High School
Course Description Book

2017-2018
Every Student Matters. Every Moment Counts.

Vision Statement

Mission Statement

Preparing, empowering, and inspiring all students to reach their maximum potential.
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Century High School General Information

MISSION STATEMENT
Our Mission at Century High School is to prepare each student to contribute to our community and achieve their dreams by building professional skills for their future in a small learning environment that provides consistent support and feedback.

VISION STATEMENT
Preparing students to graduate and achieve their maximum potential as prolific members of society

Los Lunas Schools Distance Learning Academy
The LL Schools Distance Learning Academy (DLA) is also offered at Century High School and provides a quality education for our students where we combine a hybrid setting allowing students to take advantage of a web-based curriculum and increase the student’s ability to understand through small-group and one-on-one tutorials. Students are challenged with a rigorous curriculum where the Distance Learning Academy staff monitor and motivate students to succeed. Students will be required to attend live classes one day a week and will work at their own pace to complete on-line classes. Depending on time constraints and motivation, a student may complete his/her high school course of study ahead of time and graduate early.

Phone: (505) 866-2453
Fax: (505) 866-8064
Los Lunas High School General Information

PO Drawer 1300
Los Lunas NM 87031
Phone: (505) 865-4646
Fax: (505) 565-2847

Mission
Los Lunas High School will establish a student-driven community of life-long learning to promote:

- Rigor
- Pride
- Respect
- Responsibility
- Accountability

Vision
Learn and prepare today, to meet the global challenges of tomorrow.
Valencia High School General Information

P.O. Drawer 1300
Los Lunas, New Mexico 87031
Phone: (505) 565-8755
FAX: (505) 565-8762

Mission:
The Valencia High School Community is dedicated to providing lifelong learning opportunities, expecting exemplary academic performance for all students.

Vision:
We will achieve this through:
• Ensuring high academic learning for every student
• Creating a collaborative Professional Learning Community culture
• Using data analysis to drive the school improvement process
• Providing a safe and respectful environment
• Providing personalized growth for all students
**General Information**

The Course Description Book is designed to guide high school students and parents in the Los Lunas School District in their selection of appropriate course work during high school. Students have the opportunity to choose from a wide selection of course offerings. Important things to look for when using the Course Description Book are: career pathways, course prerequisites, school where the course is offered and course fees.

Parents/guardians are encouraged to be a major part of the course selection and registration process. The school can help and guide, but it is parents and guardians who will truly make a positive difference in their student's education.

Research shows that the graduation rate is higher for students who participate in clubs or sports. Students may become involved by joining a variety of clubs that support their learning and personal growth. Los Lunas Schools also offer numerous athletic programs in which students can participate.

The course description book may be updated during the course of the school year to reflect the most current direction from the New Mexico Public Education Department and Board Policies. **If courses do not receive adequate enrollment requests, the course may not be offered.** The most current editions may be found on the district website at: [www.llschools.net](http://www.llschools.net).

**Programs and Support Services**
- Advisory Periods
- Advanced Placement
- AVID (Advancement Via Individual Determination)
- Bilingual/ESL
- Credit Recovery Edgenuity
- Concurrent Enrollment
- Distance Learning
- Dual Enrollment-University of New Mexico Valencia Campus (UNMVC), Eastern New Mexico University, Central New Mexico Community College (CNM)
- GEAR UP (LLHS)
- General Use Computer Labs
- Health/Nurses Office
- Native American Liaison
- Professional Learning Communities (PLCs)
- Response to Intervention (RTI)
- Counseling Services
- Career Pathways – Next Step Plan
- Special Education Continuum of Services
- Student Assistance Team
- Internship Programs
- Zero Hour
Classification of Students

Students who fail to meet the credit requirements for grade advancement will remain in the same grade level the following school year. In some cases, credit deficiencies may be made up in summer school or credit recovery courses. Final determination of grade level placement will be made in August after summer school.

| Credits Required for Graduation = 24 |
|---|---|
| **At the beginning of the School Year** | **Credits Needed** |
| 9\textsuperscript{th} Grade | 0 |
| 10\textsuperscript{th} Grade | 4 |
| 11\textsuperscript{th} Grade | 10 |
| 12\textsuperscript{th} Grade | 16 |

Los Lunas Schools Graduation Requirements

Students are encouraged to make the most of their time in high school. To fulfill their post-secondary goals, courses from this Course Description Book can provide them with a solid foundation of knowledge and skills to succeed after high school. The graduation requirements listed below meet the minimum requirements prescribed by the Public Education Department. Successful completion of the following course work is expected of graduating students from Los Lunas Schools.

| 4 units English |
| 4 units Math |
| (one unit equal to or greater than Algebra II) |
| 3 units Science |
| • Must include 2 lab sciences |
| 3.5 units Social Studies |
| • .5 Econ |
| • .5 Gov't |
| • 1 US History |
| • 1 World History |
| • .5 NM History |
| .5 unit Health |
| 1 unit Physical Education |
| 8 units Electives |
| (including:1 unit career cluster, workplace readiness, or language other than English) |
| **Total Credits: 24** |
| One of the above courses must be Pre-AP, AP, Dual Credit or Distance Learning |
**Academic Letter**
If a student maintains a 3.5 grade point average for the first semester, as well as the first and second grading periods of the second semester, they will be eligible to receive an academic letter.

**Advanced Placement (AP) and Pre-AP**
The Advanced Placement Program (AP) is a cooperative educational endeavor between secondary schools and colleges and universities. Since its inception in 1955, the program has provided motivated high school students with the opportunity to take college level courses in a high school setting. Students who participate in the program not only gain college-level skills, but in many cases also earn college credit while they are still in high school which in turn saves on tuition costs. AP teachers follow course guidelines developed and published by the College Board. To enroll in an AP course, students and parents are required to sign an agreement accepting the work load of the rigorous curriculum and acknowledge that schedules will not be changed. AP grades are weighted (A=5.0, B=4.0, C=3.0). **AP grades are the only weighted grades on a student’s transcript. Parents will be required to attend an AP meeting in the spring.**

Pre-AP prepares a growing number of students, especially those traditionally under-represented in AP courses, for the challenges offered by the Advanced Placement Program. The goal of Pre-AP programs is to prepare students for high academic standards, greater inclusion, increased communication, coordination, enthusiasm, and empowerment. It also creates closer ties between AP courses and the courses preceding them, and the wider dissemination of successful teaching strategies. Listed below are just a few benefits of AP and Pre-AP coursework:

- Students will gain college-level analytical, communication and study skills as well as academic confidence.
- Students learn a subject in greater depth.
- Students demonstrate to colleges their willingness to undertake a challenging curriculum.
- Students can earn college credit and or advanced standing at over 90% of U.S. colleges and universities if they successfully pass an AP examination.
- Students can gain national recognition.

**Advancement Via Individual Determination (AVID)**
The AVID program is designed to increase school wide learning and performance for students in grades 9-12. Its purpose is to restructure the teaching methods of an entire school and to open access to the curricula that will ensure four-year college eligibility for the majority of students. Freshmen, sophomores, juniors, and seniors will be able to apply to participate in the class. Students will be notified of their acceptance prior to final registration. Sophomores in the AVID course will be involved in at least one Pre-AP course. Juniors will be enrolled in at least one AP course.

**Advisory**
The overall goal of the Advisory is to strengthen and extend academic skills in order to support and prepare students for rigorous coursework throughout high school and beyond.

**Alternative Programs**
Individual Education Programs (IEPs) and service delivery models are designed to fit the needs of each student as per the IEP team and may include the following services: speech and language, occupational therapy, physical therapy, assistive technology, general education, special education, or related licensed/certified personnel may deliver modifications.

**Concurrent Enrollment**
If students meet the college criteria, they are allowed to sign up for off-site courses offered at the college. Counselors will ask for proof of registration before a student’s schedule will be adjusted to accommodate the off-site class and students must provide an official transcript after course is completed. College courses do not receive weighted credit.
Course Requests
Students must select a first, second, third, and fourth choice for elective classes. **A minimum number of students enrolled for a course is required for courses to be offered.** If a student’s first choice cannot be honored, an attempt will be made to honor their second or third request.

Credit Recovery Courses
Credit recovery is offered to students who have failed a course through a computer-based program. Counselors will determine student need and register the student in the appropriate course. Credit is granted when student completes course with a 70% or higher.

The following is a list of Edgenuity/Credit Recovery Courses offered in the Los Lunas District:

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Course Name</th>
<th>Course Name</th>
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<tbody>
<tr>
<td><strong>Language Arts</strong></td>
<td><strong>Science</strong></td>
<td><strong>Electives</strong></td>
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<tr>
<td>Language Arts 9</td>
<td>Earth Science</td>
<td>Health</td>
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<tr>
<td>Language Arts 10</td>
<td>Physical Science</td>
<td>Introduction to Art</td>
</tr>
<tr>
<td>Language Arts 11</td>
<td>Biology</td>
<td>Spanish I</td>
</tr>
<tr>
<td>Language Arts 12</td>
<td>Chemistry</td>
<td>Spanish II</td>
</tr>
<tr>
<td><strong>Math</strong></td>
<td><strong>Environmental Science</strong></td>
<td><strong>Psychology</strong></td>
</tr>
<tr>
<td>Algebra 1</td>
<td>Physics</td>
<td>Strategies for Academic Success</td>
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<tr>
<td>Geometry</td>
<td><strong>Social Studies</strong></td>
<td>Computer Literacy</td>
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<tr>
<td>Algebra 2</td>
<td>World History</td>
<td>Sociology</td>
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<tr>
<td>Mathematical Models and Applications</td>
<td>US History</td>
<td>Digital Arts I</td>
</tr>
<tr>
<td>Financial Math</td>
<td>Government</td>
<td>Engineering Design I</td>
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<tr>
<td></td>
<td>Economics</td>
<td>Game Design</td>
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<tr>
<td></td>
<td>NM History</td>
<td>3D Art I - Modeling</td>
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<tr>
<td></td>
<td></td>
<td>Intro to Health Sciences</td>
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</tbody>
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Distance Learning
Los Lunas Schools offers distance learning courses through Edgenuity, UNM-VC and CNM. Distance Learning allows students to earn high school credit which satisfies the graduation requirement requiring students to graduate with an Advanced Placement, Dual Credit, Distance Learning, or Concurrent Enrollment course.

Dual Enrollment
Dual credit is a program that allows high school students to enroll in college-level courses offered by a post-secondary institution that may be academic or career-technical but not remedial or developmental. Dual enrollment allows students to simultaneously earn credit toward high school graduation and a post-secondary degree or certificate (Statewide Dual Credit Master Agreement). Students receive one high school credit for each 3-5 college credit class completed. Some courses require placement exams. Dual Credit courses do not receive weighted credit (with the exception of AP courses that are also dual credit).

Early Finals
Students requesting to take their final exams early at the end of first or second semester must obtain approval through the site administrator. Request must be made by parent/guardian.

Early Graduation
Due to PED testing requirements, early graduation most likely will not be an option prior to the end of the first semester (December) of the student’s senior year. Students will need to meet with their assigned counselor to discuss individual circumstances. **Students who graduate early will not have the opportunity to be valedictorian or salutatorian.**
**FAFSA**
The Free Application for Federal Student Aid or FAFSA is the first step in the financial aid process. It is used to apply for federal student financial aid, such as the Pell Grant, student loans and college work-study. In addition, most states and schools use FAFSA information to award their financial aid. The FAFSA is available online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov) beginning October 1st of each year. Visit the website for more details and/or stop by the counseling office for more information. A PIN number is also required for students & parents.

**Foreign Exchange Students**
Los Lunas Schools must be notified as soon as possible, prior to the beginning of the school year, that the exchange student is scheduled to attend. Once the school has reached the maximum number of five (5) foreign exchange students, no more will be accepted for that school year. Upon proper verification, foreign exchange students shall be placed in 11th grade only. Grade eleven is the preferred placement as the standard curriculum course sequence provides the maximum exposure to United States history and American literature. If appropriate, a foreign exchange student may be placed in English as a Second Language (ESL) class. Foreign exchange students are required to take the same course sequence as all other grade level students. Los Lunas Schools will not issue a diploma to a foreign exchange student. Exchange students completing a full year of course work at Los Lunas/Valencia High will receive a transcript of work completed.

