LOS LUNAS SCHOOLS

Every Student Matters, Every Moment Counts

High School Course Descriptions 2026-2027

Every Student Matters. Every Moment Counts.

Mission Statement Preparing, empowering, and inspiring all students to reach their maximum potential.

LOS LUNAS SCHOOLS

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General Information

Century High School

Phone: (505) 866-2153

Fax: (505) 866-8064

Mission: At The Opportunity School, we provide quality education for all students to be successful. ALL means ALL!

Vision: The Opportunity School will always be the school of opportunity for all students to become responsible, productive, and respectful individuals. We will succeed in this by providing high quality instruction through individualized career and college pathways toward graduation.

Michaela Coffin-Smith - Principal

Jennifer Edeal-LaLonde - Dean of Students

Eve Romero - Counselor K-12

Los Lunas High School

Phone: (505) 865-4646

Fax: (505) 565-2847

Mission: Los Lunas High School exists to inspire, empower, and educate ALL students to high levels of learning

Vision: Leadership, Learning, Higher Standards.

Dr. Nimrah Marquez – Principal

Paul Cieremans - Assistant Principal

Dr. Marsha Hubbell-Espinosa – Assistant Principal

Jarod Storey – Assistant Principal

Amy Otero – Counselor, Class of 2029

Krystal Salazar – Counselor, Class of 2028

Jeremy Roberson - Counselor, Class of 2027

Nicolena Ceccacci - Counselor, Class of 2029

William Hays – LLS Athletic Director

Stephanie Lucero – LLHS Athletic Secretary

Josuha Mattox - Athletics and Activities Manager

Annette Gion- Inclusion Support Coach

Jonelle Thompson-Armijo – Inclusion Support Coach

Valencia High School

Phone: (505) 565-8755

FAX: (505) 565-8762

Mission: Educating, Equipping, and Empowering All Students in an Environment of High Expectations and Mutual Respect

Vision: Valencia High School will excel as a Professional Learning Community that fosters academic and personal growth for every student to create a positive change in the world.

Jennifer Otero - Principal, Class of 2026

Paul Carder – Assistant Principal, Class of 2027 and 2029

Salena Aragon – Assistant Principal, Class of 2028

David Olguin – Junior Class of 2027 & Seniors A-M

Rhonda Flores – Sophomore Class of 2027 and Seniors L-Z

Jennifer Markel - Freshmen

William Hays– LLS Athletic Director

Juanita Sanchez – VHS Athletic Secretary

Brett Schram - VHS Athletic and Activities Manager

Christa Neal, Gretta Aguilar – Inclusion Support Coach

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.

ACADEMICS

Academic Letter - Starting in Fall 2026, students who earn a 3.5 GPA or higher in 9th grade semester 1 will receive a Certificate of Academic Excellence in January or February. Academic Letters begin with 9th grade semester 2, with eligibility based on earning a 3.5 GPA or higher in 9th grade semester 2 and 10th grade semester 1; students who meet this requirement will receive their 1st Academic Letter in January or February of their 10th-grade year. After that, the 2nd Academic Letter is awarded for maintaining a 3.5 GPA or higher in 10th grade semester 2 and 11th grade semester 1, and the 3rd Academic Letter is awarded for achieving a 3.5 GPA or higher in 11th grade semester 2 and 12th grade semester 1. Finally, students who earn a 3.5 GPA or higher in 12th grade semester 2 will be awarded their 4th Academic Letter in May of their senior year. Students do not need to have earned the prior year's Academic Letter to be eligible for the next one.

9th S1	3.5 or Higher	Certificate of Academic Excellence in January or February
9th S2 10th S1	3.5 or Higher for S2 and S1	1st Academic Letter awarded in January or February
10th S2 11th S1	3.5 or Higher for S2 and S1	2nd Academic Letter awarded in January or February
11th S2 12th S1	3.5 or Higher for S2 and S1	3rd Academic Letter awarded in January or February
12th S2	3.5 or Higher for S2	4th Academic Letter awarded in May

Algebra I Completion in Middle School

Middle school students who complete high school Algebra I will be eligible for high school credit. The class will be graded as if students taking the class were a high school student and the class will transfer onto the

student's high school transcript in one of two ways.

1. All students will be offered the opportunity to take the district-approved Algebra I placement test at the end of the second semester. If students pass the test with an 80% or better, the letter grade earned for the class will be transcribed as a high school math credit. This grade will be factored into their high school GPA. The grade will appear on their high school transcript and will count as 1 of the 4 high school math requirements.

2. If a student does not meet the cut off score of 80%, they will receive high school credit in the form of CR. This will count towards a high school elective course and will NOT affect their high school GPA. Students will have to complete 4 additional math classes once they are enrolled in high school in order to meet the state requirement of 4 high school math classes.

* Students who receive a 70% or better on the placement test may take Geometry their 9th grade year.

	Incomplete/Failing Class Grade	**Passing Class Grade & Below 70% on Placement Test**	**Passing Class Grade & 70% -79% Placement Test**	**Passing Class Grade & 80% or better Placement Test**
Transcript	Nothing will appear on the student's high school transcript	**CR** counting as an elective high school course and **NOT** factored into high school GPA	CR counting as an elective high school course and NOT factored into high school GPA	Letter grade will appear on the student's transcript as a high school math course and will factor into highs GPA
9th grade class	Alg. I	Alg. I	Geometry	Geometry
State math requirements	4 math classes needed in high school	4 math classes needed in high school	4 math classes needed in high school	3 math classes needed in high school

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 high school students with the opportunity to take college-level courses in a high school setting. Students who participate in the program will gain college-level skills. 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 workload of the rigorous curriculum and acknowledge that schedules will not be changed without administrator approval. Students will have the opportunity to take AP exams. These exams are self-pay. Information regarding payment will be communicated from the school site. AP grades are the only weighted grades on a student's transcript. **There will be an AP meeting for students and parents in the spring to go over course information.**

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.

We believe ALL students benefit from AP and Pre-AP and encourage ALL students to enroll in these courses. 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 great 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.

