy
Chemistry
Chemistry in the Community
Physics
Geology
Meteorology
Fringe Science / Astrobiology

Social Sciences (3.5 credits required):

World Geography*
World History*
US History*
AP US History*
US Government*

Electives:

Current Affairs
Economics
Colorado History

Foreign Language (1 credit required):

Spanish I
Spanish II (or Humanities credit)
Spanish III/IV (or Humanities credit)
French I
French II (or Humanities credit)
French III/IV (or Humanities credit)

Business (1 credit required):

Personal Financial Management (or Math credit)
Accounting (or Math credit)
Marketing
Introduction to Publications (or Technology, Humanities credit)
Publications II (or Technology, Humanities credit)
Business Math (or Math credit)
Adobe Photoshop (or Technology credit)
Adobe Photoshop II (or Technology credit)
College Adobe Photoshop (or Technology credit)
Illustrator (or Technology credit)
College Illustrator (or Technology credit)
Technology Certification (or Technology credit)
Beginning Animation / Interactive Media
Introduction to Programming / C++ Programming

Humanities (2 credits required):

Art I
Band
Jazz Band
Guitar
Songwriting and Performance
Radio Broadcast (or Technology credit)
Introduction to Film (or Technology credit)
Film Production (or Technology credit)
Speech (or Language Arts credit)
Acting Shakespeare (or Language Arts credit)
Intro to Theatre
Theatre II
Acting
Culinary Arts

Health (.5 credit required):

Health*
First Responder

Physical Education (1 credit required):

(Note: Each completed season of an OHS sport counts as .25 credits towards P.E. requirement)
Physical Education
Outdoor Education

Technology (1 credit required):

CADD (Computer Assisted Drafting and Design)
CISCO CCNA Discovery
IT Essentials
Introduction to Film (or Humanities credit)
Film Production (or Humanities credit)
Radio Broadcast (or Humanities credit)
Introduction to Publications (or Business credit)
Publications II (or Business credit)
Adobe Photoshop (or Business credit)

Adobe Photoshop II (or Business credit)
College Photoshop (or Business credit)
Illustrator (or Business credit)
College Illustrator (or Business credit)

Other Electives:

ACT Prep
Senior Seminar
Industrial Arts / Intro to Architecture
Woodshop I
Woodshop II
College Flight School
First Responder
Health and Life Management
Lifetime Fitness
Psychology
Anthropology

~Approved on-line courses may be taken with the approval of the Principal.

~Independent study, work experience, and experienced-based programs approved by the Principal may be taken for high school credit upon presentation of an instructional outline and objectives to be monitored by a faculty member.