**Grading Policy**
The grading policy consists of letter grades and may include commentary from teachers about skills, work habits, and knowledge.
- A= 90%-100%
- B=89%-80%
- C=79%-70%
- D=69%-60%
- F=59%-50%

Edgenuity=70% (passing)

**HomeSchool**
Homeschooled students who come from an accredited program will receive credit only with a passing grade.

**NCAA Clearinghouse**
If a student is entering a Division I or Division II College or University the NCAA Clearinghouse will evaluate their transcript for eligibility. You must have 16 core credits to be eligible to practice, play and receive athletic scholarships at a Division I or Division II school. The additional courses may come from any of the following areas: English, math, science, social science, foreign language, non-doctrinal religion, philosophy, or computer science. The new requirements also include a revision in the Division I initial eligibility index, or sliding scale.

The 16 courses are:
- 4 years of English
- 3 years of math (Algebra I or higher)
- 2 years of natural/physical science (one must be a lab science)
- 2 year of additional English, math or natural/physical science
- 2 years of social studies
- 4 years of additional core courses (from any area listed above, or from foreign language, non-doctrinal religion, or philosophy).

Only core courses that appear on the high schools list of NCAA courses on NCAA Eligibility Center’s website [www.eligibilitycenter.org](http://www.eligibilitycenter.org) will be used to calculate the core course GPA. If you have not met all the Division I academic requirements, you may not compete in your first year at college. However, if you qualify as an academic redshirt you may practice during your first term in college and receive an athletics scholarship for the entire year. If you enroll full-time at a Division II school before Aug. 1, 2018, and you have not met all the Division II academic requirements, you may not compete in your first year. However,
if you meet the requirements to be a partial qualifier, you may practice and receive an athletics scholarship in your first year at college. More information can be found at https://web3.ncaa.org/ecwr3/

New Student Registration
Students must be accompanied by a parent/legal guardian. At the time of entry, an original birth certificate, immunization records, proof of residency (utility bill, rent receipt, purchase agreement), and unofficial copy of transcript should be provided. The registrar will send for the official copy, but an unofficial copy is crucial for course placement. Students who have an Individualized Education Plan (IEP) should also provide a copy of this document to Los Lunas Schools Special Services before enrolling to ensure appropriate course placement in the Least Restrictive Environment.

Parent Involvement (School Advisory Council – SAC)
In accordance with NM House Bill 212 and Los Lunas Schools Board of Education Policy, the School Advisory Council (SAC) assists the school principal with school-based decision-making. The Student Advisory Council (SAC) involves parents and staff in important school matters.

Records Office
A cumulative record is kept and maintained by the registrar. This record consists of the student’s transcript, immunization record (filed in school health office), test scores, report cards, records from previous schools and registration/withdrawal forms. All requests for transcripts must be made in writing and 24-hour notice must be given. Requests can be made by fax from the student’s high school. Please include the following information with your request:

- Date of birth
- Year of graduation
- Full name of student while attending high school
- Written consent from the adult aged student or former student for an individual to pick up the transcript for them.

All seniors who plan to go to college need to request that their final transcript be sent to the college of their choice. Requests need to be submitted to the Registrar’s office by senior check-out day.

Renaissance
The purpose of Renaissance is to encourage students to come to school, be on time to class, and excel in academics and behavior. Students who meet the criteria may be issued awards and recognitions during the school year.

Scheduling Procedures
Parents are required to participate in this important process, and teacher advisors will add their expertise to ensure the student is on track to graduate. Every attempt will be made to place students in requested courses. However, if the need arises due to scheduling conflicts, students will be placed in one of their alternate choices. A minimum number of students are required for courses to be offered. After receiving their schedules, students may request changes following the Schedule Change Policy.

Schedule Change Policy
If a student needs a schedule change after pre-registration occurs, counselors will work with students on an individual basis to correct their schedule. Dislike for a teacher or disciplinary problems ARE NOT valid reasons for requesting a schedule change. Students and parents may not request a specific teacher. In addition, all schedule change requests will be based upon space available.

Acceptable reasons for schedule changes are as follows:

1. Students needing courses for graduation
2. Students with a partial schedule
3. Students who lack a prerequisite for a class
4. Incorrect placement as determined by the teacher and administration
Procedures for a schedule change:
1. A “Request for Schedule Change” form can be obtained from the counseling office. This must be completed and signed by the student AND parent.
2. The completed form and the requested schedule change should be made before the end of the second week of the Fall semester.

Sex Education
Parents of secondary students shall be notified via the course description in the course catalogue that a course addresses sexuality issues. A waiver is available for all or certain portions of the health or related courses for moral, conscientious, or religious objections. (Los Lunas Schools Policy 6.5.2)

Testing
The following tests are offered to students:
- The PSAT is a Pre-SAT exam that may be offered to 10th and 11th graders as a practice college entrance exam. If the student shows Advanced Placement (AP) potential, the student should consider enrolling in AP classes.
- Juniors must take the PSAT in order to compete for National Merit Scholarships.
- The Aspire Test is a pre-ACT that may be offered to 10th graders.
- The SAT and ACT are college entrance exams and are usually taken during the 11th or 12th grade years.
- The ASVAB is an aptitude test offered to any student.
- Advanced Placement (AP) exams are offered to students that are enrolled in AP courses. Students who take AP courses and cannot afford the price of the exam may apply for financial assistance.

Transfer Student Information
Student enrolling after semester has started that have been in school.
To the extent possible, students who transfer into the Los Lunas Schools in the middle of an academic semester will be enrolled in courses that are similar to those in which they had been enrolled at their previous school.
In the event that, due to course offerings, a student is unable to enroll in a course that is similar to one in which he or she had been enrolled, the student will be given the opportunity to enroll in an alternate course that will not result in the denial of credit to the extent practical in the school setting; for example, if the student can “catch up” in the class or perform adequately without having completed the first part of the class.
Determinations of credit for transfer students will be based on a review of individual circumstances. This determination will be made by school administration. The Los Lunas Schools does not guarantee course credit if a student is unable to complete a course due to a transfer.

Valedictorian/Salutatorian Selection

VALEDICTORIAN
The highest academic honor will be awarded to the graduating senior(s) who meet(s) ALL of the following requirements:
1. The student has the highest cumulative Grade Point Average (GPA) at the conclusion of the 8th term.
2. The student meets all course graduation requirements as established by Los Lunas Schools.
3. The student is in good standing at the time of graduation.
4. Advanced Placement (AP) classes are the only weighted classes included in figuring Grade Point Average (GPA).
5. Each year guidance counselors will meet with students individually who are in contention for Valedictorian.

SALUTATORIAN
The second highest academic honor will be awarded to the graduating senior(s) who meet(s) ALL of the requirements above.
Zero Hour: Before and After School Classes

Classes of 2018 & 2019
Cumulative GPA’s for students who enroll in these classes will be affected.

Class of 2020 & 2021
Before and after school classes taken for high school credit will not be calculated into the GPA.
# Los Lunas High School Career Pathways

*This is not a complete list of possible pathways. Refer to the Course Description Catalog and see a guidance counselor to construct the most appropriate Next Step Plan for your interests, goals and possible IEP needs.

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<th>General Program of Study</th>
<th>9&lt;sup&gt;th&lt;/sup&gt; Grade</th>
<th>10&lt;sup&gt;th&lt;/sup&gt; Grade</th>
<th>11&lt;sup&gt;th&lt;/sup&gt; Grade</th>
<th>12&lt;sup&gt;th&lt;/sup&gt; Grade</th>
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<tbody>
<tr>
<td>English</td>
<td>1001-English I</td>
<td>1002-English II</td>
<td>1003-English III</td>
<td>1004-English IV</td>
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<td>2031-Algebra I</td>
<td>2034-Geometry</td>
<td>2041-Algebra II</td>
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<td>2034-Geometry</td>
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<td>2047-Math Analysis</td>
<td>2053-Pre-Calculus</td>
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<td>2047-Math Analysis</td>
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<td>2053-Pre-Calculus</td>
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<td>Science</td>
<td>1741-Integrated Science</td>
<td>1711-Biology</td>
<td>1721-Chemistry</td>
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<td>Social Studies</td>
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<td>1401-Health</td>
<td>1252-Spanish I</td>
<td>1253-Spanish II</td>
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<td>Elective</td>
<td>2305-Physical Education</td>
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### Agriculture

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<td>1162-Art II</td>
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<td>1181-Art IV or</td>
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<td>1123-Marching Band III or 1122-Concert Band III or 1149-Symphonic Band III</td>
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<td>1125-Jazz Band I or 1125 Jazz Band Swing Cats</td>
<td>1125-Jazz Band II or 1125 Jazz Band Swing Cats and II</td>
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<td>1615-Intro to Engineering Design</td>
<td>1617-Principles of Engineering</td>
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<td>1619-Civil Engineering and Architecture</td>
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<td>1621-Aerospace Engineering and Design</td>
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<td>1595-Health Careers</td>
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<td>0151-Agricultural Mechanics I</td>
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# Valencia High School Career Pathways

*This is not a complete list of possible pathways. Refer to the Course Description Catalog and see a guidance counselor to construct the most appropriate Next Step Plan for your interests, goals and possible IEP needs.

<table>
<thead>
<tr>
<th>General Program of Study</th>
<th>9th Grade</th>
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<td>1001-English I</td>
<td>1002-English II</td>
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<td>2034-Geometry</td>
<td>2041-Algebra II</td>
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<td>2043-Trigonometry</td>
<td>2047-Math Analysis</td>
<td>2053-Pre-Calculus</td>
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<td><strong>Science</strong></td>
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<td>1711-Biology</td>
<td>1721-Chemistry</td>
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<td>2706-World History</td>
<td>2729-U.S. History</td>
<td>2741-Economics</td>
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<td>0912-Auto II Automotive Technology Comprehensive</td>
<td>0921-Auto Tech 3</td>
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<td>1123-Marching Band I or 1125-Jazz Band I</td>
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<td>1123-Marching Band III or 1125-Jazz Band II</td>
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Course Descriptions

English

All students must complete four English credits (English I, II, III, IV) for graduation. Los Lunas Schools encourages all students to challenge themselves academically by enrolling in dual credit and advanced placement courses.

<table>
<thead>
<tr>
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<th>Dual Credit</th>
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<th>Grade Level</th>
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NOTE: ACCUPLACER Test determines Dual Enrollment Eligibility

English Course Descriptions:

1001 English I
Grade: 9
Credit: 1
Course builds upon the students’ prior knowledge of grammar, vocabulary, word usage, and mechanics of writing, and usually includes the four aspects of language use: reading, writing, speaking, and listening. Usually, the various genres of literature are introduced and defined, with writing exercises often linked to reading selections.
*(Pre AP)

1002 English II
Grade: 10
Credit: 1
Course offers a balanced focus on composition and literature. Typically, students learn about the alternate aims and audiences of written compositions by writing persuasive, critical, and creative multi paragraph thematic essays and compositions. The study of literature encompasses various genres as students improve their reading rate and comprehension and develop the skills to determine authors’ intent and theme and to recognize the techniques employed by the author to achieve the goal.
*(Pre AP)

1003 English III
Grade: 11
Credit: 1
Course continues to develop students’ writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and begin to learn the techniques of writing research papers. Students continue to read works of literature, which often form the backbone of the writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses. Preparation for the PSAT may be included.
1012  AP English III Language and Composition  
Grade:  11  
Credit:  1  
Course is designed to parallel college level English courses, AP English Language and Composition courses expose students to prose written in a variety of periods, disciplines, and rhetorical contexts. Emphasis is placed on the interaction of authorial purpose, intended audience, and the subject at hand; students learn to develop stylistic flexibility as they write compositions covering a variety of subjects and intended for various purposes. This course is intended to prepare students for the optional Advanced Placement Exam in this subject and should follow the published College Board guidelines. *(DC) 

1004  English IV  
Grade:  12  
Credit:  1  
Course blends composition and literature into a cohesive whole, as students write critical and comparative analyses of selected literature. Typically, multi paragraph essays predominate as the form of student composition, but one or more major research papers may also be written. 

