



**General Information**

<p><b>Registration:</b> Courses listed in this catalog will be included in the curriculum for the school year if there is sufficient enrollment and available staff. Grade levels listed for courses indicate the grade(s) in which the course is normally taken All students will be expected to maintain a full-day schedule of classes to meet the New Mexico State requirements for graduation.</p> <p><b>Placement and Promotion:</b> Recommendations concerning instructional placement of students are the responsibility of the teacher and other professional staff directly involved with the students. The final decision concerning placement rests with the principal.</p> <p>Students progress toward graduation on a course-by-course basis. Students take courses based upon academic performance, academic graduation requirements, and previous credits earned. Graduation requirements are those that are in effect at the time the student entered the 9th grade for the first time.</p> <p><b>Next Step Plans/Transcript Reviews:</b> The Dean of Students will create and/or review Next Step Plans with students at the end of grades 8-12. The plan is used to target post-secondary interests and set forth studies to be completed during high school. Transcripts are reviewed by the Dean of Students at least once per year to ensure students are on track for graduation.</p>	<p><b>Course Requirements:</b> Students are required to complete core classes in mathematics, science, social studies, English Language Arts, physical education, and other subjects. In addition to the core courses, students are required to take elective courses. Students choose electives to customize their educational experience meeting their interests. Offered elective courses may vary and are dependent on the licensure of teachers, the interests of students, and flexibility of the master schedule. Students are encouraged to take Dual Credit courses offered through local colleges.</p> <p><b>Grade Placements:</b>  <u>9th Grade</u>                      Successful completion of the 8th grade.  <u>10th Grade</u>                      6.5 units of credit, 3 from core courses  <u>11th Grade</u>                      12 units of credit, 6.5 from core courses  <u>12 Grade</u>                      19 units of credit, 9 from core courses</p> <p><b>Schedule Changes:</b> Schedule changes for the beginning of each semester will only be allowed during the first 10 days following the start of the semester. To change a schedule, students will complete a drop/add slip to be signed by the teacher of the course being dropped, the teacher of the course being added, and parent/guardian.</p>
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**Required Courses and Credits**

**26 Credits Required**

English = 4 Mathematics = 4 Science = 4 Social Studies = 3.5 Physical Education = 1	Health = 0.5 Career Cluster = 1 Electives = 8 Distance Learning/Honors/ Dual Credit/ AP = yes/no
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**Course of Study****9th grade**

ELA 9

Algebra I

NM History/Health

Integrated Science

PE

Elective

Elective

**10th grade**ELA 10 or Dual Credit English Equivalent

Geometry

Biology

World History

Computer Applications

Elective

Elective

**11th grade**ELA II or Dual Credit English EquivalentAlgebra II or Dual Credit Math equivalent

Chemistry

US History

Elective

Elective

Elective

**12th grade**ELA 12 or Dual Credit English Equivalent4th Year Math - Pre-cal, Applied Math, or Dual Credit Equivalent4th Year Science - Anatomy and Physiology, Physics, or Dual Credit Equivalent

Government &amp; Economics

Elective

Elective

Elective

**Graduation Assessment Requirements:**

The New Mexico Public Education Department has developed a Menu of Options for students to demonstrate competency in the areas of Math, Reading, Writing, Science and Social Studies.

During the spring of junior year, students will take the SAT to demonstrate competency in Math, Reading, and Writing. Scores from the exam may also be used for college entrance. Demonstration of competency for Science and Social Studies will be shown through End of Course exams taken at the end of each course.

The Menu of Options additionally lays out cut scores of national tests such as ASVAB, ACT, and PSAT that students may use to fall back on if they do not meet established cut scores for End of Course Exams and/or SAT.

**Dual Credit Courses:** Dual Credit courses provide students the opportunity to take college courses while in high school. Students receive one full credit at the high school level and three credits at the college or university where the course is taken per semester course. Dual Credit credit courses are free for students. Students must meet prerequisite requirements for courses.