Bilingual Seal

A Bilingual Seal will be awarded to students in accordance with the guidelines set by State Statute and District Policy. In order to receive the Bilingual Seal a student must earn their high school diploma.

College Information

Why take college courses in high school?

Students who take college courses in high school gain exposure to the experience of college while still in high school. Students can get ahead and they can start determining what they want out of college. Another good reason to take college courses in high school is that students can earn college credits without spending any money or using any financial aid. Lastly, students may feel high school courses are not sufficiently challenging; the New Mexico Dual Credit Program can allow you to try more difficult coursework.

Concurrent Enrollment

Prior to signing up for a college concurrent enrollment class, students must meet with their high school counselor to obtain prior approval in order for the course to be transcribed. Some core courses at the college level may be transcribed as an elective course at the high school level. Students who meet the college criteria 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 the course** is completed.

College Remedial courses will not count for high school credit and will not be transcribed on the high school transcript for any credit.

Physical Education Courses are not eligible for Dual Credit.

Dual Credit

Prior to signing up for a dual credit class, students must meet with their high school counselor to obtain prior approval in order for the course to be transcribed. 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 credits completed. Some courses require placement exams. All dual credit courses must be transcribed on high school transcript. Dual Credit courses do not receive weighted credit.

Online courses are available through the colleges. If a student wishes to drop a dual credit course, they must follow the college's procedures and deadlines for dropping a college course. Students will still need to make up the high school credit. If deadlines are not met the course will remain on the college transcript.

Memorandum of Agreement (MOAs):
Cooperating Post-Secondary Institutions
UNMVC
UNM-Main
CNM
Eastern
Navajo Technical University Dine'

Student eligibility for dual credit:

1. The student must be enrolled at their high school for one half or more of the requirements made by PED.
2. Students must obtain permission from their high school and the student's parent or guardian if the student is under 18 years old.
3. The students must meet the post-secondary institution requirements.

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 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.

Extra Credit
Extra credit, if offered, will be based on standards taught in class. Prior approval by site administration must be obtained and extra credit may not be anything that costs a student money.

Final Exams
State Statute requires that all students take a semester exam in order to receive credit. NMAC22-13-1.1.L

Grading Policy
The grading policy consists of letter grades and may include commentary from teachers about skills, work habits, and knowledge.

A+	97-100%	B+	87-89%	C+	77-79%	D+	67-69%	F	59% and Below
A	93-96%	B	83-86%	C	73-76%	D	63-66%		
A-	90-92%	B-	80-82%	C-	70-72%	D-	60-62%		

GPA Requirements	AP Weighted Grade GPA
A=4.0	A=5.0
B=3.0	B=4.0
C=2.0	C=3.0
D=1.0	
F=0.0	

Home School

Homeschooled students who come from an accredited program will receive credit only with a passing grade. Students must provide official transcripts from the accredited program in order to receive credit. Administration will make final determination for transferable credits. Placement test can be taken for placement in core classes.

Homeschooled students may participate in school sanctioned sports and activities at the school of their geographical boundary. Homeschooled students may take up to two elective courses in their geographical boundary school with principal approval and as long as space is available within those courses.

Individual Education 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.

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*) *(Courses: Health, Health Career Occupations, Child and Human Development, AP Psychology)*

Student Athletes

NMAA **https://web3.ncaa.org/ecwr3/**.

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).**

SALUTATORIAN
The second highest academic honor will be awarded to the graduating senior(s) who meet(s) ALL of the requirements above.

ENROLLMENT & REGISTRATION

Foreign Exchange Students
Foreign exchange programs will be expected to comply with the Department of State regulations for exchange visitor programs 22 CFR 62. The local area representative of foreign exchange programs, host families, and exchange students must agree to register with and provide necessary data to the District, abide by all School and District rules, regulations and procedures and have a full listing with the Council on Standards for International Education Travel (CSIET).

Each Los Lunas Schools high school will enroll up to but not to exceed 5 foreign exchange students a year. Agency requests for foreign exchange student enrollment, as documented by the host family application/profile, for the upcoming school year will be received on a first-come, first-serve basis. Notification will be made within ten working days to the agency representative regarding verification of space. Agency requests will be sent directly to the high school within the host family's boundaries as per Los Lunas Schools. A waiting list will be maintained prior to the first day of school. Foreign exchange students will not be placed after the first day of the school year, except in extenuating circumstances as determined by the high school principal. The high school principal shall have the final authority regarding acceptance and placement of an individual foreign exchange student and/or host family. The high school registrar will maintain and keep up to date the District Foreign Exchange Roster. Registrar will notify the LL Secretary when changes and updates have been made to this document.

Upon proper verification, foreign exchange students will 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. 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; they are primarily here for a cultural exchange and most students do not satisfy our District and State requirements. Exchange students completing a full year of course work at Los Lunas Schools will receive a transcript of work completed.

Mid-Year Enrollment Student Information
Students who enroll 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. If 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. All new students will follow the "new student registration" requirements for registration.

New Student Registration
Students must be accompanied by a parent/legal guardian. Students will need an original birth certificate, immunization records, proof of residency which includes two of the following: utility bill, rent receipt and or purchase agreement. A PO Box address will not be accepted. An unofficial copy of transcript should be

provided for course placement. The registrar will send for the official copy.

New Students With IEP

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.

Scheduling Procedures

Parents are required to participate in the scheduling process. Teachers, advisors and counselors 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. After receiving their schedules, students may request changes following the Schedule Change Policy.

Courses are offered by student thresholds and staffing availability. Online courses may be offered as an alternative, if a class does not have the number of students or staffing availability. We are responsible and do ensure that students will have access to required courses for graduation.

Early and late arrival may be an option for seniors. Student's schedules must be continuous with no free periods during the school day.

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. All students are expected to successfully complete the courses they select.

Acceptable reasons for schedule changes are as follows:

1. Schedule review
2. Completion of summer school course work
3. Failed courses from previous semesters
4. Changing to a course of a high degree of difficulty in the same subject area
5. Fulfill a graduation requirement
6. Students who lack a prerequisite for a class
7. Balancing class loads and other administratively determined change

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/legal guardian.