1013  AP English IV Literature and Composition  
Grade:  12  
Credit:  1  
Course is designed to parallel college level English courses, AP English Literature and Composition courses enable students to develop critical standards for evaluating literature. Students study the language, character, action, and theme in works of recognized literary merit; enrich their understanding of connotation, metaphor, irony, syntax, and tone; and write compositions of their own (including literary analysis, exposition, argument, narrative, and creative writing). This course is intended to prepare students for the optional Advanced Placement Exam in this subject and should follow the published College Board guidelines. *(DC) 

1031  Academic Reading  
Grade:  9  
Credit:  1 Elective Credit  
Note: Student assessments determines placement  
Course offers students the opportunity to focus on their reading skills. Assistance is targeted to students' particular weaknesses, and is designed to bring struggling readers' reading comprehension up to the desired level, or to develop strategies to read more efficiently in order to progress through school.
<table>
<thead>
<tr>
<th>Course #</th>
<th>Dual Credit</th>
<th>Title</th>
<th>Grade Level</th>
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<td>LLHS, VHS, CHS</td>
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<tr>
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<td>10-12</td>
<td>LLHS, VHS, CHS</td>
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</table>

Bilingual Education Program Descriptions:

**1063 English as a Second Language I, II, III, IV (ESL) as part of a Bilingual Education**
Grades: 9 – 12
Credit: 1
Prerequisite: Take courses in sequence
Note: This class fulfills the English credit requirement for the student.
This course aligns with grade-level New Mexico Common Core State Standards for English Language Arts and the current English Language Development (ELD) Standards. This course integrates grade-level ELA content, uses ELD standards, and instructional strategies to appropriately scaffold for the English language development of English Language Learner (ELL) students. Teachers must have received specialized training in serving the needs of ELLs (a TESOL endorsement) in addition to secondary licensure for English Language Arts. Course 1063 may be substituted for 1001, 1002, 1003 and 1004 to receive high school graduation credit, where applicable, if 1063 also meets all course requirements for 1001, 1002, 1003 or 1004. See course descriptions for 1001, 1002, 1003 or 1004 above for more information. Course 1063 may also be substituted for 1000 if it also satisfies all course requirements for 1000. This course may be repeated for credit. *(B)*

**1271 Spanish for Native Speakers I**
Grades: 9 – 12
Credit: 1
Prerequisite: Recommendation
Course supports, reinforces, and expands students’ knowledge of home language. Because students have already been exposed to their home/heritage language, they understand at least the rudiments and structure of the language, and have a working vocabulary (to a greater or lesser degree). Courses in Language for Native Speakers often move faster than do Foreign Language courses, and may be structured similar to an English Language Arts course (Reading, Writing, Listening and Speaking, with the study of literature and composition). This course must incorporate the study of the culture, history, and traditions of the community. This course must be taught in the target language.

**1272 Spanish for Native Speakers II**
Grades: 10 – 12
Credit: 1
Prerequisite: Spanish for Native Speakers I & Recommendation
Course further reinforces and expands students' knowledge of their home/heritage language. This course emphasizes deeper development of skills (Reading, Writing, Listening and Speaking) with a study of short stories, novels, plays, poetry.
Mathematics

Students are required to complete four math credits. Los Lunas Schools requires that all students take a math course each year of high school and encourages all students to challenge themselves academically by enrolling in dual credit or advanced placement courses. Recommended sequence: Algebra I, Geometry, and Algebra II; the fourth math credit should align with students’ post-secondary and career goals.

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<th>Course #</th>
<th>Dual Credit</th>
<th>Grade Level</th>
<th>Offered at:</th>
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<td></td>
<td>LLHS</td>
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Course Descriptions:

2019 Academic Math
Grade: 9
Credit: 1 Elective
Cannot count as one of the four math credits required for High School Graduation. This class will be offered in conjunction with a regular course and will offer the extra support some students may need in order to be successful in the regular course. The teacher of this course will be guided by the Standards-based core curriculum of the regular course and will emphasize the skills, concepts and processes needed by the students. An intervention program can be thought of as a cycle consisting of three phases: diagnostic assessment, instructional actions and follow-up assessment.

2031 Algebra I
Grades: 9 – 10
Credit: 1
Course includes the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and solving simple quadratic equations. Review topics: ratio and proportion, operations with sets, simplifying radical expressions, operations with exponents, and solution of simple linear equations. Enhancement topics: field properties and theorems, set theory, solving systems of linear equations and inequalities, and solving and graphing more complex quadratic equations.
**2034  Geometry**  
Grades:  9 – 11  
Credit:  1  
Prerequisite:  Algebra I  
Course emphasizing an abstract, formal approach to the study of geometry, include topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; rules of congruence, similarity, parallelism, and perpendicularity; and rules of angle measurement in triangles, including trigonometry, coordinate geometry, and transformational geometry. Review topics: basic measurement, perimeter, area, and volume, and inductive methods of reasoning. Enhancement topics: topology, locus, and non-Euclidean geometries. *(Pre-AP)*

**2034  Pre-AP Geometry**  
Grades:  9 – 10  
Credit:  1  
Pre-AP Geometry is a year-long intensive math course designed to prepare students for the accelerated pace of our advanced coursework. Pre-AP Geometry includes an in-depth analysis of plane, solid, and coordinate geometry as they relate to both abstract mathematical concepts, as well as real-world problem solving situations. Students will become familiar with inductive and deductive reasoning through a rigorous construction of proofs. Students in Pre-AP Geometry are continually expected to explain their thinking, analyze problems from multiple perspectives, and participate in classroom discussions. Students will read, analyze problems with contextual situations.

**2097  Financial Literacy**  
Grades:  12  
Credit:  1  
Prerequisite: Algebra II  
Course provides an understanding of the concepts and principles involved in managing one’s personal finances. Topics may include savings and investing, credit, insurance, taxes and social security, spending patterns and budget planning, contracts, and consumer protection. An overview of the American economy may be provided. This course material is often included in the Family Living or Life Skills courses.  
NCAA Clearinghouse does not accept Financial Literacy as a math credit.

**2041  Algebra II**  
Grades:  9 – 12  
Credit:  1  
Prerequisite:  Geometry  
Course topics include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher degree equations; and operations with rational and irrational exponents. Review topics: operations involving real numbers, evaluating rational algebraic expressions, solving and graphing first degree equations and inequalities, operations with and factoring of polynomials, and solving simple quadratics. Enhancement topics: the complex number system; polynomial, logarithmic, and exponential functions, relations, and their graphs; conic sections; elementary probability and statistics; matrices and determinants; sequences; and series.

**2044  Pre-AP Algebra II**  
Grades:  9 – 11  
Credit:  1  
Prerequisite:  Pre AP Geometry  
Course combines topics from both of these courses for students who have attained Algebra I and Geometry objectives. Topics include field properties and theorems; set theory; operations with
rational and irrational expressions; factoring of rational expressions; in depth study of linear
equations and inequalities; quadratic equations; solving systems of linear and quadratic equations;
graphing of constant, linear, and quadratic equations; properties of higher degree equations;
operations with rational and irrational exponents; right trigonometric and circular functions,
inverses, and graphs; trigonometric identities and equations; solutions of right and oblique triangles;
complex numbers; and numerical tables. Review topics: operations involving real numbers,
evaluating rational algebraic expressions, solving and graphing first degree equations and
inequalities, operations with and factoring of polynomials, and solving simple quadratics.
Enhancement topics: polynomial, logarithmic and exponential functions and graphs; conic sections;
vectors; graphing in the polar coordinate system; elementary probability and statistics; matrices
and determinants; and sequences and series. *(Pre AP) (DC)

2029 Statistics
Grades: 11 – 12
Credit: 1
Prerequisite: Algebra II
Course emphasizes both descriptive and inferential statistics. Topics include event probability;
probability distributions including binomial and normal distributions; analysis of data; measures of
central tendency and variability; random variables; random sampling; central limit theorem;
confidence intervals; and hypothesis testing. Enhancement topics: nonparametric statistics,
multinomial theorem and chi square tests, ordinary least squares, and simple regression.

2047 Math Analysis
Grades: 11 – 12
Credit: 1
Prerequisite: Algebra II with a grade of “C” or better or Instructor Recommendation
Course includes the study of polynomial, logarithmic, exponential, and rational functions and their
graphs; vectors; set theory; Boolean algebra and symbolic logic; mathematical induction; matrix
algebra; sequences and series; and limits and continuity. Review topics: right trigonometric and
circular functions and their graphs, and other trigonometry topics. Enhancement topics: elementary
probability and statistics, derivatives, and integrals.
*(DC) students must complete Math 121

2053 Pre-Calculus
Grades: 11 – 12
Credit: 1
Prerequisite: Pre AP Algebra II/Trigonometry or Math Analysis with a grade of “C” or
better and instructor recommendation
Course combines the study of Trigonometry, Elementary Functions, Analytic Geometry, and Math
Analysis topics as preparation for calculus. Topics include the study of complex numbers;
polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their
relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique
triangles; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic;
mathematical induction; matrix algebra; sequences and series; and limits and continuity. Review
topics: structure of the real number system, solutions of linear and quadratic equations and systems
of these equations. Enhancement topics: elementary probability and statistics, derivatives, and integrals. *(DC)

2058 AP Calculus AB
Grades: 11 – 12
Credit: 1
Prerequisite: Pre-Calculus with a grade of “C” or better
AP Calculus AB provides students with an intuitive understanding of the concepts of calculus and
experience with its methods and applications. These courses introduce calculus and include the
following topics: elementary functions; properties of functions and their graphs; limits and continuity;
differential calculus (including definition of the derivative, derivative formulas, theorems about
derivatives, geometric applications, optimization problems, and rate of change problems); and
integral calculus (including anti-derivatives and the definite integral). This course is intended to
prepare students for the optional Advanced Placement Exam in this subject and should follow the published College Board guidelines. *(DC)

2059 AP Calculus II BC
Grades: 12
Credit: 1
Prerequisite: Pre-Calculus with a grade of “C” or better and instructor recommendation
Course combines the study of Trigonometry, Elementary Functions, Analytic Geometry, and Math Analysis topics as preparation for calculus. Topics include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity. Review topics: structure of the real number system, solutions of linear and quadratic equations and systems of these equations. Enhancement topics: elementary probability and statistics, derivatives, and integrals. *(DC)

2060 AP Statistics
Grades: 11 – 12
Credit: 1
Prerequisite: Algebra II with a grade of “C” or better and teacher recommendation
AP Statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data (observing patterns and departures from patterns), planning a study (deciding what and how to measure), anticipating patterns (producing models using probability theory and simulation), and statistical inference (confirming models). This course is intended to prepare students for the optional Advanced Placement Exam in this subject and should follow the published College Board guidelines. *(DC)
Science

All of the following courses meet state standards for a science credit toward graduation. Students are required to complete three science credits, two of which must be laboratory sciences. LLS recommends that students take a science course each year of high school to complete four science credits and encourages all students to challenge themselves academically by enrolling in dual credit, honors and advanced placement courses. Recommended sequence: Integrated Science, Biology, and Chemistry or Physics; the fourth science credit should align with students’ post-secondary and career goals. All LLS Science courses satisfies the laboratory science requirement for graduation.

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Science Course Descriptions:

1741 Integrated Science
Grade: 9
Credit: 1
Lab Fee: $5.00 per semester
Integrated Science emanates from suggestions made by the American Association for the Advancement of Science (AAAS) and the National Association for the advancement of Science. This course draws from the principals of several scientific specialties; earth science, physical science, biology, chemistry and physics. Common themes include systems, models, energy, patterns, change, and constancy. Appropriate aspects from each specialty are used to investigate applications of the theme.

1711 Biology I
Grades: 9-10
Credit: 1
Lab Fee: $5.00 per semester
Course is designed to provide information regarding the fundamental concepts of life and life processes. Topics covered include (but are not restricted to) cell structure and function, general plant and animal physiology, genetics, and taxonomy. *(Pre-AP)
1721 Chemistry I
Grades: 10–12
Credit: 1
Prerequisite: Algebra II with a “C” or better
Lab Fee: $5.00 per semester
Course involves the composition, properties, and reactions of substances. The behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure are typical concepts explored in Chemistry-First Year courses. Chemical formulas and equations and nuclear reactions are also studied. *(DC)

1725 AP Chemistry
Grade: 11-12
Prerequisite: Chemistry I, Biology I, and Algebra II
Lab Fee: $5.00 per semester
This course provides in depth and advanced treatment of general chemistry principles following Advanced Placement guidelines. The first half of the course includes the study of atomic and molecular structure, chemical reactions and equations, solution chemistry, periodicity, and properties of the elements. The second half continues with chemical equilibrium, chemical bonds and energies, acids and basic chemical analyses, organic chemistry, and nuclear studies.

1722 Community Chemistry
Grades: 10-12
Credit: 1
Lab Fee: $5.00 per semester
Course developed by the American Chemical Society, Chemistry in the Community is an interdisciplinary chemistry course designed for students who desire an understanding of chemical concepts and applications but who do not plan to pursue science based careers.

1735 Physics I
Grades: 10-12
Credit: 1
Prerequisite: Algebra II
Lab Fee: $5.00 per semester
Course involves the study of the forces and laws of nature affecting matter: equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, magnetic, and electric phenomenon.

1713 Anatomy
Grades: 11 – 12
Credit: 1
Pre requisite: Biology I
Lab Fee: $5.00 per semester
Anatomy and Physiology courses present the human body and biological systems in more detail. In order to understand the structure of the human body and its functions, students learn anatomical terminology, study cells and tissues, explore functional systems (skeletal, muscular, circulatory, respiratory, digestive, reproductive, nervous, and so on), and may dissect mammals.