**Honors/Advanced Courses:**

Dual Credit courses are offered to meet the needs of students wishing to take honors or advanced coursework.

## REQUIRED CORE COURSES

### **ENGLISH LANGUAGE ARTS**

#### English I

The 9th grade, one credit, year long course builds on the student's prior knowledge of grammar, vocabulary, word usage and mechanics of writing, and language use. A variety of literature is introduced.

#### English II

The 10th grade, one credit, year long course offers a balanced focus on composition and literature. Students learn about alternate aims and audiences of written composition by writing persuasive, critical, and creative essays and compositions.

#### English III

The 11th grade, one credit, year long course continues to develop students' writing skills through writing based upon literary works where the emphasis on literary conventions and stylistic devices receive greater emphasis than in previous courses. Students learn the techniques of writing research papers.

#### English IV

The 12th grade, one credit, year long course is a study of selected authors and topics improving students' critical reading skills, and ability to respond to print and non-print media. The course offers further development of personal and interpersonal communication skills, essay writing, analytical writing, and technical writing.

### **MATHEMATICS**

#### Algebra I

The 9th grade, one credit, year long course aligns to high school standards for Algebra I. Critical areas of study include relationships between quantities and reasoning with equations; linear and exponential relationships; descriptive statistics; expressions and equations; and quadratic functions and modeling.

#### Geometry

The 10th grade, one credit, year long course formalizes and extends geometric concepts by exploring more complex geometric situations and deepening explanations of geometric relationships. Critical areas of study include congruence, proof, and constructions; similarity, proof, and trigonometry; extending to three dimensions; connecting algebra and geometry through coordinates; circles with and without coordinates; and applications of probability.

#### Algebra II

The 11th grade, one credit, year long course extends the study of functions to include polynomial, rational, and radical functions. The critical areas of study include polynomial, rational, and radical relationships; trigonometric functions; modeling with functions; and inferences and conclusions from data. Passage of the Algebra II End of Course exam or equivalent exam is required for high school graduation.

#### Applied Math

The 12th grade, one credit, year long course provides an understanding of the topics of finance while reinforcing concepts and skills in the high mathematics standards. Topics include income and careers; money management; credit and debt; and savings and investing.

#### Pre-calculus

The 12th grade, one unit, year long course combines the study of Trigonometry, Elementary Functions, Analytic Geometry, and Math Analysis topics as preparation for Calculus. Topics of study include but are not limited to complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric and circular functions and their relations, inverses, and graphs; trigonometric identities and equations; vectors; mathematical induction; and matrix algebra. Recommendation is required.

## **SCIENCE**

### **Integrated Science**

The 9th grade, one credit, full year course introduces students to topics including earth science, space science, physical science, and life science.

### **Biology**

The 10th grade, one credit, full year course provides information regarding the fundamental concepts of life and life processes. Topics covered include cell structure and function, general plant and animal physiology, genetics, and taxonomy.

### **Chemistry**

The 11th grade, one credit, full year course explores the composition, properties, and reactions of substances. Topics include the behaviors of solids, liquids, and gasses; acid/base and oxidation/reduction reactions; and atomic structures.

### **Anatomy and Physiology**

The 12th grade, one credit, full year course presents the human body and biological systems in more detail than the biology course. Students learn anatomical terminology, study cells and tissues, explore functional systems, and may dissect mammals.

### **Physics**

The 12th grade, one credit, full year course introduces the study of forces and laws of nature through lecture and labs. Topics include equilibrium, motion, energy momentum, and the relationships of matter.

### **Environmental Science**

The one credit, full year elective course may count toward a student's fourth year science and is open to students in grades 9-12. The course examines the relationship of organisms and their environment. Topics may include photosynthesis, recycling and regeneration, ecosystems, population and growth studies, and conservation of natural resources.