2. The completed form and the requested schedule change must be made before the end of the second week of the semester.

WITHDRAWAL FROM COURSES

Students taking courses will have a "no fault" withdrawal when:

1. This process has started within the first 10 (ten) school days.
2. A student/parent/teacher/counselor conference is held within the 2nd to 3rd week of the school.
3. A minimum of two weeks is allowed for implementation of the support plan.
4. A student/parent/teacher/counselor conference is held at the end of the support plan for student success timeframe. The goal of the conference is to determine if the plan has been successful and what further actions need to be taken. In addition, schedule change implications are discussed (changes in

instructors, changes in class periods, appropriate course level changes, options for a substitute class, open periods and class load limits).

If the student is not successful after implementation of a support plan, the student *or* teacher may make a request to administration, no later than the end of the first six weeks, for withdrawal (without penalty) from the course.

• The transfer process occurs no later than the first seven (7) weeks of the semester, but no sooner than the 4th week of the semester.
• The student will be transferred to the level of the course that is appropriate for his/her academic skill level* or courses that fulfill a graduation requirement (e.g.; Algebra I will replace Honors Algebra I, English 9 will replace Pre-AP English 9, Chemistry I will replace AP Chemistry).
• When examining transfer options, class load maximums cannot be violated.
• The grade that the student earned in the course at the time of withdrawal will transfer to the new course. The transfer grade will not be weighted if the grade was from an AP or honors course.

Students who withdraw from a course after the first 10 days of each semester, and do not enroll in a comparable* course (same content) will be withdrawn from their transcript. * When a course does not exist in the same content area (e.g. There is not an Environmental Science course to replace an AP Environmental course or the student requests withdrawal from AP Chemistry and has already taken Chemistry I), the student will either remain in the class with a revised support plan or be withdrawn from the class with a "W".

Records Office

A cumulative record is kept and maintained by the registrar. This record consists of the student's transcript, immunization record (filed in the 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.

Transfers from within the District

Students should go to their residential boundary school. Transfer requests will be reviewed in accordance with criteria outlined in State Statute and District Policy, pending availability.

Parent Involvement

Parent Teacher Conference

Parent conferences will be scheduled by the professional staff as often as is necessary to achieve maximum understanding between the home and the school. Such conferences will be held periodically to discuss student progress.
Conferences will be scheduled by school personnel in order to resolve a student problem or to avoid a potential problem.

Records will be made of such conferences if significant action is taken or if serious disagreement exists between the parent and school personnel.

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.

Los Lunas Schools Graduation Requirements

The graduation requirements listed below meet the requirements prescribed by the Public Education Department. Successful completion, a passing grade, of the following course work in each of the following courses for graduating students from Los Lunas Schools

Students are advanced to the next grade level each school year and will be officially classified according to their cohort year. However, students who have not earned the minimum number of credits, outlined in the table below, will be considered *behind in credits* for their grade level. These students will be required to recover the missing credits in order to remain on track for graduation.

Credits Required for Graduation = 24

At the beginning of the School Year Students Should have at Least	
Freshman	0
Sophomore	6
Junior	12
Senior	18

Los Lunas Schools Graduation Requirements	
Current High School Students Graduating Year: 2025, 2026, 2027, 2028	**Class of 2029 and Beyond (Freshman beginning year 2025)**
4 units English	4 units English
4 units Math - one unit equal to or greater than Algebra II	4 units Math - Must include Alg. I and Geometry
3 units Science - Must include 2 lab sciences	3 units Science - Must include 2 lab sciences
3.5 units Social Studies ● .5 New Mexico History	4 units Social Studies ● 2 Personal Finance and World History

Los Lunas Schools Graduation Requirements	
● 1 World History ● 1 US History ● .5 Econ/.5 Government	(Sophomore year) ● 1 U.S. History (Junior year) ● .5 Econ/.5 Government
.5 unit Health	.5 unit Health
1 unit Physical Education*	1 unit Physical Education**
8 units Electives including: 1 unit career cluster, workplace readiness, or language other than English)	5.5 units Electives including: 2 unit career cluster, workplace readiness, or language other than English
One of the above courses must be Pre-AP, AP, Dual Credit, or Distance Learning	2 units of an elective as designated by the Local Educational Agency
Total Credits: 24	Total Credits: 24

*7.24 MARCHING BAND, JROTC, AND NMAA – SANCTIONED INTERSCHOLASTIC SPORTS (SUBSTITUTE CREDIT)
Commencing with the 2021-22 school year, the Los Lunas Board of Education, approves participation in activities and programs related to high school marching band activities related to high school marching band, Junior Reserve Officers' Training Corps (JROTC), or interscholastic sports sanctioned by the New Mexico Activities Association during the school day, as part of the School District curriculum and that credit shall be awarded for satisfactory achievement in such program counted toward fulfillment of the required physical education unit for graduation from high school in the Los Lunas School District.

** Physical Education Credit Cohort 2029 and Beyond: 1.0 (or 0.5 per semester) | Grade Level: 9–12 | Prerequisite: None
Pursuant to the modernized graduation mandates of House Bill 171, students may satisfy the state's 1.0 unit physical education requirement through approved alternative physical and co-curricular programs. Eligible programs include NMAA-sanctioned sports, JROTC, high school marching band, and other school-sanctioned physical activities. Students pursuing these alternative pathways must complete the required documentation as required by district procedures.. Note: In strict compliance with NMPED graduation rules, alternative PE activities are subject to single-allocation constraints. A student may not "double-count" an alternative activity to fulfill both the required PE credit and an elective credit simultaneously.

Credit Recovery Courses

Credit recovery is offered to students who have failed a core course such as; Math, English, Social Studies and Science. Counselors will determine student needs and register the student in the appropriate course.

Recovery courses are taught through a computer-based program or mastery based learning. Credit is granted when a student completes 100% of the course within an overall 60% or higher. A 70% is required for the Pre-Testing threshold for mastery. Credit recovery courses must be completed within one semester. Credit recovery course will be transcribed with (R) on the student's transcript.