1701 Earth Science
Grades: 10 – 12
Credit: 1
Pre requisite: Biology I
Lab Fee: $5.00 per semester
Providing a geology education supplies the student with a basic understanding of how our planet works and changes throughout time. This knowledge can be applied to making wise decisions in the future with regard to available resources. This course deals with the dynamics of plate tectonics, rock formation, Earth history, Earth material movement, hydrology, mining, and minerals. Physics
and chemistry are applied in a meaningful pursuit for empirical evidence. It includes observation techniques and incorporated practical field study experience. The beauty of geology is that it is truly everywhere.

1718  **Forensic Science**  
**Grades:**  11 - 12  
**Credit:**  1  
**Prerequisites:**  Biology I or Chemistry I, plus teacher recommendation  
**Lab Fee:**  $5.00 per semester  
Course will present the unifying principals of forensic science, discuss the foundation of forensic science in basic science and mathematics, and introduce the technique of integrating these areas in the determination of the cause of death. The philosophical, rational and practical framework that supports a forensic investigation will be presented via an integrated curriculum. Students will study forensic anthropology, biochemistry, chemistry, botany, entomology and physics as well as problem solving techniques utilized in analyzing a crime scene. Other topics include ballistics, autopsies, and mass disasters, epidemiology of environmental disaster, biological weapons as well as toxicology, microbiology, and pathology.

1752  **AP Environmental Science**  
**Grades:**  10 – 12  
**Credit:**  1  
**Prerequisite:**  Any ONE of the following: Integrated Science or Biology I or Chemistry I or Earth Science  
**Lab Fee:**  $5.00 per semester  
Course provides 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 solutions/strategies for resolving and/or preventing them. This course is intended to prepare students for the optional Advanced Placement Exam in this subject and follows the published College Board guidelines.

1761  **Astronomy**  
**Grades:**  11 – 12  
**Credit:**  1  
**Prerequisite:**  Algebra I  
**Lab Fee:**  $5.00 per semester  
Course offers the opportunity to study the solar system, stars, galaxies, and interstellar bodies; astronomic instruments are usually introduced and used in the course of this study. Theories regarding the origin and evolution of the universe, space, and time might also be explored.

1715  **AP Biology**  
**Grades:**  10 – 12  
**Credit:**  1  
**Prerequisite:**  Biology I  
**Lab Fee:**  $5.00 per semester  
Course is designed to parallel college level introductory biology courses; AP Biology courses stress basic facts and their synthesis into major biological concepts and themes. Three general areas are covered: molecules and cells (including biological chemistry and energy transformation); genetics and evolution; and organisms and populations (i.e., taxonomy, plants, animals, and ecology). AP Biology courses include college level laboratory experiments. This course is intended to prepare students for the optional Advanced Placement Exam in this subject and should follow the published College Board guidelines. *(DC)*
1739  AP Physics 1

Grades:  10 – 12
Credit:  1
Prerequisite:  Algebra II
Lab Fee:  $5.00 per semester
Course is designed to parallel college level physics courses that provide a systematic introduction to the main principles of physics and emphasize problem solving without calculus. Course content includes the following areas: mechanics; electricity and magnetism; modern physics; waves and optics; and kinetic theory and thermodynamics. This course is intended to prepare students for the optional Advanced Placement Exam in this subject and should follow the published College Board guidelines.

1740  AP Physics 2
Grades:  11-12
Credit:  1
Lab Fee:  $5.00 per semester
Explore topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics.

1712  Zoology
Grades:  11-12
Credit:  1
Lab Fee:  $5.00 per semester
Zoology is the broad survey of animal life which is a follow up to the study of biology. In zoology students have the opportunity to expand their knowledge and apply the principles based on the general process of biology, evolution, metabolism, cell theory, genetics and ecology. The study of zoology is essential to anyone wishing to pursue further studies in animal science, wildlife management, ecology, agriculture, veterinary science or medicine.

0873  Math Engineering Science Achievement (MESA)
Grades:  9-12
Credit:  1
Prerequisite: “C” or higher in Algebra I
Course Fee: $10.00/ semester
Course incorporates hands on, real-world math activities into a variety of practical scientific situations by using experimental skills and processes to reach solutions. Students are challenged to discover hidden principles of math, science, engineering, and technology and apply these principles through the use of critical thinking, problem solving, and decision making by using theoretical frameworks, and by developing prototypes and working models.
Social Studies
All of the following courses meet state standards for social studies credit toward graduation. Students are required to complete three and one-half social studies credits for graduation. Los Lunas Schools encourages all students to challenge themselves academically by enrolling in dual credit and advanced placement courses. The recommended sequence: New Mexico History, World History, U.S. History, and Government/Economics.

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<th>Course #</th>
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<th>Title</th>
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Social Studies Course Descriptions:

2717  New Mexico History
Grade:  9
Credit:  .5
Note: This course is scheduled with Health
This survey course supports students to become more knowledgeable and aware of the historical, cultural, economic, and political history of New Mexico and their geographical connections. Students will analyze the role that New Mexico plays in national and international arenas. The 9-12 Social Studies Content Standards, Benchmarks, and Performance Standards should be included as appropriate to the course.

2706  World History and Geography
Grades:  10
Credit:  1
Course covers the major eras and important turning points in world history from the Age of Enlightenment to the present. Included within this course is world geography to support geographical concepts as they relate to the understanding of the changes throughout the world. In addition, 9-12 Social Studies Benchmarks and Performance Standards (History, Civics and Government, Economics and Geography) should be included as appropriate to the course.
*(Pre AP)
2729  U.S. History/Geography  
Grade:  11  
Credit:  1  
Course examines the history and impact of major eras, events, and individuals in United States history since the Civil War and Reconstruction. Included within this course is U.S. Geography to support geographical concepts as they relate to the understanding of the development of the United States. In addition, 9-12 Social Studies Benchmarks and Performance Standards (History, Civics, and Government, Economics and Geography) should be included as appropriate to the course.

2725  AP U.S. History  
Grade:  11  
Credit:  1  
Course prepares students for the AP exam in U.S. history and provides students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in United States history. Students learn to assess historical materials, and to weigh the evidence and interpretations presented in historical scholarship. The course examines time periods from discovery and settlement of the New World through the recent past. (Note: Districts asking to meet the United States History/Geography course requirement through this course include geography within the written and delivered curriculum in order to meet state graduation requirement. Included within this course is U.S. Geography to support geographical concepts as they relate to the understanding of the development of the U.S.) This course is intended to prepare students for the optional Advanced Placement Exam in this subject and should follow the published College Board guidelines.

2730  Government  
Grade:  12  
Credit:  .5  
Note:  This course is paired with Economics  
This course provides an understanding of the ideals, rights, and responsibilities of citizenship in order to understand the content and history of the founding documents of the United States including the New Mexico and United States Constitutions and how governments function at the local, state, tribal, and national levels. In addition, 9-12 Social Studies Benchmarks and Performance Standards (History, Civics, and Government, Economics and Geography) should be included as appropriate to the course.

2741  Economics  
Grade:  12  
Credit:  .5  
Note:  This course is paired with Government  
Required for Graduation - Course provides for an understanding of basic economic principles and use of economic reasoning skills to analyze the impact of economic systems (including the market economy) on individuals, families, businesses, communities, and governments. In addition, 9-12 Social Studies Benchmarks and Performance Standards (History, Civic and Government, Economics and Geography) should be included as appropriate to the course.

2737  AP Government and Politics  
Grades:  12  
Credit:  1  
Note:  This course is paired with AP Macroeconomics  
Course prepares students for the AP exam in U.S. Government and Politics. 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 course generally covers the following topics: constitutional underpinnings of 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. This course is intended to prepare students for the optional Advanced Placement Exam in this subject and should follow the published College Board guidelines.
2744 AP Macroeconomics
Grades: 12
Credit: 1
Note: This course is paired with AP Government and Politics
Course is designed to parallel a semester of college level macroeconomics. AP Macroeconomics courses provide students with a thorough understanding of the principles of economics that apply to an economic system as a whole, placing particular emphasis on the study of national income and price determination, and developing students’ familiarity with economic performance measures, economic growth, and international economics. This course is intended to prepare students for the optional Advanced Placement Exam in this subject and should follow the published College Board guidelines. *(DC)

2710 AP European History
Grades: 11 – 12
Credit: 1
Prerequisite: World History
Elective course prepares students for the AP exam in European history. The course examines European civilization from the High Renaissance period to the recent past, provide a basic exposure to the factual narrative, and develop a) an understanding of some of the principal themes in modern European history, b) an ability to analyze historical evidence, and c) an ability to express that understanding and analysis in writing. This course is intended to prepare students for the optional Advanced Placement Exam in this subject and should follow the published College Board guidelines.

2776 Social Psychology
Grades: 10 – 12
Credit: 1 (elective credit)
Course introduces students to the study of individual human behavior. Course content typically includes (but is not limited to) an overview of the field of psychology, topics in human growth and development, personality and behavior, and abnormal psychology.

2773 AP Psychology
Grades: 11 – 12
Credit: 1 (elective credit)
Course designed to parallel introductory college level psychology course. Courses introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals, exposes students to major sub-fields within psychology, and enables students to examine methods psychologists use in their science and practice. This course is intended to prepare students for the optional Advanced Placement Exam in this subject and should follow the published College Board guidelines. *(DC)

2761 Law Studies I
Grades: 10 – 12 LLHS, 9 – 12 VHS
Credit: 1 (elective credit)
In this course, we will examine society's response to crime and the social science of criminology. Our primary focus will be placed on criminal justice in the United States, especially urban America, and how we balance the rights of individuals with the need to maintain public order. We will consider the development of the criminal justice system while framing crime in the context of our culture. Students will evaluate our current system and propose ways to shape the system to meet the needs of our society. We will explore some key traditional elements of the criminal justice system, including the courts, police, and corrections. We will attempt to answer questions, such as: Why is criminal justice carried out in the current manner? This course is designed for students to evaluate social patterns and how an individual's background impacts the criminal justice process.
2764  Law Studies II  
Grades: 11 – 12 LLHS  
Credit: 1 (elective credit)  
Prerequisite: Law Studies I  
Course examines the workings of the U.S. criminal and civil justice systems, including an understanding of civil and criminal law and the legal process, of the structure and procedures of courts, and the role of various legal or judicial agencies. Although emphasis is placed on the legal process, the history and foundation of U.S. law (Constitution, statutes, and precedents) may also be included. Content may also include contemporary problems in the criminal justice system.

2799  Introduction to Criminal Justice  
Grades: 9 – 12  
Credit: 1 (elective credit)  
Introduces the structural framework for the criminal justice system in the United States. The function, role and practices of the police, the courts and corrections will be explained and career opportunities in the administration of justice are explored. *(DC)

2799  Criminal Law  
Grades: 10 – 12  
Credit: 1 (elective credit)  
Prerequisite: Introduction to Criminal Justice  
Covers the historical development, elements and goals of common and statutory criminal laws, which control actions in the criminal justice system. *(DC)

2799  Criminal Procedure  
Grades: 11 – 12  
Credit: 1 (elective credit)  
Examines the method of enforcing the substantive criminal law. Includes the process of applying the established law, constitutional law, rules of evidence, case law and an understanding of the logic used by the courts. *(DC)

2799  Juvenile Justice and Procedure  
Grades: 11 – 12  
Credit: 1 (elective credit)  
Covers the juvenile court and justice system including the Children's Code of the Rules of Procedure. *(DC)
**Physical Education/Health**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Dual Credit</th>
<th>Title</th>
<th>Grade Level</th>
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<td>9</td>
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<tr>
<td>2304</td>
<td></td>
<td>Team Sports I, II, III</td>
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<td>✓ ✓</td>
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<tr>
<td>2314</td>
<td></td>
<td>Fitness I, II, III</td>
<td>10-12</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>2322</td>
<td></td>
<td>Weight Training I, II, III</td>
<td>10-12</td>
<td>✓ ✓</td>
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<td>1401</td>
<td></td>
<td>Health</td>
<td>9-12</td>
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<tr>
<td>1540</td>
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<td>Sports Medicine I, II</td>
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</table>

**Physical Education/Health Course Descriptions:**

**2305  Physical Education**  
Grade: 9  
Credit: 1  
Note: Dressing out required  
LLHS & VHS: Uniform can be purchased from PE teachers for $20  
This course provides the instruction and development of skills in human movement, physical activities, and physical fitness. This course must include all of the physical education content standards with 12th grade benchmarks and may be taken to meet the high school graduation requirement.