## **Horticulture**

The one credit, full year elective course may count toward a student's fourth year science and is open to students in grades 10-12. The focus of this course is on the science of plants (botany). Topics include genetics, photosynthesis, cell structure, taxonomy, classification, entomology, soil chemistry, and plant diseases.

## **SOCIAL STUDIES**

### **New Mexico History**

The 9th grade, 0.5 credit, semester course surveys the historical, cultural, economic, and political history of New Mexico and their geographical connections. Students analyze the role that New Mexico plays in national and international arenas.

### **World History and Geography**

The 10th grade, one credit, full year course covers the major eras and important turning points in world history from the Age of Enlightenment to the present. Geographical concepts related changes throughout the world are addressed.

### **United States History and Geography**

The 11th grade, one credit, full year course studies the history and impact of major individuals, eras, and events in United States history from the Civil War to the present. Geographical concepts related to the development of the U.S. are addressed.

### **United States Government**

The 12th grade, 0.5 credit, semester course provides an understanding of the ideals, rights, and responsibilities of citizenship, and the content and history of U.S. founding documents how governments function at the local, state, tribal, and national levels.

### **Economics**

The 12th grade, 0.5 credit, semester course provides an understanding of the basic economic principles and use of economic reasoning skills to analyze the impact of economic systems on individuals, families, businesses, communities, and governments.

**PHYSICAL and HEALTH EDUCATION**

**Physical Education**

The 9th grade, one credit, full year course focuses on the development of the total individual and lifelong personal wellness. The importance of balance in life through personal fitness and wellness are components of the course. The course is co-ed.

**Health**

The 9th grade, 0.5 credit, semester course covers personal health topics such as nutrition, stress management, abuse prevention, disease prevention, and first aid in addition to general health issues including community resources, national health care systems, world health issues, and health related careers. options.

**COMPUTER APPLICATIONS**

**Computer Applications**

The 10th grade, one credit, full year course introduces the basic operations of integrated office software, word processing, spreadsheet and database development, desktop publishing and the use of the internet.

**DISTANCE LEARNING/DUAL CREDIT and HONORS/ADVANCED PLACEMENT**

Students are required to earn one unit of credit by completing Distance Learning, Dual Credit, Honors, or Advanced Placement courses.

**ELECTIVE COURSES**

**AGRICULTURE**

**Introduction to the Science of Agriculture**

The 9th and 10th grade one credit, full year course covers the local, national, and global definitions, history, and scope of agriculture in society. It also covers plant and animal sciences, production and processing; agricultural mechanics, including tool and machine operation; business and natural resource management; management of food and fiber systems; soil characteristics, formation and properties; and development of leadership and communication skills.

**Agricultural Leadership/Communication**

The 10th through 12th grade one credit, full year course is designed to strengthen students' personal and group leadership skills. Topics such as, effective communication, public speaking, human relations, parliamentary law, and group dynamics are covered. Also covered is the development of Programs of Activity, and Service Learning projects, including student development, chapter development, and community development.

**Agricultural Structures and Construction**

The one credit, full year course is available for students in grades 10 - 12. Topics include surveying, concrete and masonry, plumbing, drafting, carpentry and electrical wiring; use of bids and billing information to develop a complete materials list and project cost estimate; use of measurement and layout tools. Procedures for safe operations in the agricultural mechanics laboratory are included in this course. Dual Credit may be available.

**Metal Fabrication for the Agricultural Industry**

The one credit full year course is offered for students in grades 10 - 12. Topics include oxyacetylene and mig welding techniques including cutting, brazing, and welding; Fabrication techniques and project design including estimating and developing materials list. Tool room management and safety procedures are essential to the course. Dual Credit may be available.