Digital Learning Course for Original Credit

Los Lunas Schools offers distance learning courses through an Online Learning Program. 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. Digital learning courses will be offered when an instructor is not available, for credit advancement or student choice. Many classes offered online are classes that we would not otherwise be able to offer. Students in Online Learning Programs must complete 100% of the course within one semester and earn a 60% overall or better. There is no Pre-testing for original credit.

Next Step Plans

Next Step Plan requirements will be held in accordance with NMSA §22-13-1.1 as it is in its present form and is promulgated in the future. School administrators, counselors, teachers and District staff shall comply with specific accountability standards established by the Secretary of Public Education to ensure that every student has an opportunity to develop a next-step plan. The Public Education Department requires completion of a minimum of twenty-four units aligned to the state academic content and performance standards for graduation.

Early Graduation

***Students are encouraged to explore dual credit opportunities their final year of high school as an alternative to early graduation.**

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.

Students who wish to graduate before their graduating class should be aware of the following requirements:

1. Students must declare their plans for early graduation by the end of their sophomore year in their Next Step Plan and attend a determination meeting. Parent/Legal Guardian permission must be obtained for students under the age of 18.
2. Students must enroll in senior classes (English 12, a fourth math course, government and economics) during their graduating (3rd) year. Failure to do so will jeopardize their plans for early graduation.
3. Early graduates must take all high school assessments, as required by the Public Education Department, to earn a diploma. Early graduates will be classified as juniors until the diploma is granted.
4. Students completing graduation requirements at mid-year may participate in the spring commencement and receive their diplomas at that time. Diplomas are not issued mid-year.
5. If a student who is 18 or parent/legal guardian consent is unattainable and has extenuating circumstances, they may meet with their counselor, site administration and district administration prior to the first day of their senior year to determine early graduation.

General Education Diploma (GED)

Students wishing to obtain their GED must take and pass the High School Equivalency Exam. In order to take the exam, the student must meet with their high school principal and disenroll from their high school. All Los Lunas students seeking their GED must also meet with the principal of Century High School and the Director of Secondary Learning. Our goal at Los Lunas Schools is to find a viable option of opportunities for all students that lead to a high school diploma.

Testing

Graduation Requirements

- The SAT is the required State Assessment for 11th grade.
- 11th graders are required to take the NM-ASR (Science).
- Dynamic Learning Maps (Alternative Assessment required for students on Alternate Pathway)

Required Testing

- The PSAT is the required assessment for 10th grade.
- **ACCESS** for EL students

Offered Testing

- 9th grade PSAT
- 11th graders must take the PSAT in order to compete for National Merit Scholarships.
- The ASVAB is an aptitude test offered to any student.
- Accuplacer for UNMVC dual credit placement
- Advanced Placement (AP) exams are offered to students that are enrolled in AP courses.

Los Lunas High School Career Pathways

*Career pathways will be defined in each student's Next Step Plan for interests, goals and possible IEP needs.

General Program of Study				
	9th Grade	10th Grade	11th Grade	12th Grade
English	1001-English I 1064 English I ELD 1001-English I Pre-AP	1002-English II 1065- English II ELD 0897 -AP Seminar	1003-English III 1066- English III ELD 1012-English III DC 0897 -AP Seminar 1012- AP Literature & Composition	1004-English IV 1067- English IV ELD 1013–AP Language & Composition 1013-English IV DC
Math	2031-Algebra I 2034-Geometry 2034-Pre-AP Geometry 2041-Algebra II	2034-Geometry 2034-Pre-AP Geometry 2041-Algebra II	2041-Algebra II 2044-AlgII/Trig DC 2047-Math Analysis DC 2019 Math III (Requires IEP)	2047-Math Analysis (DC) 2044-Algebra II/ Trig DC 2097-Financial Literacy 2019 Math IV (Requires IEP)
Science	1711-Biology	1721-Chemistry	1712-Anatomy 1723-AP Chemistry 1715-AP Biology 1714-Zoology 1731- Physics	1712-Anatomy 1723-AP Chemistry 1715-AP Biology 1714-Zoology 1731- Physics

Social Studies	2717-New Mexico History (for cohorts 2025-2028)	2706-World History 2755 – AP World History 2797 Personal Finance/Financial Literacy (Class of 2029)	2729-U.S. History 2729-U.S. History DC 2725 – AP U.S. History	2741-Economics 2730-Government 2737-AP Government 2744-AP Macroeconomics
Required Elective	1401-Health 0803- Academic Student Success			
Elective	1252-Spanish I 1252-Spanish I DC 1271-Spanish I Spanish Speakers I	1253-Spanish II 1253-Spanish II DC 1272-Spanish for Spanish Speakers II	1202-AP Spanish Lang. 1203-AP Spanish Lit.	1202-AP Spanish Lang. 1203-AP Spanish Lit.
Elective	1232-Tiwa I 1232-Tiwa I DC	1232-Tiwa II 1232-Tiwa II DC		
Required Elective	2305-Physical Education 2112-JROTC-LET I 1123-Marching Band (2years) 2322-Weight Training I 3001,3004,3006,3010-Athletics 2314010- Fitness I 2314020-Fitness II			
Pathway Electives	See Pathways Below			

LLHS ELECTIVE COURSES 2025-2026

Intro. Science of Agriculture: 9th – 12th Science of Large Ag. Animals: 10th–12th Science of Small Animals: 11th – 12th Agricultural Internship: 12th	Health Care Occupations: 9th – 12th Health Care Occupations DC: 9th – 12th Medical Terminology: 10th – 12th Medical Terminology DC:10th – 12th Personal Care Attendant DC:11th –12th* Certified Nursing Assistant DC: 12th *	Legal System: 9th– 12th Law Studies: 9th – 12th Exploration of Public Service Careers: 9th – 12th Mock Trial: 10th – 12th Public Protective Social Services: 11th – 12th	JROTC-LET I: 9th – 12th JROTC-LET II: 10th – 12th JROTC-LET III: 11th – 12th JROTC-LET IV: 12th Military Skills I: 10th – 12th Military Skills II: 11th – 12th Military Skills III: 12th
Jazz Band 9, 10, 11, 12	Film and Digital Media I: 9th – 12th	Woodworking I: 10th – 12th	Tiwa I: 10th – 12th Tiwa I DC: 10th – 12th