**2304  Team Sports I, II, III**  
Grades: 9-12  
Credit: 1  
Note: Dressing out required  
Course that provides instruction and skill development in selected team sports. Offered in a boy’s section and a girl’s section.

**2314  Fitness I, II, III**  
Grades: 10 – 12  
Credit: 1  
Note: Dressing out required  
Prerequisite: Take in course sequence  
This course provides instruction and development of skills in physical fitness. Students will learn the benefits of cardiovascular fitness and components of athletic development along with health and life skills.

**2322  Weight Training I, II, III**  
Grades: 10 – 12  
Credit: 1  
Note: Dressing out required  
Prerequisite: Take in course sequence. Grade of “D” or better in PE.  
This course teaches techniques of fitness using resistance training and in more advanced cases emphasis on more specific target areas. Free weights, dumb bells, variable resistors, nautilus equipment, and calisthenics are used to accomplish improved fitness levels to increase lean body mass, endurance, and work intensity.
**Health**

Grades: 9 – 12  
Credit: .5  

Note: This course is paired with NM History and is a graduation requirement for the Class of 2017  

Health education is designed to provide information to help students make positive life choices and reduce their risk behaviors. Course topics may vary but typically include: overview of all body systems, disease prevention and control; mental and emotional health; physical; nutrition; fitness HIV/AIDS and other STD prevention; tobacco, alcohol, and other drug prevention; community health; and consumer health.

**Sports Medicine I, II**

Grades: 10-12  
Credit: 1  

This course is a study and analysis of injuries commonly associated with athletes. The roles of the athletic trainer, physician and coach are examined as they relate to the physiological and psychological welfare of the athlete. The lab portion of the class will be integrated during the semester.

**Alternative Programs – (Students with IEP)** Students with exceptionalities are scheduled according to individual academic, and/or social needs. Student case managers will work in collaboration with school guidance counselors and parents to ensure appropriate placement and course scheduling.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Dual Credit</th>
<th>Title</th>
<th>Grade Level</th>
<th>Offered at:</th>
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</table>

**Alternative Program Course Descriptions:**

**Math I, II, III**

Grade: 9 -12  

Course emphasis is on individual student progress. Resource Center Math includes the study of general math topics, such as arithmetic using rational numbers, numeration systems and place value, basic geometry, and basic statistics. These courses also apply these skills to real world problems and situations. This course is intended to provide students the individual services needed to meet their individualized education program (IEP). Topics are determined by individual student need and grade level.
2899  Functional Academics I, II, III, IV  
Grades: 9 – 12  
Credit: 1  
**Prerequisite: Take courses in sequence**  
Course provides students with educational services and resources as needed. Reinforcement of any content area may be offered with the use of specific materials or teaching techniques through group instruction or individual tutorial assistance.

2806  Daily Living I, II, III, IV  
Grades: 9 – 12  
Credit: 1  
**Prerequisite: Take courses in sequence**  
Course places a special emphasis on the student's relationship to the surrounding community. Instruction varies with the students and their needs and IEP's; however, these courses provide the skills necessary for independent functioning within the surrounding environment. Course topics may include available community resources and how to access them; emergency skills; and independent living strategies.

0143  Greenhouse I, II  
Grades: 9 – 12  
Credit: 1  
**Prerequisite: Take courses in sequence**  
This course covers greenhouse/nursery operation and management. Plant propagation including grafting, budding, and layering. Students are often involved in the planning, management, and marketing associated with the school greenhouse/nursery.

2807  Job Competency I, II, III, IV  
Grades: 9 – 12  
Credit: 1  
**Prerequisite: Take courses in sequence**  
Course is vocationally oriented, and designed for students with special needs. A modified program to meet the requirements demanded by a variety of work situations is emphasized. Emphasis is placed on work-related vocabulary, methods, manners, and ethics. This class may be taught in the classroom, greenhouse, or other campus settings such as the cafeteria, offices or with the custodians. Visits to community sites to observe a variety of vocational requirements and opportunities may be provided.

2804  Recreation and Leisure I, II, III, IV  
Grades: 9 – 12  
Credit: 1  
**Prerequisite: Take courses in sequence**  
Course, individualized according to each student's condition and needs, are designed to improve a student's ability to move about and communicate within their surrounding communities (school, neighborhood, workplace, and city or town). The student may be exposed to and assisted in several types of situation to improve the student's mobility and increase the available response options.

2806  Social Development Instruction I, II, III, IV  
Grades: 9 – 12  
Credit: 1  
**Prerequisite: Take courses in sequence**  
Course teaches students the social skills needed for independent functioning within the community. Topics may include self-control, self-expression, obeying rules, decision making, appropriate situational behavior, and how to interact with others and maintain relationships. Students may develop independence, self-confidence, and self-reliance.
2808  Work Study I, II  
Grade:  12  
Credit:  1  
Course includes all work experience options described in IEP’s. Work sites may be on or off campus and the work may result in stipends or wages.

0202  Business Explorations I  
Grade:  9-12  
Credit:  1  
Prerequisite:  Take courses in sequence  
Course provides numerous opportunities to explore and understand the responsibilities duties common to most office personnel; including: communication skills, reception and transmission of information via electronic media, filing and electronic record keeping, mail handling, scheduling meetings, and varied computer applications to include word processing, spreadsheets, presentation software, and internet.

0203  Business Explorations II  
Grade:  10-12  
Credit:  1  
Prerequisite:  Business Explorations I  
This course will expand on skills presented in Business Explorations I. Student will be constructing resumes, completing job applications, participate in mock interviews, have the opportunity to hear and interact with guest speakers from the business community, as well as participate in field trips into the community for observation and research of various job and business opportunities.

1073  Communication Skills I  
Grade:  10-12  
Credit:  1  
Prerequisite:  Take courses in sequence  
Course emphasizes writing, speaking, and developing skills that will afford students success throughout school and post high school years.

1074  Communication Skills II  
Grade:  10-12  
Credit:  1  
Prerequisite:  Communication Skills I  
This course will expand on skills presented in Communication Skills I. Students will develop an understanding of all types of communication, including speaking and listening skills, understanding spoken and written communication as well as body language. Students will develop goals for themselves based on identifying their own communication strengths and weaknesses as well as prepare for post-secondary settings.
Army JROTC

<table>
<thead>
<tr>
<th>Course #</th>
<th>Dual Credit</th>
<th>Title</th>
<th>Grade Level</th>
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<td>LLHS, VHS, CHS</td>
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<tr>
<td>2199</td>
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<td>Military Skills I, II, III</td>
<td>10-12</td>
<td>VHS, CHS</td>
</tr>
</tbody>
</table>

Army JROTC Course Descriptions:

2111  JROTC/Leadership Education Training LET I, II, III, IV
Grades: 9 – 12
Credit: 1
Prerequisite: Take courses in sequence

Course sequences may vary, but the primary objectives of Military ROTC courses include instruction in the history, organization, role, objectives, and achievements of a particular branch of the United States Armed Forces; development of personal fitness, strong character, and leadership qualities; and exposure to the career opportunities provided by the military. Military customs, courtesies, rank, drill, and ceremonies are typically included as course topics; citizenship and scholarship are often emphasized as well. Subjects related to the particular branch being studied (such as map reading, nautical skills, homeland security, rifle marksmanship, CPR/first aid, and basic teaching principles), as well as more general subjects (international law, weaponry, celestial navigation, and geopolitical strategy) may also be included as part of the course content. LLHS: Military uniform will be issued and required to wear all day on the Uniform Wear and Inspection Day.

2199  MILITARY SKILLS I, II, III
Grades: 10-12
Credit: 1
Prerequisites: JROTC I
Lab Fee: LLHS: $50 or parental contract to help with fundraisers for the same amount.
Monies will be used for entry fees for competitions during the school year.

Military Skills I introduces the cadet to fundamental skills necessary to compete against other cadets of the same or different services in competitions (e.g., drill, air rifle, color guard, physical fitness) or public performances throughout the year. The student gains communication and leadership skills. Areas of emphasis include, but are not limited to, marksmanship, drill and ceremony, color guard, physical fitness, and career exploration.
**AVID (Advancement Via Individual Determination)**

These courses are designed to help first-generation college students get through a rigorous high school curriculum with the help of weekly AVID tutorial sessions. The mission of this program is to ensure that all students, especially those who are academically “in the middle,” self-motivated, and determined are successful in participating in a rigorous curriculum, in mainstream school activities, and also in becoming educated, responsible, and organized participants and leaders in a democratic society. AVID Elective students are expected to maintain an AVID binder, an agenda, a cumulative GPA of a 2.5, and exemplary leadership and determination.

Students must complete a student application packet in order to be considered for placement in the AVID Elective class. The application packet includes: a written student interview, face-to-face interview, and a teacher recommendation letter. Current AVID Elective students must complete a Letter of Intent to ensure their enrollment for the next school year.

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<tr>
<th>Course #</th>
<th>Dual Credit</th>
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<td>0894</td>
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<tr>
<td>0895</td>
<td>AVID 12</td>
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</tbody>
</table>

**AVID Course Descriptions:**

**0892 AVID 9**
Grade: 9  Credit: 1  
**Prerequisite:** AVID 9 Student must go through the application and interview process with the AVID elective coordinator and take courses in sequence.  
Advancement Via Individual Determination (AVID 9) is an academic elective course that prepares students for college readiness and success. It is scheduled during the regular school day as a year-long course. Each week, the students receive instruction utilizing a rigorous college preparatory curriculum provided by AVID Center, AVID tutorials, motivational activities and academic success skills. In AVID, students participate in activities that incorporate strategies focused on writing, inquiry, collaboration, organization, and reading to support their academic growth.

**0893 AVID 10**
Grade: 10  Credit: 1  
**Prerequisite:** AVID 10 or student must go through the application and interview process with the AVID elective coordinator.  
Advancement Via Individual Determination (AVID 10) is an academic elective course that prepares students for college readiness and success. It is scheduled during the regular school day as a year-long course. AVID 10 continues to assist students in becoming aware of interests, talents, abilities, as well as planning for personal and academic development and refining personal and academic goals. Sophomores enrolled in AVID 10 must also be enrolled in at least one Pre-AP course.
AVID 11
Grade: 11
Credit: 1
Prerequisite: AVID 11 or student must go through the application and interview process with the AVID elective coordinator.

Advancement Via Individual Determination (AVID 11) is an academic elective course that prepares students for college readiness and success. It is scheduled during the regular school day as a year-long course. This course emphasizes rhetorical reading, analytical writing, collaborative discussion strategies, AVID tutorials, preparation for college entrance and placement exams, college study skills, and test-taking strategies, note-taking and research. Juniors enrolled in AVID 11 must also be enrolled in at least one AP or DC course.

AVID 12
Grade: 12
Credit: 1
Prerequisite: AVID 12 or student must go through the application and interview process with the AVID elective coordinator.

Advancement Via Individual Determination (AVID 12) is an academic elective course that prepares students for college readiness and success. It is scheduled during the regular school day as a year-long course. This course continues to emphasize rhetorical reading, analytical writing, collaborative discussion strategies, AVID tutorials, preparation for college entrance and placement exams, college study skills, and test-taking strategies, note-taking and research. College essays, interviews, and decision factors for college selection are addressed as well. All AVID 12 students must apply to at least one four-year college or university during their enrollment in AVID 12.

Business Technology

<table>
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<tr>
<th>Course #</th>
<th>Dual Credit</th>
<th>Title</th>
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<td>CHS</td>
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<td>2808</td>
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<td>Work Study</td>
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</table>

Business Technology Course Descriptions:

**0225 Financial Services: Making Money Work**
Grades: 10-12
Credit: Distance Learning CNM 3 credit hours
Course provides students with an overview of types of consumer financial institutions and the services and products they offer. Course content may include checking, savings, and money market accounts; loan and investments. This course provides an explanation of how a career choice can affect financial decisions. This is a distance learning class offered through CNM *(DC)

**0302 Computer Applications**
Grades: 9 – 12
Credit: 1
Class Fee: $5.00
Prerequisite: Must have basic keyboarding skills
Course is designed for students with an interest in exploring the uses of the personal computer, General Computer Applications courses provide experience in the proper use of previously written software packages. A wide range of applications is explored, including (but not limited to) word processing, spreadsheet, graphics, and database programs. Electronic mail and desktop
publishing may also be included. Exercises and problems may be from any field, or may be defined by the student(s). *(DC)

1802 Marketing
Grades 10 – 12
Credit: 1
Course focuses on the wide range of factors that influence the flow of goods and services from the producer to the consumer. This course is usually offered as a series. Marketing - Fundamentals courses include a variety of topics related to providing goods and services, such as market research, the purchasing process, distribution systems, warehouse and inventory control, salesmanship, sales promotions, shoplifting and theft control, business management entrepreneurship and pricing and packaging. Human relations, employability skills, computers, math skills, and economics are also covered. Job and career exploration to include work site experiences are an integral emphasis of Marketing - Fundamentals.