### Science of Small Animals

The one credit, full year course is offered for students in grades 10-12. The course imparts information about the care and management of domesticated animals. Animal nutrition, health, reproduction, genetics, facilities, and marketing are all possible topics; Study of anatomy and physiology of livestock and other domesticated animals. Examination of developmental stages and analysis of feed ration for different parts of an animal's life cycle; Identification of environmental factors that affect an animal's performance; Recognition of animal behaviors to facilitate working with animals safely. Specific focus of this course is on small animals including rabbits, fowl, dogs, and cats.

### Agricultural Power and Machinery

The one credit, full year course is offered for students in grades 10 - 12. The course includes maintenance and troubleshooting, and repair of small gas engines, auto and farm equipment maintenance; Identification and comparison of energy sources. Troubleshoot problems and evaluate performance to service and repair components of internal combustion engines. Follow manufacturers' guidelines to service and repair power transmission systems. Utilize maintenance manuals to service and repair hydraulic systems. Utilize schematics to service vehicle electrical systems. Dual Credit may be available.

### BUSINESS AND CAREER

#### General Business

The one credit, full year course is offered to students in grades 9-12. This business and marketing course explores the world of business and marketing. Curriculum will focus on the skills, knowledge, and attitudes demanded by employers in the workplace. Students will study economics, marketing and basic accounting concepts. Emphasis will be placed on business computer applications including word processing, spreadsheets, and databases. Student participation in BPA, is strongly encouraged.

### First Year Experience - College Success (Fall)

The Dual Credit semester course offered through CNM is designed to help 12th grade students achieve greater success in college and in life. Students will learn many proven strategies for creating greater academic, professional, and personal success. Topics may include career exploration, time management, study and test-taking strategies to adapt to different learning environments, interpersonal relationships, wellness management, financial literacy, and campus and community resources.

### Financial Literacy (Spring)

The Dual Credit semester course offered through CNM is offered for students in grade 12 and introduces students to the basics of money management and financial skills necessary to meet real-world challenges. The interactive course covers concepts and decision making through illustrations and real-life problems. Topics covered include budgeting, managing money, borrowing money and planning for the future.

### Publications

The one credit, full year course is offered to students in grades 11-12 who have successfully completed English I, II and Computer Applications. Students create, design, market, produce and sell the school yearbook. Modular layout design, interviewing, writing copy and headlines, editing, advertising sales and design marketing, and business procedures are stressed.

### Student Aide

The one credit, full year course is available for students in grades 11 and 12. The course provides students the opportunity to work in campus offices and classrooms. Depending on placement, students learn professional skills including clerical and office work. Principal approval is required.

### Work Study I, II

Work Study is for students currently employed in grades 11 and 12. The student may earn 1 elective credit by documenting 180 hours of work. Students in this course are required to develop a resume, submit a job description, and a final report, in addition to time sheets and employer evaluations.

**CHESS**

**Chess**

The one credit, full year course is available for students in grades 9-12. The course is designed for students who wish to learn and develop an advanced level of performance skills and knowledge of concepts related to the game of chess. The course will focus on knowledge of rules, principles of chess, chess theory, winning tips, game strategies, and the history of the game. Students will develop skills through a variety of class activities.

**DRIVERS' EDUCATION**

**Drivers' Education-Classroom Only**

The 0.5 credit, semester course is open to students in 9th-12th grade. The course provides students with the knowledge to become safe drivers on America's roadways. Legal obligations and responsibility, rules of the road and traffic procedures, safe driving strategies and practices, and the physical and mental factors affecting the driver's capability (including alcohol and other drugs) are all included as topics of this course.

**FINE and PERFORMING ARTS**

**Creative Art I, II, III, IV**

The one credit, year long course is offered for students in grades 9-12. The course provides students with the knowledge and opportunity to explore an art form and to create individual works of art. Initial courses cover the language, materials, and processes of a work of art. As students advance and become more adept, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic styles. The study of major artists, art movements, and styles may be included in instruction.