Marching Band 9, 10, 11, 12 Symphonic Band 9, 10, 11, 12 Instrumental Wind Ensembles 9, 10, 11, 12	Film and Digital Media I DC: 9th – 12th Film and Digital Media II: 10th – 12th Film and Digital Media III: 11th – 12th Film and Digital Media IV:11th – 12th	Woodworking II: 11th – 12th	Tiwa II: 11th – 12th Tiwa II DC: 11th – 12th
Computer Applications: 9th – 12th Computer Applications DC: 9th – 12th Introduction to Python Programming: 10th – 12th	Intro to Engineering Design: 9th – 12th Principles of Engineering: 10th – 12th Aerospace Engineering: 11th – 12th Engineering Design and Development 11th – 12th	Sports Medicine I: 10th – 12th First Aid DC: 10th – 12th	Child and Human Develop: 9th – 12th Teacher Academy I: 10th – 12th Teacher Academy II: 11th – 12th Psychology (AP): 10th – 12th Psychology: 9th – 12th
Business Introduction: 9th – 12th Business Management (DC): 10th – 12th Accounting (DC): 10th – 12th Advanced Business Studies: 11th– 12th	Yearbook I: 10th – 12th Yearbook II: 11th – 12th Yearbook III: 12th	Welding I: 9th – 12th Welding II: 10th – 12th Welding III: 11th – 12th	Service Learning (Lending a Paw): 9th – 12th Leadership (Student Council): 9th – 12th Human Geography (AP): 9th– 12th
Drama I: 9th – 12th Drama II: 10th – 12th Drama III: 11th – 12th Art I: 9th – 12th Art II: 10th – 12th Art III: 11th – 12th Art IV: – 12th	eSports: 9th – 12th Weight Training I: 10th – 12th Weight Training II: 11th – 12th Weight Training III: 12th Athletics: 10th – 12th (Baseball, Basketball, Football, and Wrestling) – MUST be on an athletic team approved by the coach	Spanish I: 9th – 12th Spanish I DC: 10th – 12th Spanish for Spanish Speakers I: 9th – 12th Spanish II: 10th – 12th Spanish II DC: 11th – 12th Spanish for Spanish Speakers II: 10th – 12th Spanish Literature & Culture (AP): 11th – 12th Spanish Language (AP): 11th – 12th English Language Development: 9th – 12th	Office Aide/Teacher Aide: 11th – 12th (Must get Selection Card signed off on by responsible party or Admin) Study Skills/Credit Recovery: 10th – 12th (**Counselor Approval Required**) ***Late Arrival/Early Dismissal: **12th** (Must be on track to graduate with no credit recovery needed, **Counselor Approval Needed**)***

DC = DUAL CREDIT ***Students must have 2.0 GPA to qualify for Dual Credit CTE classes, and 2.5 GPA for Dual Credit Core Courses.**

LLHS CTE Programs of Study

Career Cluster	Program Name	Cluster Courses (Introduction)	Pathway Courses (Concentrator)	Completer
AGRICULTURE, FOOD & NATURAL RESOURCES	General Agriculture	0133 Introduction to the Science of Agriculture	0161 Science of Large Agriculture Animals;	0191 Ag Internship/OJT
ARTS, A/V TECHNOLOGY & COMMUNICATIONS	Media Production	1172 Film and Digital Media Film and Digital Media 1 DC	1176 Film and Digital Media II 1177 Film and Digital Media III	1606 Film and Digital Media IV
BUSINESS MANAGEMENT & ADMINISTRATION	Business Management	0221 Introductory Business	0223 Business Management (DC)	0297 Advanced Business Studies (DECA Store)
BUSINESS MANAGEMENT & ADMINISTRATION	Entrepreneurship	0221 Introductory Business	0207 Accounting	0297 Deca Advanced Business Studies
EDUCATION & TRAINING	Teacher Education	0550 Child & Human Development	0562 Teacher Academy 1 0563 Teacher Academy 2	2773 AP Psychology
LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY	Law	2761 Law Studies	2765 Mock Trial	2598 Public Protective Social Services CO-OP 2773 AP Psychology
LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY	Law Enforcement	2501 Exploration of public service	2761 Law Studies	2598 Public Protective Social Services CO-OP
LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY	Legal Services	2764 Legal System	2765 Mock Trial	2598 Public Protective Social Services CO-OP 2773 AP Psychology

Career Cluster	Program Name	Cluster Courses (Introduction)	Pathway Courses (Concentrator)	Completer
HEALTH SCIENCE	Health Science Fundamentals	1502 Health Care Occupations	1520 Medical Terminology	1597 Personal Care Attendant 1597 Certified Nursing Assistant
HEALTH SCIENCE	Veterinary Technician	0133 Introduction to the Science of Agriculture	0162 Science of Small Animals 0161 Science of Large Animals	0191 Ag Internship/OJT;
MANUFACTURING	Welding	2414 Welding I	2416 Welding II 2417 Welding III	2499 Precision Metalwork-Other
SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS	Engineering - PLTW	1615 Introduction to Engineering Design	1617 Principles of Engineering-PLTW 1621 Aerospace Engineering-PLTW	1620 Engineering Design/Development PLTW

Valencia High School Career Pathways

*Career pathways will be defined in each student's Next Step Plan for interests, goals and possible IEP needs.