0208 Work Study
Grade: 12
Credit: 1
Prerequisite: Minimum employment of 15 hours a week required.
The student, teacher, and employer will set goals cooperatively: classroom attendance, related training experience, and it is suggested employment is aligned with student's career pathway. Goals are set for the employment period and related classroom experiences will align with occupational training in the field. Improvement of employability skills and discussion regarding the experiences and problems encountered on the job will also be included in classroom activity.

Career Technical
Agriculture

<table>
<thead>
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<th>Course #</th>
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</table>

Agriculture Course Descriptions:

0134 Agriculture I
Grades: 9 – 12
Credit: 1
Class Fee: $20.00
Note: FFA dues are separate from class fee.
The course covers the global market place, development of a Program of Activities, leadership development, and history of FFA.

0137 Agricultural II - Leadership/Communication
Grades: 10 – 12
Credit: 1
Class Fee: $20.00
Note: FFA dues are separate from class fee.
The course is designed to strengthen students’ personal and group leadership skills. Topics such as public speaking, effective communication, 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. *(DC)*

0136  **Agricultural III - Applied Science in Agriculture**  
**Grades:** 11 – 12  
**Credit:** 1  
**Prerequisite:** Agricultural II  
**Class Fee:** $20.00  
**Note:** FFA dues are separate from class fee.  
Specific subject matter covered in this course includes current issues relevant to the agricultural industry, marketing and sales techniques. Disease and parasites effecting the various breeds of livestock; Animal welfare and relationship to the human environment; May include the horticultural practices of greenhouse management; fruit, nut and vegetable production; and landscaping principles; Forest fire prevention and techniques, public and private land forests; Wildlife mammals, waterfowl, freshwater fish, and game management. *(DC)*

0135  **Agricultural IV - Environmental, Animal, Plant in Ag**  
**Grades:** 12  
**Credit:** 1  
**Prerequisite:** Agricultural III  
**Class Fee:** $20.00  
**Note:** FFA dues are separate from class fee.  
Topics covered in this course include animal science with emphasis on the feeding and management of breeds of livestock, digestive systems, and classes of feed and feed additives. Entomology topics are characteristics, development and physiology of insects, and integrated pest management. Introduction to forestry, range, and wildlife management are also included in this course. *(DC)*

**Automotive**

<table>
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<th>Course #</th>
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0912  **Automotive Technology Comprehensive**  
**Grades** 9-12  
**Lab Fee:** $15.00  
Automotive Technology Comprehensive emphasizes the diagnosis and repair of automobile engines and support systems such as brakes, cooling, drive trains, electrical components, emission, fuel, ignition, steering, suspension and transmissions. The comprehension and use of manuals, safety and employability skills (including shop management and entrepreneurship) are often included as course topics. Each component of this course will be taught separately (diagnostic, brake systems, electrical system repair, steering and suspension, emission control) and students will have the opportunity to receive dual credit from UNM-VC as described in the college catalogue. *(DC)*
0920  Automotive Technology 2  
Grades 10-12  
Lab Fee:  $15.00  
This course takes students to the next level in knowledge and skill of Automotive Technology. The emphasis of this course will be Electrical Systems Overhaul. Students will have the opportunity to receive dual credit from UNM-VC. *(DC)

0921  Automotive Technology 3  
Grades 11-12  
Lab Fee:  $15.00  
This course in the automotive program is meant to take students into higher level knowledge and skill development. Students will be involved in a practicum. Students will have the opportunity to earn ASE/NATEF certifications and dual credit through UNM-VC. *(DC)

Sheet Metal

<table>
<thead>
<tr>
<th>Course #</th>
<th>Dual Credit</th>
<th>Title</th>
<th>Grade Level</th>
<th>Offered at:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LLHS</td>
<td>VHS</td>
<td>CHS</td>
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</tr>
<tr>
<td>2413</td>
<td></td>
<td></td>
<td></td>
<td>Sheet Metal I, II</td>
</tr>
</tbody>
</table>

Sheet Metal Course Descriptions:

2413  Sheet Metal I, II  
Grades:  10 – 12  
Credit:  1  
Class Fee:  $10.00  
Prerequisite:  Take courses in sequence  
Note:  SkillsUSA are separate from class fee.  
Course exposes students to the skills and information necessary to layout, fabricate, assemble, install, maintain, and repair items and structures created from sheet metal components. Students learn the safe and efficient operation of various tools, and typically gain skill in blueprint reading; welding; and finishing and polishing metals.  
VHS:  Certifiable through the National Center for Construction and Research (NCCR).
Welding Course Descriptions:

0151  Agricultural Mechanics I
Grades:  9 – 12
Credit:  1
Class Fee:  $20.00 VHS, $40.00 LLHS
Note:  FFA dues are separate from class fee.
Course provides for the skill and knowledge development applicable to the tools and equipment used in the agricultural industry. In learning to apply basic industrial knowledge and skills (engines, power, welding, and carpentry), a broad range of topics may be explored, including the operation, mechanics, and care of tools and machines; the construction and repair of structures; introduction to electricity and power. Procedures for safe operations in the agricultural mechanics laboratory are included in this course.

2414  Welding I
Grades:  10 – 12
Prerequisite: Pass Agriculture Mechanics with “C” or higher and a teacher's signature is required
Lab Fee:  $20.00 VHS, $40.00 LLHS
Note:  FFA and Skills USA dues are separate from class fee.
Topics include oxyacetylene, Arc (SMAW) and Mig (GMAW) 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. Course safety will be strictly enforced.

2416  Welding II
Grades:  11-12
Prerequisite: Pass Welding I with “C” or higher and a teacher's signature is required
Lab Fee:  $20.00 VHS, $40.00 LLHS
Note:  FFA and Skills USA dues are separate from class fee.
In this course students gain knowledge and skills of particular aspects of welding that are required in the welding industry. Examples include individual courses in each of the following types of welding: gas metal arc welding, gas tungsten arc welding, and shielded metal arc welding. Industry standards for fabrication and testing will be taught as part of the course. Course safety will be strictly enforced. *(DC)
Woodworking

<table>
<thead>
<tr>
<th>Course #</th>
<th>LLHS</th>
<th>VHS</th>
<th>CHS</th>
<th>Title</th>
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<tr>
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<td>Woodworking II</td>
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</table>

Woodworking Course Descriptions:

0417  Woodworking I  
  Grades: 9 – 12  
  Credit: 1  
  Class Fee: Students pay for materials/supplies used on their project  
  This course is designed to give a student the opportunity to enhance woodworking skills. Each student will learn about basic shop safety; operate hand tools, power tools, and power machines. These skills will give the student the opportunity to construct a miniature grandfather clock or cabinet and earn a national license through NCCER. After constructing one of these projects, the student will design, figure a bill of material, plan a procedure, and construct an individually designed project.

0418  Woodworking II  
  Grades: 10 – 12  
  Credit: 1  
  Prerequisite: Woodworking I  
  Class Fee: Students pay for materials/supplies used on their project  
  This course is designed to prepare students for a career in the construction cabinetmaking field. The class is set up to look like a corporation which is formed into a labor intensive environment where students must work together to construct a set of cabinets. Students learn to read blue prints, design, estimate, order and select material. Additionally, the student will design, figure a bill of materials, plan a procedure, and construct an individually designed project.
Computer and Information Science

<table>
<thead>
<tr>
<th>Course #</th>
<th>Dual Credit</th>
<th>Title</th>
<th>Grade Level</th>
<th>Offered at:</th>
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<td>LLHS</td>
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<td>0316</td>
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<td>10-12</td>
</tr>
<tr>
<td>0323</td>
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<td>0276</td>
<td></td>
<td></td>
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<td>11-12</td>
</tr>
</tbody>
</table>

Computer and Information Science Course Descriptions:

0315  Computer Graphics I
Grades:  10 – 12
Credit:  1
Class Fee:  $10.00 per semester
Prerequisite:  Art I or Graphic Arts. Students must demonstrate basic computer competency
Course provide students with the opportunity to explore the capability of the computer to produce visual imagery and to apply graphic techniques to various fields, such as advertising, TV/video, and architecture. Modeling, simulation, animation, and image retouching are possible course topics. *(DC)*

0316  Computer Graphics II
Grades:  10 – 12
Credit:  1
Prerequisite:  Computer Graphics I
Class Fee:  $10.00 per semester
Course provide students with the opportunity to explore the capability of the computer to produce visual imagery and to apply graphic techniques to various fields, such as advertising, TV/video, and architecture. Modeling, simulation, animation, and image retouching are possible course topics. *(DC)*

0324  Introduction to Logic and Programming
Grades:  9 – 12
Credit:  1
Class Fee:  $10.00
The class is a dual-credit computational science course. ILP is a hybrid course, meaning that meaning that a significant part of the course content is on-line and the remaining part is taught in-person. This hybrid course uses a style of pedagogy called a “flipped course”. That is, most content (the lectures) are delivered during out-of-class times via videos and reading materials while in-class time is used for hands-on activities and project work. Students will learn modeling and simulation using NetLogo. Students are encouraged to participate in the Supercomputing Challenge. *(DC)*
0323  PLTW Computer Science I -- CS and Software Engineering (AP Computer Science Principles)
Grades:  10 – 12
Credit:  1
Class Fee: $10.00 per semester
Prerequisite: Intro to Logic and Programming
Computer Science I (Pre AP) is the second course in the computer programming track of the STEM SLC. It aligns with the AP Exam for Computer Science Principles. The course does not aim to teach mastery of a single programming language, but aims instead to develop computational thinking, to generate excitement about the field of computing, and to introduce computational tools that foster creativity. The course also aims to build students’ awareness of the tremendous demand for computer specialists and for professionals in all fields who have computational skills. Each unit focuses on one or more computationally intensive career paths. The course also aims to engage students to consider issues raised by the present and future societal impact of computing. *(DC) (AP)

0329  PLTW Computer Science II – Computer Science Applications (AP Computer Science A)
Grades:  11 – 12
Credit:  1
Prerequisite:  Computer Science I and Algebra I
Class Fee:  $10.00 per semester
Computer Science II (AP) is the third course in the computer programming track of the STEM SLC. CSA focuses on integrating technologies across multiple platforms and networks, including the Internet. Students collaborate to produce programs that integrate mobile devices and leverage those devices for distributed collection and data processing. Students analyze, adapt, and improve each other’s programs while working primarily in Java™ and other industry-standard tools. This course prepares students for the College Board’s Advanced Placement CS-A test and aligns with CSTA Level 3C Standards. *(AP)

0276  Web Design I
Grades:  10 – 12
Credit:  1
Class Fee:  $10.00 per semester
Prerequisite:  Computer Graphics I
Course emphasizes skill development that will enable students to author, edit, debug, evaluate and publish web pages on a server. The basics of planning and creating Web Pages, using text editors, and HTML editors, selecting and adding images, choosing background colors, creating active internal and external links, adding lists and testing pages created are also covered. *(DC)

0276  Web Design II
Grades:  11 – 12
Credit:  1
Prerequisite:  Web Design I
Class Fee:  $10.00 per semester
Course emphasizes skill development builds on the basic skills learned in Web Design I. Students will explore forms, Java Script, and basic PHSS. Students will also learn the industry standard Dreamweaver. Included in the course will be ongoing discussions on reliability, privacy issues, intellectual property and legal issues, and the social and ethical ramifications for the Web.
**Video Production**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Dual Credit</th>
<th>Title</th>
<th>Grade Level</th>
<th>Offered at:</th>
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<tbody>
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<td>VHS</td>
<td>CHS</td>
<td></td>
</tr>
<tr>
<td>1172</td>
<td></td>
<td>Video Production I, II, III</td>
<td>10-12</td>
<td>✓</td>
</tr>
</tbody>
</table>

Video Production Course Descriptions:

1172  Video Production I, II, III  
Grades: 10 – 12  
Credit: 1  
Prerequisite: Take courses in order  
These courses expose students to the materials, processes, and artistic techniques involved in digital video, film and/or videotape production. Students learn about the operation of a camera, lighting techniques, camera angles, depth of field, composition, storyboarding, sound capture, and editing techniques. Course topics also include production values and ethics and various production genre (documentary, storytelling, news, commercial, instructional, music video, etc.). As students advance, the instruction regarding the creative process becomes more refined and in relation to technical skills becomes more diverse and yet precise. In order to develop each student’s style and artistic eye, both established and developing cinematographers and their productions are studied. Although traditional lecture, demonstration and examination are inherent to the courses, the majority of a student’s grade is based on production achievements as he/she masters new concepts and implements them in video.