**Integrated Fine Arts - Puppet Theater**

The one credit, full year course is offered for students in grades 9-12. The course explores self-expression across the fine arts through puppetry. Students both study and critique the works of others and participate in or produce art themselves. Courses may include comparative study of various art forms over time, i.e., the interrelationship of literature, music, and the performing arts of a particular time period and culture.

**Digital Photography I, II, III, IV**

The one credit, full year course is offered to students in grades 9-12. The course exposes students to the materials, processes, and artistic techniques of taking artistic photographs. Students learn about the operation of a camera, composition, lighting techniques, and depth of field, filters, camera angles, and film development. The course may cover black and white, or color photography, or both. As students advance, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic style. In order to develop each student's style and artistic eye, major photographers, art movements, and styles may also be studied.

**Drama/Stagecraft I, II, III, IV**

The one credit, full year course is available for students in grades 9 - 12. The course is intended to promote students' experience and skill development in one or more aspects of theatrical production. Initial courses are usually introductory in nature, while the more advanced courses concentrate on improving technique, expanding the students' exposure to different types of theatrical techniques and traditions, and increasing their chances of participating in public productions. Career opportunities in the theater may be discussed.

**Guitar**

The one credit, year long course is offered for students in grades 9-12. The course presents fundamentals of music and guitar playing techniques, such as strumming and chords; the courses may include more advanced guitar playing techniques.

## **FOREIGN LANGUAGE and LITERATURE**

### **Spanish I**

The one credit, full year course is available to students in grades 9-12. It introduces students to the basic skills of listening, speaking, reading, and writing and to the basic structures of Spanish taught within the cultural context. Emphasis is placed on oral and written communications skills. Students become more aware of the importance of Spanish in the Global Economy.

### **Spanish II**

The one credit, full year course is available to students in grades 10-12 who have taken and passed Spanish I. The course continues the development of communicative skills in Spanish. There is wider use of Spanish not only in classroom management, but also in teaching concepts. Emphasis is on sustained communication, both oral and written. Appreciation of the culture of Spanish speaking countries is enhanced.

### **Spanish III**

The one credit, full year course is available to students in grades 11 and 12 who have taken and passed Spanish I and II. The course further refines, reinforces, and develops the skills and cultural awareness previously acquired with greater emphasis placed on reading and communicating orally and in writing. The importance of Spanish in career fields is emphasized.

### **Spanish IV**

The one credit, full year course is available to students in grade 12 who have taken and passed Spanish I, II and III and have recommendation of the Spanish Teacher. The course promotes oral and written communication. Selected readings in Hispanic literature, culture, and current events are the focus of this course.

## **PHYSICAL AND HEALTH EDUCATION**

### **Athletic Conditioning**

The one credit full year class is offered for students in grades 9-12. The year-round strength and conditioning course is aimed at improving physical conditioning and athleticism. Students participate in structured weight training, stretching, plyometrics, and running. Meets requirements for 9th grade PE.

### **Co-Ed Physical Education II, III, IV**

The one credit full year course is offered for students in grades 10-12. The course is a continuation of the development of concepts addressed in Physical Education I, including individual life fitness plans, and introduction to an appreciation for lifetime sports.

### **Health and Fitness**

The one credit, full year course is offered to students in grades 9-12. The course combines the topics nutrition, stress management, abuse and disease prevention, and first aid with a fitness component, including aerobic activity and fitness circuits conveying the importance of lifelong wellness habits.

## **PSYCHOLOGY**

### **Psychology**

The one credit, full year course is offered to students in grades 9-12. The course introduces students to the study of individual human behavior. Course content includes an overview of the field of psychology, topics in human growth and development, personality and behavior, and abnormal psychology.

## **STEM**

### **Science Technology/ Engineering**

The one credit year long course is available for 9th-12th grade students. The course offers the opportunity to approach practical, technological problems and to use scientific, experimental skills and processes to reach solutions. Students may use a theoretical framework, or may develop prototypes and working models.