General Program of Study				
	9th Grade	10th Grade	11th Grade	12th Grade
English	1001-English I 1001-English I Pre-AP	1002-English II 0897 -AP Seminar	1003-English III 1012- English III AP 1012-English III DC 0897 - AP Seminar 0898- AP Research	1004-English IV 1013–English IV AP 1013-English IV DC 0898- AP Research
Math	2031-Algebra I 2034-Geometry 2034-Pre-AP Geometry	2034-Geometry 2034-Pre-AP Geometry 2041-Algebra II 2043-Trigonometry 2047-Math Analysis 2053-Pre-Calculus	2041-Algebra II 2044-AlgII/Trig DC 2043-Trigonometry 2047-Math Analysis 2053-Pre-Calculus 2055 AP Calculus AB 2063-Statistics	2047-Math Analysis 2053-Pre-Calculus 2055 Calculus AB 2063- Statistics 2097-Financial Literacy

Science	1711-Biology	1703 Physical Science	1701- Earth and Space 1752-AP Environmental Science	1752-AP Environmental Science
Social Studies		2706-World History 2706-World History DC 2797 - Personal Finance	2729-U.S. History 2725-AP U.S. History 2725-DC U.S. History	2741-Economics 2730-Government 2737-AP Government 2744-AP Macroeconomics

Required Elective	1401-Health 0842 - Freshman Success			
Required Elective	2305-Physical Education **or** 2112-JROTC-LET I **or** 1123-Marching Band (2years) **or** 2314-Fitness I **or** 2322-Weight Training **or** 3001,3004,3006,3010 - Athletics			
Pathway Electives	See Pathways Below			

Career Cluster	**Program Name**	**Cluster Courses (Introduction)**	**Pathway Courses (Concentrator)**	**Completer**
Facility and Mobile Equipment Maintenance	**Automotive Technology**	**0901 Intro to Auto**	0920-Auto Tech II(DC) 0921 - Auto Tech III (DC)	**0998 Transportation Tech -Internship**

Cosmetology				
Personal Care Services	**Personal Care Human Services**	**0603 Cosmetology Licensing- Intro**	0695-Cosmetology II	**0698 Cosmetology Internship**
Restaurant and Food Services	**Prostart**	**0532 Prostart I**	**0533 Prostart II**	0539-ProStart Internship
Performing Arts		**1113-Drama I**	111**2**-Drama **II/Stagecraft**	**1199 Performing Arts - Other**
Military Science				
Security and Protective Services	**Military Science**	**2111 Intro to ROTC**	2112-JROTC / Leadership II	**2199 Military Science**
Performing Arts		**1122-Concert Band I or 1149-Symphonic Band I**	1122-Concert Band II or 1149-Symphonic Band II	1122-Concert Band **III** or 1149-Symphonic Band **III**
Recommended	1123-Marching Band I 1125-Jazz Band I	1123-Marching Band II 1125-Jazz Band II	1123-Marching Band III 1125-Jazz Band III	1123-Marching Band IV 1125-Jazz Band IV
Design/ Pre-Construction	**Civil Engineering**	**1615-Intro to Engineering Design**	**1617-Principles of Engineering - PLTW**	1620-Engineering Design and Development 1606 - Work Experience
Diagnostic Services				

Manufacturing Production Process Development	**Welding**	**2414 Welding**	**2416 Welding II**	**2497** Precision Metalwork (DC)
Media and Design Arts	**Media Production and Broadcasting**	**1906 Multi Media Productions I**	**1907 Multi Media Productions II Mass Media Communications**	**1999 Multi Media Communications Other, 1199 Fine/Performing Art**

Course Descriptions

Core Courses

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.

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
1001				English I	9	x	x	x
1001				Pre-AP English I	9	x	x	
1002				English II	10	x	x	
1002				Pre-AP English II	10	x		
1003	x	x		English III	11	x	x	x
1012				AP English III Language and Composition	11	x	x	x
1004	x	x		English IV	12	x	x	x
1013				AP English IV Literature and Composition	12	x	x	x
1010				Mythology	11-12	x	x	x
1010				Comparative Mythology	11-12			x
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. VHS, LLHS, CHS

1001 Pe-AP English I

Grade: 9

Credit: 1

Pre-AP English 1 focuses on reading, writing, and language skills that are relevant to students' current work and essential for students' future to future high school and college coursework. Texts take center stage, preparing students for close, critical reading and analytical writing. The course trains readers to observe small details in a text to arrive at a deeper understanding of the whole. It also trains writers to create complex sentences—building this foundational skill in route to sophisticated, longer-form analyses. VHS, LLHS

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. VHS, LLHS, CHS

1002 Pre-AP English II

Grade: 10

Credit: 1

Pre-AP English 2 builds on the foundations of the fundamentals of close observation, critical analysis, and the appreciation of author's craft. This course requires students to apply those practices to a new array of nonfiction and literary texts. As readers, students become aware of how poets, playwrights, novelists, and writers of nonfiction manipulate language to serve their purposes. As writers, students compose more nuanced analytical essays while never losing sight of craft and cohesion. LLHS

0897 AP Seminar

Grades 10-11

Credit: 1

This course engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts, listening to and viewing speeches, broadcasts, and personal accounts. Students learn to synthesize information from multiple sources, develop their perspectives in research-based written essays, and design and deliver oral and visual presentations, both individually and as a team. This course is intended to prepare students for the optional Advanced Placement Exam in this subject and should follow the published College Board guidelines. AP Seminar may count as English/Language Arts II or English/Language Arts III when taught by a Language Arts endorsed teacher and aligned to the NM 9-12 Language Arts Content Standards. **LLHS, VHS**

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. (DC) VHS, LLHS, CHS

English III Language & Composition Dual Credit (Eng 1110)

Grade: 11

Credit: 1.5 High School Credit (3 college credits)

The college level English course is designed to 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. (DC) LLHS, VHS

English IV Literature and Composition Dual Credit (Eng 1120 - Fall Semester; English 1410 - Spring Semester)

Grade: 12

Credit: 2 High School Credits (6 College credits)

The college level English course enables 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). (DC) LLHS, VHS

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 required Advanced Placement Exam in this subject and should follow the published College Board guidelines. VHS, LLHS, CHS

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. (DC) VHS, LLHS, CHS

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 required Advanced Placement Exam in this subject and should follow the published College Board guidelines. VHS, LLHS

1010 Mythology

Grade: 11-12
Credit: 1 Elective Credit
Prerequisite: A grade of C or better in English