**Cosmetology**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Dual Credit</th>
<th>Title</th>
<th>Grade Level</th>
<th>Offered at:</th>
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</thead>
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<td>0699</td>
<td></td>
<td>Cosmetology II</td>
<td>10-12</td>
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</table>

Cosmetology Course Description

0605  Cosmetology I  
Grades: 9 – 12  
Credit: 1  
Class Fee: $15.00  
Non licensing – Cosmetology I is an introductory course for students who are interested in gaining experience and training in the field of cosmetology. Students gain the knowledge and skills applicable to the care of hair, skin and nails. Course topics include human anatomy, sanitation, chemistry and bacteriology. Students gain knowledge on first steps toward a career in cosmetology.
0699  Cosmetology II
Grades: 10 – 12
Credit: 1
Prerequisite: Cosmetology I
Class Fee: $20.00
Related Subjects - Courses in this category offer instruction in related topics that are necessary or helpful in cosmetology occupations; such topics may include mathematics, science and entrepreneurship.

Family and Consumer Sciences

<table>
<thead>
<tr>
<th>Course #</th>
<th>Dual Credit</th>
<th>Title</th>
<th>Grade Level</th>
<th>Offered at:</th>
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</thead>
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<tr>
<td></td>
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<td>VHS</td>
<td>CHS</td>
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<td>0509</td>
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<td></td>
<td>Baking I</td>
</tr>
<tr>
<td>0508</td>
<td></td>
<td></td>
<td></td>
<td>Culinary Arts I, II, III</td>
</tr>
<tr>
<td>0576</td>
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<td></td>
<td></td>
<td>GRADS I - Teen Pregnancy</td>
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<tr>
<td>0580</td>
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<td></td>
<td>GRADS II - Newborn</td>
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<tr>
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<td>GRADS III - Parenting</td>
</tr>
<tr>
<td>0583</td>
<td></td>
<td></td>
<td></td>
<td>GRADS IV - Independent Living</td>
</tr>
</tbody>
</table>

Family and Consumer Science Course Description

0509  Baking I
Grades: 11 – 12
Credit: 1
Prerequisite: Culinary Arts I
Class Fee: $10.00 per semester
Course provides basic knowledge needed to produce baked products. Instruction will include understanding ingredients, proper production methods and standard cost analysis of the product. Students are taught proper safety and sanitation requirements along with tools and equipment needed to complete tasks.

0508  Culinary Arts I, II, III
Grades: 10 – 12
Credit: 1
Prerequisite: Take courses in sequence
Class Fee: Culinary Arts II: $15.00 per semester
Culinary Arts III: $20.00 per semester
Course is designed for students interested in the food service industry. They provide instruction regarding nutrition, principles of healthy eating, and the preparation and service of food. The course may focus on a specific type of cuisine, domestic or international. Among the topics covered in Food Service courses is large-scale meal preparation, preserving nutrients throughout the food preparation process, use and care of commercial cooking equipment, food storage, advances in food technology, sanitation, management, and the careers available in the food service industry.

0576  GRADS I
Grades: 9 – 12
Credit: 1
Teen Pregnancy - A course designed for the expectant teen and or teen father. Topics may include: Surviving teen pregnancy, the importance of prenatal care, prenatal development, birth and delivery, healthy eating habits, substances and chemicals to avoid, FAS, goal-setting, decision-making, staying in school, communicating with father and his family, and community economic
independence, and resources for teen parent. MUST BE A GRADS RECOGNIZED SITE IN ORDER TO COUNT STUDENTS IN THIS COURSE.

0580  **GRADS II**  
Grades: 9 – 12  
Credit: 1  
Newborn - A course designed for the teen that is parenting a newborn baby under 1-year-old. Topics may include: Goal-setting, decision-making, time management, Child development from Birth to 1year, brain development, child support, selecting a daycare, bonding, nutrition, medical attention, economic independence, and three generational living. MUST BE A GRADS RECOGNIZED SITE IN ORDER TO COUNT STUDENTS IN THIS COURSE.

0581  **GRADS III**  
Grades: 9 – 12  
Credit: 1  
Parenting - A course designed for the teen parent with a child 1-3 years old. Topics may include: Child development for toddlers, potty training, discipline, brain development, career planning, job portfolios, family law, decision-making, goal-setting, second-hand smoke and health issues, child hood diseases, healthy relationships, family planning, and economic independence custody and father rights. MUST BE A GRADS RECOGNIZED SITE IN ORDER TO COUNT STUDENTS IN THIS COURSE.

0583  **GRADS IV**  
Grades: 9 – 12  
Credit: 1  
Independent Living - A course designed for the teen parent with preschool age children. Topics may include: Living on your own, budgeting, checking accounts, savings, taxes, job security and advancement, continuing education, balancing work and family, economic independence, reading and language development, parent-child interaction, Child development of pre-school children, and discipline, child abuse, and sexual transmitted diseases. MUST BE A GRADS RECOGNIZED SITE IN ORDER TO COUNT STUDENTS IN THIS COURSE.
## Fine and Performing Arts

<table>
<thead>
<tr>
<th>Course #</th>
<th>Dual Credit</th>
<th>Title</th>
<th>Grade Level</th>
<th>Offered at:</th>
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<tbody>
<tr>
<td>1161</td>
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<td>Art I – Comprehensive</td>
<td>9-12</td>
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<tr>
<td>1162</td>
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<td>Art II – Studio Art</td>
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<tr>
<td>1163</td>
<td></td>
<td>Art III - Advanced Mixed Media</td>
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<tr>
<td>1181</td>
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<td>Art IV - Developing Voice &amp; Style</td>
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<tr>
<td>1158</td>
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<td>AP Art Portfolio</td>
<td>11-12</td>
<td>✓</td>
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<tr>
<td>1164</td>
<td>✓ ✓</td>
<td>Photography I, II</td>
<td>10-12</td>
<td>✓</td>
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<tr>
<td>1164</td>
<td></td>
<td>Pottery I</td>
<td>9-12</td>
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<tr>
<td>1164</td>
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<td>Pottery II</td>
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<td>Pottery IV</td>
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### Fine and Performing Arts Course Descriptions:

1161  **Art I – Comprehensive**  
**Grades:** 9 – 12  
**Credit:** 1  
**Class Fee:** $25.00 per semester  
Course provides students with the knowledge and opportunity to explore an art form and to create individual works of art. Career opportunities in the art world may also be discussed and explored. Initial courses cover the language, materials, and processes of a particular art form and the design elements and principles supporting 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. Although the focus of creative art courses is creation, the study of major artists, art movements, and styles may also be included.

1162  **Art II – Studio Art**  
**Grades:** 10 – 12  
**Credit:** 1  
**Prerequisite:** Art I – Comprehensive “C” or better.  
**Class Fee:** $25.00 per semester  
Course covers the same topics as Creative Art- Comprehensive courses, but focus on drawing and painting and clay. In keeping with this attention on mostly two dimensional work, students typically work with several media (such as pen and ink, pencil, chalk, watercolor, and acrylics, and so on).

1163  **Art III – Advanced Mixed Media**  
**Grades:** 11 – 12  
**Credit:** 1  
**Prerequisite:** Art II – Studio Art “C” or better.  
**Class Fee:** $25.00 per semester  
Course covers the same topics as Creative Art-Comprehensive courses, but focus on creating two and three dimensional works. Students typically work with several media.
Art IV – Portfolio
Grades: 11 – 12
Credit: 1
Prerequisite: Art III - Advanced Mixed Media “C” or better.
Class Fee: $30.00/semester lab fee
Intended for students who are advanced in art; Art Portfolio courses offer the opportunity to create a professional body of work that reflects personal style and talent. Students are encouraged to display their work publicly.

AP Art Portfolio
Grades: 11-12
Credit: 1
Prerequisite: Teacher recommendation
Class Fee: $30.00 per semester
AP Art is a rigorous, year-long, college-level art program designed to meet the needs of those students seriously interested in the study of art. The areas covered in this course are 2D design as well as drawing. AP credit is awarded after the school year based on submission of a large portfolio which covers the areas of quality, concentration, and breadth.

Photography I, II
Grades: 10 – 12
Credit: 1
Class Fee: $20.00 per semester
Notes: Students MUST have their own digital camera in order to participate in class.
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 photo correction and manipulation. 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 are also studied. *(DC)

Pottery I
Grades: 9-12
Credit: 1
Class fee: $20.00 per semester
The course introduces hand-building in clay. Students learn about studio safety and cleaning routines, clay fundamentals and tool handling techniques, and clay vocabulary. Students will learn to form clay by pinching, and coiling, plus they’ll use slab forms. Projects will be functional or decorative. Some class time will be devoted to Art History; such as, Southwestern traditional techniques with clay. Finally, students will learn about carving, impressing, texture, displaying their work, glazing and staining, and firing.

Pottery II
Grades: 10-12
Credit: 1
Prerequisite: Pottery I
Class fee: $20.00 per semester
The successful completion of Pottery I is required. The course includes wheel throwing and hand-building. Students will be expected to safely and knowledgably operate all equipment in the studio. Students will create projects that combine hand building forms in sculptural and functional expressions. Students will be expected to exhibit in shows. Students will work in teams on projects which will be temporary or permanent works of art on campus. Some class time will be devoted to Art History; such as, Southwestern traditional techniques with clay.
1164 Pottery III
Grades: 11-12
Credit: 1
Prerequisite: Pottery I, II and with “C” or better.
Class fee: $20.00 per semester
The successful completion of Pottery I is required. The course includes wheel throwing and hand-building. Students will be expected to safely and knowledgeably operate all equipment in the studio. Students will create projects that combine hand building forms in sculptural and functional expressions. Students will be expected to exhibit in shows. Students will work in teams on projects which will be temporary or permanent works of art on campus. Some class time will be devoted to Art History; such as, Southwestern traditional techniques with clay.

1164 Pottery IV
Grades: 12
Credit: 1
Prerequisite: Pottery I, II and with “C” or better.
Class fee: $20.00 per semester
The successful completion of Pottery I, II, and III is required. The course includes wheel throwing and advanced hand-building. Projects will build on Pottery I, II, and III knowledge to include complex forms, elements and principles of design, surface decoration. Art criticism and Ceramic History will also be included. Students will be expected to safely and knowledgeably operate all equipment in the studio. Students will be expected to exhibit in shows. Students will engage in studio responsibilities including exemplary cleanliness and personal responsibility and teamwork. Students will participate in display setup, kiln loading and unloading.

Band

<table>
<thead>
<tr>
<th>Course #</th>
<th>Dual Credit</th>
<th>Title</th>
<th>Grade</th>
<th>Offered at:</th>
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</thead>
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<td>VHS</td>
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<td>Level</td>
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<tr>
<td>1122</td>
<td>Concert Band I, II, III, IV</td>
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<tr>
<td>1123</td>
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<td>Symphonic Band I, II, III, IV</td>
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<td>✓</td>
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<td>1125</td>
<td>Jazz Band I, II, III, IV</td>
<td>9-12</td>
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</tbody>
</table>

Band Course Descriptions:

1122 Concert Band I, II, III, IV
Grades: 9 – 12
Credit: 1
Concert Band is a comprehensive study of music through performance on band instruments. Emphasis will be on three types of performance: large ensemble, small ensemble, and solo. Bands will perform at school functions, concerts, community events, district and state events and out of state events.

1123 Marching Band I, II, III, IV
Grades: 9 – 12
Credit: .5
Course is intended to develop technique for playing brass, woodwind, and percussion instruments, and cover appropriate band literature styles, primarily for marching performances. VHS: Marching Band is offered in the fall. Rehearsals are after school. Prerequisites: All wind and percussion players must also be enrolled in concert band.
1122  Symphonic Band I, II, III, IV  
**Grades:** 9 – 12  
**Credit:** 1  
**Prerequisite:** Audition and take courses in sequence  
This course is designed for any student who meets and/or exceeds in the requirements for Concert Band. Selection to this group is by audition and instructor recommendation. This group will combine with the Concert Band during marching season. This is performing group course that requires participation in concerts, assembly programs, parades, music clinics, festivals, and school/community activities. Participation in ALL performances and ALL regularly scheduled rehearsals and sectional is required.

1125  Jazz Band I, II, III, IV  
**Grades:** 9 – 12  
**Credit:** .5  
**Prerequisite:** Instructor recommendation and take courses in sequence  
Course develops technique for playing brass, woodwind, percussion, and string instruments, as well as guitar and keyboard, focusing primarily on contemporary stage band literature styles, such as traditional jazz, jazz improvisation, and rock.