Course offers the opportunity for students to study and reflect upon the themes presented in the body of literature being presented. Students improve their critical thinking skills as they determine the underlying assumptions and values within the reading selection, and as they understand how the work reflects society's problems and culture. The first semester will focus on an introduction to world mythology including but not limited to Greek, Roman, Norse, Egyptian, Mesoamerican, Celtic, and Japanese myths. The second semester will focus on exploring common themes found within a variety of mythological narratives including but not limited to Creating/Destruction, Tricksters, Mythical Creatures, and the Hero's Journey. Student competency will be measured through written assignment, project-based learning, oral discussion, etc. VHS, CHS

1010 Comparative Mythology

Grade: 11-12
Credit: 1 Elective Credit
Prerequisite: A grade of C or better in English

This course will build on the knowledge and skills students gained in *Mythology* and will allow them to further develop skills of analysis and critical thinking while comparing common themes within mythology across time periods and geographic regions. This course will, through the analysis of mythological stories, give students greater understanding of cultures across the world while also exploring the psychological aspect of myth and its application in the modern world. This course will investigate common themes in myth as they occur across various times and geographic locations. Students will be introduced to scholarly theories and methods of interpretation, compare and contrast themes and character types within and across cultures, and explore the influence of myth in religion, art, and culture throughout history. CHS

<u>English Language Development</u>

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
1062				English Language Development	9-12	x	x	x
1064				English Language Arts/ELD I	9	x	x	x
1065				English Language Arts/ELD II	10	x	x	x

1066				English Language Arts/ELD III	11	x	x	x
1067				English Language Arts/ELD IV	12	x	x	x
1271				Spanish for Native Speakers I	9-12	x		
1272				Spanish for Native Speakers II	10-12	x		
1277				Spanish Language Arts I	9-12		x	
1278				Spanish Language Arts II	10-12			

Bilingual and English Language Development Education Program Descriptions:

1062 English Language Development

Grades: 9 – 12

Credit: 1

This course satisfies obligations under Title VI of the Civil Rights Act of 1964 for English Learner (EL) students to attain English language proficiency (ELP). This course is for pull-out ELD instruction, or at the elementary level, for a dedicated ELD block of minimum 45 minutes during self-contained instruction. This course is for ELs to attain ELP, as measured by the department approved annual ELP assessment. This course must consider the ELP level of ELs and include instruction in social, instructional, and academic uses of the English language and its basic structures, and focus on reading, writing, speaking, and listening. This course must follow the current state-adopted ELD Standards Framework. This course code may be repeated. If this course code is used for ELD instruction as part of a state-funded bilingual program at the elementary level, the teacher must have a Bilingual or TESOL endorsement; at the secondary level a TESOL endorsement.

1064 English Language Arts/ELD I

Grades: 9

Credit: 1

Prerequisite: Take courses in sequence

Note: This class fulfills the English credit requirement for the student.

English Language Arts ELD I - Substituted for Graduation - Grade 9 - This course aligns with grade-level New Mexico Common Core State Standards (NMCCSS) for English Language Arts (ELA) and the current state-adopted English Language Development (ELD) Standards. This course is intended for English learners (Els) whose English language proficiency level (ELP) is nearing proficiency, as measured by the department-approved annual ELP assessment. This course integrates grade-level ELA content with ELD based on the ELP level of Els. Teachers are required to have secondary licensure, be endorsed in ELA, and trained to support Els (under federal legal obligations to Els). Course 1064 may be substituted for 1001 to receive high school graduation credit, where applicable, if 1064 meets all course requirements for 1001. See course description for 1001 above for more information. If this course is used for Els participating in a state-funded bilingual program, the teacher must also have a TESOL endorsement. VHS, LLHS, CHS

1065 English Language Arts/ELD II

Grades: 10
Credit: 1
Prerequisite: Take courses in sequence
Note: This class fulfills the English credit requirement for the student.

English Language Arts ELD II - Substituted for Graduation - Grade 10 - This course aligns with grade-level New Mexico Common Core State Standards (NMCCSS) for English Language Arts (ELA) and the current state-adopted English Language Development (ELD) Standards. This course is intended for English learners (Els) whose English language proficiency level (ELP) is nearing proficiency, as measured by the department-approved annual ELP assessment. This course integrates grade-level ELA content with ELD based on the ELP level of Els. Teachers are required to have secondary licensure, be endorsed in ELA, and trained to support Els (under federal legal obligations to Els). Course 1065 may be substituted for 1002 to receive high school graduation credit, where applicable, if 1065 meets all course requirements for 1002. See course description for 1002 above for more information. If this course is used for Els participating in a state-funded bilingual program, the teacher must also have a TESOL endorsement. VHS, LLHS, CHS

1066 English Language Arts/ELD III

Grades: 11
Credit: 1
Prerequisite: Take courses in sequence
Note: This class fulfills the English credit requirement for the student.

English Language Arts ELD I - Substituted for Graduation - Grade 9 - This course aligns with grade-level New Mexico Common Core State Standards (NMCCSS) for English Language Arts (ELA) and the current state-adopted English Language Development (ELD) Standards. This course is intended for English learners (Els) whose English language proficiency level (ELP) is nearing proficiency, as measured by the department-approved annual ELP assessment. This course integrates grade-level ELA content with ELD based on the ELP level of Els. Teachers are required to have secondary licensure, be endorsed in ELA, and trained to support Els (under federal legal obligations to Els). Course 1066 may be substituted for 1003 to receive high school graduation credit, where applicable, if 1066 meets all course requirements for 1003. See course description for 1003 above for more information. If this course is used for Els participating in a state-funded bilingual program, the teacher must also have a TESOL endorsement. VHS, LLHS, CHS

1067 English Language Arts/ELD IV

Grades: 12
Credit: 1
Prerequisite: Take courses in sequence
Note: This class fulfills the English credit requirement for the student.