### Drama

<table>
<thead>
<tr>
<th>Course #</th>
<th>Dual Credit</th>
<th>Title</th>
<th>Grade Level</th>
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<td>Drama I, II, III, IV</td>
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<td>1112</td>
<td></td>
<td>Drama/Technical Theatre</td>
<td>10-12</td>
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<tr>
<td>1117</td>
<td>☑</td>
<td>Theater Arts I, II</td>
<td>11-12</td>
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</tbody>
</table>

**Drama Course Description**

1111  Drama I, II, III, IV  
**Grades:** 9 – 12  
**Credit:** 1  
**Prerequisite:** Take courses in sequence  
Course is intended to promote students' experience and skill development in one or more aspects of theatrical production, but concentrate on acting and performance skills. 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.

1112  Drama/Technical Theatre  
**Grades:** 10 – 12  
**Credit:** 1  
**Prerequisite:** Drama I, Band I, Video Production, or a senior lacking prerequisites  
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.
1117  Theatre Arts I, II  
Grades:  11 – 12  
Credit:  1  
Prerequisite:  Drama I, II, III, IV & Theatre Arts I, II  
Prerequisite:  Take courses in sequence  
Course explores in depth the structure, elements, and style of dramatic compositions, and, as an extension, how the dramatic literature influenced theatrical production and acting styles throughout history. Some courses may focus more on the literature than on the theater (with increased emphasis on critique and analysis), but most interweave these subjects, exploring their interrelationship. Major contributors (playwrights, directors, and so on) and the architecture of the theater may also be included topics of study. *(Theatre Arts I, II – DC)

Health Care

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<td>LLHS</td>
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<td>1595</td>
<td>✔</td>
<td>✔</td>
<td>Health Careers</td>
<td>9-12</td>
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</table>

1504  Certified Nursing Assistant Program (Spring)  
Grade:  12  
Credit:  1  
Prerequisite – Students must pass ACCUPLACER at the level that dictates college readiness.  
Course covering the same scope of topics as Health Care Occupations courses, the Nursing course places a special emphasis on the particular competencies required of nurses and/or nursing assistants and aides. Topics may include normal growth and development; bathing, feeding, dressing, and transporting patients; basic pharmacology; doctor, nurse, patient relationships and roles; medical and professional ethics; death and dying; and care of various kinds of patients (chronically ill, medical-surgical, children, new mothers, and so on). Upon completion of the course, students are eligible to take the NM Nursing Assistant Certification Exam. *(DC)

1506  Personal Care Attendant (Fall)  
Grade: 12  
Credit:  1  
Prerequisite – Students must pass ACCUPLACER at the level that dictates college readiness.  
Students will gain the skills needed to provide "hands on" patient care under the direct supervision of a nurse. It is also an opportunity to be part of a nursing team and experience the opportunities available in the healthcare field. Students will explore a variety of basic nursing skills applicable for patients in need of acute or chronic long-term care in home health, hospice, assisted living, or mental health facilities. Upon successful completion of the course, students are eligible to take a Certification Exam through New Mexico Direct Caregivers Coalition. (DC)

1595  Health Careers  
Grade:  9 – 12  
Course in this category offers instruction in related topics that are necessary or helpful in health care occupations; such topics may include mathematics, science, and/or communications. *(DC)
### Journalism and Yearbook

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**Journalism and Yearbook Course Description**

**1903  Yearbook I, II, III**

**Grades:** 10 – 12  
**Credit:** 1  
**Prerequisite:** Take courses in sequence. Instructor approval  
Course is responsible for creating, designing, marketing, producing and selling the school yearbook. Techniques in modular layout design, interviewing, writing copy and headlines, editing, advertising sales and design marketing, and business procedures are stressed. All students will be expected to complete assignments on the computer. Meeting regular deadlines and peer cooperation are emphasized in producing the yearbook.

### Modern Languages

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</table>

**Modern Languages Course Descriptions:**

**1252  Spanish I**

**Grades:** 9 – 12  
**Credit:** 1  
Course introduces students to the basic skills - listening, speaking, reading, and writing - and to the basic structures of Spanish taught within the cultural context. Emphasis will be placed on oral and written communication skills. Students are made aware of the importance of Spanish in their world. *(DC)*

**1253  Spanish II**

**Grades:** 10 – 12  
**Credit:** 1  
**Prerequisite:** Spanish I - Required “C” or better  
Course continues to develop communicative skills. 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. An appreciation of the culture of Spanish speaking countries is enhanced. *(DC)

1254 Spanish III
Grades:  11 – 12
Credit:  1
Prerequisite:  Spanish II - Required “B” or better
Course further refines, reinforces, and develops the skills and cultural awareness previously acquired in the first two levels. A greater emphasis is placed on reading and on communicating orally and in writing. The importance of Spanish in career fields continues to be emphasized. *(DC)

102  AP Spanish IV
Grades:  11 – 12
Credit:  1
Prerequisite:  Spanish III- Required “B” or better
Course is designed to parallel third year college level courses in this category build upon prior knowledge and develop students' ability to understand others and express themselves (in Spanish) accurately, coherently, and fluently in both formal and informal situations. Upon completing these courses, students will develop a large enough vocabulary to understand literary texts, magazine/newspaper articles, films and television productions, and so on. This course is intended to prepare students for the optional Advanced Placement Exam in this subject and should follow the published College Board guidelines. *(DC)

1271 Spanish for Native Speakers I
Grades:  9 – 12
Credit:  1
Prerequisite:  Recommendation
Course supports, reinforces, and expands students' knowledge of home language. Because students have already been exposed to their home/heritage language, they understand at least the rudiments and structure of the language, and have a working vocabulary (to a greater or lesser degree). Courses in Language for Native Speakers often move faster than do Foreign Language courses, and may be structured similar to an English Language Arts course (Reading, Writing, Listening and Speaking, with the study of literature and composition). This course must incorporate the study of the culture, history, and traditions of the community. This course must be taught in the target language.

1272 Spanish for Native Speakers II
Grades:  10 – 12
Credit:  1
Prerequisite:  Spanish for Native Speakers I & Recommendation
Course further reinforces and expands students' knowledge of their home/heritage language. This course emphasizes deeper development of skills (Reading, Writing, Listening and Speaking) with a study of short stories, novels, plays, poetry.

1232 Native American Studies I (TIWA)
Grades:  9 – 12
Credit:  1
Course introduces students to the basic grammatical skill of oral language communication to Native American language. All language skills are included: listening, speaking, reading, and writing. Listening and speaking are emphasized at this level. *(DC)

1233 Native American Studies II (TIWA)
Grades:  10 – 12
Credit:  1
Prerequisite: Native American Studies I (TIWA)
The practical conversational approach to the Native American language is continued. At this level listening, speaking, and reading are emphasized. At the end of the second year, the student should be able to communicate with more grammatical skills. *(DC)
## Pre-Engineering/Project Lead the Way (PLTW) Courses

<table>
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<td>1621</td>
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<td>11-12</td>
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<td>Engineering Design and Development (EDD)</td>
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</table>

### Pre-Engineering/Project Lead the Way Course Descriptions:

#### 1615 Introduction to Engineering Design (IED)
- **Grades:** 9 – 12
- **Credit:** 1
- **Co or Prerequisite:** Algebra I
- **Lab Fee:** LLHS $25.00  VHS $15.00

IED students are introduced to the engineering profession and a common approach to the solution of engineering problems, an engineering design process. Utilizing the activity-project-problem-based (APB) teaching and learning pedagogy, students will progress from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Students are introduced to the engineering design process, applying math, science, and engineering standards to identify and design solutions to a variety of real problems. They work both individually and in collaborative teams to develop and document design solutions using engineering notebooks and 3D modeling software.

#### 1617 Principles of Engineering (POE)
- **Grades:** 10 – 12
- **Credit:** 1
- **Co- or Prerequisite:** IED & Geometry
- **Lab Fee:** LLHS $25.00  VHS $15.00

POE is a foundation course of the high school engineering pathway. This survey course exposes students to some of the major concepts that they will encounter in a postsecondary engineering course of study. Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of materials and structures, automation, and kinematics. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology. Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of materials and structures, automation, and motion. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

#### 1616 Digital Electronics (DE)
- **Grades:** 10 – 12
- **Credit:** 1
- **Prerequisite:** IED or Teacher Approval & Algebra II
- **Lab Fee:** LLHS $25.00  VHS $15.00

Digital electronics is the study of electronic circuits that are used to process and control digital signals. In contrast to analog electronics, where information is represented by a continuously varying voltage, digital signals are represented by two discrete voltages or logic levels. This
distinction allows for greater signal speed and storage capabilities and has revolutionized the world of electronics. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, high definition televisions, etc. Students learn the digital circuit design process to create circuits and present solutions that can improve people’s lives.

1619 Civil Engineering and Architecture (CEA)
Grades: 11 – 12
Credit: 1
Prerequisite: IED, POE or DE, or Teacher Approval & Algebra II
Lab Fee: LLHS $25.00  VHS $15.00
Civil Engineering and Architecture (CEA) is a high school level specialization course in the PLTW Engineering Program. In CEA students are introduced to important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architectural design software. Utilizing the activity-project-problem-based (APB) teaching and learning pedagogy, students will progress from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Students learn the fundamentals of building design, site design, and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architectural design software.

1621 Aerospace Engineering (AE)
Grades: 11 – 12
Credit: 1
Prerequisite: IED, POE or DE, & Algebra II
Lab Fee: $25.00
Aerospace Engineering ignites students’ learning in the fundamentals of atmospheric and space flight. Aerospace Engineering is one of the specialization courses in the PLTW Engineering program. The course deepens the skills and knowledge of an engineering student within the context of atmospheric and space flight. Students explore the fundamentals of flight in air and space as they bring the concepts to life by designing and testing components related to flight such as an airfoil, propulsion system, and a rocket. They learn orbital mechanics concepts and apply these by creating models using industry-standard software. They also apply aerospace concepts to alternative applications such as a wind turbine and parachute. Students simulate a progression of operations to explore a planet, including creating a map of the terrain with a model satellite and using the map to execute a mission using an autonomous robot. Students explore fundamentals of flight in air and space through software simulations and hands-on experiences. Students learn how these concepts apply to a career in aerospace engineering and to other engineering fields.

1620 Engineering Design and Development (EDD)
Grade: 12
Credit: 1
Prerequisite: Completed IED, POE or DE, AE or CEA
Lab Fee: $25.00
Engineering Design and Development is a high school level course that is appropriate for 12th grade students. Since the projects on which students work can vary with student interest and the curriculum focuses on problem solving, EDD is appropriate for students who are interested in any technical career path. EDD is taken as the final capstone PLTW course since it requires application of the knowledge and skills introduced during the PLTW foundation courses. The knowledge and skills students acquire throughout PLTW Engineering come together in EDD as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, ready to take on any post-secondary program or career.
Other Elective Courses

<table>
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<th>Course #</th>
<th>Dual Credit</th>
<th>Title</th>
<th>Grade</th>
<th>Level</th>
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</table>

Other Elective Course Descriptions:

**0822 Office Aide**  
Grade: 11-12 LLHS  
Grade: 12 VHS  
Credit: 1  
Prerequisite: Counselor/Instructor recommendation. Seniors must have a minimum 3.0 cumulative GPA.  
Course provides students with the opportunity to work in campus offices, developing skills related to clerical office work. Duties may include, among others, typing, filing, record keeping, receiving visitors, answering the telephone, and duplicating. Emphasis is placed on appropriate work attitude, human relations, and proper office procedures.

**0823 Teacher Aide**  
Grade: 12  
Credit: 1  
Prerequisite: Counselor/Instructor recommendation. Seniors must have a minimum 3.0 cumulative GPA.  
Course provides students with the opportunity to assist teachers with classroom duties.

**0833 Advisory**  
Grades: 9-12  
Credit: 1  
CHS: .5 credit  
Course provides students with the opportunity and time to complete classroom assignments or school projects. Students may work on their own, in their assigned room or they may transition to other classes within their schedule for intervention with prior teacher approval and pass. The seminar portion of the class consists of a grade-appropriate teacher-led lesson. Topics may include: tools, techniques, and resources to enhance academic performance and persistence; transition to college and/or concurrent/dual credit enrolment; time and stress management; college expectations and procedures; learning and teaching styles; study skills and career

**0852 Internship**  
Grade: 12  
Credit: 1  
Course provides students with the opportunity to work alongside a community leader, administrator, or other type of professional, learning the concepts of management and professional activities. These courses have an in school component as well (such as a seminar class) to discuss the employment experience, aspects of the business world, and problems encountered.
## Elective Courses in Alphabetical Order

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<th>Course Name</th>
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Updated 1/5/16