English Language Arts ELD IV - Substituted for Graduation - Grade 12 - This course aligns with grade-level New Mexico Common Core State Standards (NMCCSS) for English Language Arts (ELA) and the current state-adopted English Language Development (ELD) Standards. This course is intended for English learners (Els) whose English language proficiency level (ELP) is nearing proficiency, as measured by the department-approved annual ELP assessment. This course integrates grade-level ELA content with ELD based on the ELP level of Els. Teachers are required to have secondary licensure, be endorsed in ELA, and trained to support Els (under federal legal obligations to Els). Course 1067 may be substituted for 1004 to receive high school graduation credit, where applicable, if 1067 meets all course requirements for 1004. See course description for 1004 above for more information. If this course is used for Els participating in a state-funded bilingual program, the teacher must also have a TESOL endorsement. VHS, LLHS, CHS

1271 Spanish for Spanish 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. LLHS

1272 Spanish for Spanish Speakers II

Grades: 10 – 12

Credit: 1

Prerequisite: Spanish for Spanish 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. LLHS

1277 Spanish Language Arts I

Grades: 9

Credit: 1

This course provides instruction in Spanish Language Arts (SLA) with an emphasis on communication and literacy skills (speaking, reading, writing, listening and comprehension). This course addresses the Common Core State Standards (Common Core en Espanol) for SLA. This 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. Genres of literature are introduced and defined, with writing exercises often linked to reading selections. This course is taught in Spanish (home/heritage language). VHS

1278 Spanish Language Arts II

Grades 10

Credit: 1

This course provides instruction in Spanish Language Arts (SLA), with an emphasis on communication and literacy skills (speaking, reading, writing, listening and comprehension). This course must address the Common Core State Standards (Common Core en Espanol) for SLA. The course offers a balanced focus on composition and literature. Students learn about alternate aims and audiences of written compositions by writing persuasive, critical, and creative multi paragraph thematic essays and compositions. Students study various genres and improve their reading rate and comprehension, and develop skills to determine authors' intent and theme. This course is taught in Spanish (home/heritage language).

Mathematics

Students are required to complete four math credits. Recommended sequence: Algebra I, Geometry, and Algebra II; the fourth math credit should align with students' **postsecondary** and career goals.

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
2031				Algebra I	9	x	x	x
2034				Geometry	9-11	x	x	x
2090				Geo STATS	10	x		
2034				Pre AP Geometry	9-10	x	x	
2044				Algebra II	10-11	x	x	x
2097				Financial Literacy	12	x	x	x
2029				Statistics	11-12	x	x	x
2047				Math Analysis	11-12	x	x	x
2053				Pre-Calculus	10-12		x	x
2058				Calculus AB	11-12		x	x
2058				AP Calculus AB	11-12		x	x
2059				AP Calculus BC	12			
2060				AP Statistics	11-			x

					12			
2099		x		College Algebra	11-12			x
NOTE: ACCUPLACER Test determines Dual Enrollment Eligibility								

Math Course Descriptions:

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. VHS, LLHS, CHS

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. VHS, LLHS, CHS

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. *(Pre-AP) **VHS,** LLHS

2090 Geo-Stats

Grade: 10

Credit 1

Prerequisite: Algebra I

This course, Geo-Stats, short for Geometry and Statistics focuses on the essential component of

Geometry and meaningfully corporate skills and concepts in Statistics that all students should engage in. to be well-rounded citizens. LLHS

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. VHS, LLHS, CHS

2044 Algebra II/Trigonometry

Grades: 10 – 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. VHS

2044 Algebra II/Trigonometry (Dual Credit Math 1215)

Grades: 11 – 12
Credit: 1.5 (3 College Credits)
Prerequisite: Pre AP Geometry; 2.5 GPA; SAT Math: 46 OR Accuplacer Score 218-238

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.
UNM -V (1220) Preparation for 1240 and 1430. The study of equations, functions and graphs, reviewing linear and quadratic functions, and concentrating on polynomial, rational, exponential and logarithmic functions. Emphasizes algebraic problem-solving skills and graphical representation of functions. Meets New Mexico General Education Curriculum Area 2: Mathematics and Statistics. LLHS

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. VHS, LLHS, CHS
NCAA Clearinghouse does not accept Financial Literacy as a math credit.

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. VHS, LLHS, CHS

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. VHS, LLHS, CHS

2047 Math Analysis (Dual Credit Math 1220)

Grades: 11 – 12
Credit: 1.5 High School Credit (3 College Credits)
Prerequisite: Algebra II, GPA: 2.5, SAT Math: 540 OR Accuplacer: 239-248
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.
(1215) A study of linear and quadratic functions, and an introduction to polynomial, absolute

value, rational, radical, exponential, and logarithmic functions. A development of strategies for solving single-variable equations and contextual problems.
VHS LLHS

2053 Pre-Calculus

Grades: 10 – 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. VHS, LLHS, CHS

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 required Advanced Placement Exam in this subject and should follow the published College Board guidelines. VHS, LLHS, CHS

2059 AP Calculus BC

Grades: 12

Credit: 1

Prerequisite: AP Calculus AB with a grade of "C" or better

AP Calculus BC - Grades 11 - 12 - This course is higher than the level of Algebra II and aligns to College Board's AP Calculus BC content. This course is intended for students who have attained the objectives of pre-calculus. AP Calculus BC covers the same topics as AP Calculus AB (Refer to course code 2058 for topics) plus parametric equations, polar coordinates, vector-valued functions, and infinite sequences and series. This course is intended to prepare students for the optional Advanced Placement Exam in this subject and should follow the published College Board guidelines. VHS, LLHS, CHS

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 required Advanced Placement Exam in this subject and should follow the published College Board guidelines. VHS, LLHS, CHS

2099 College Algebra

Grade: 11-12

Credit: 1

(1215) A study of linear and quadratic functions, and an introduction to polynomial, absolute value, rational, radical, exponential, and logarithmic functions. A development of strategies for solving single-variable equations and contextual problems.

(1220) Preparation for 1240 and 1430. The study of equations, functions and graphs, reviewing linear and quadratic functions, and concentrating on polynomial, rational, exponential and logarithmic functions. Emphasizes algebraic problem-solving skills and graphical representation of functions. Meets New Mexico General Education Curriculum Area 2: Mathematics and Statistics.

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: Biology, Chemistry and 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.

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
1711				Biology I	10	x	x	x
1721				Chemistry I	10-12	x		x
1725				AP Chemistry	11-12	x		
1735	x			Physics I	10-12			x
1703				Physical Science	10-12		x	
1713				Anatomy	11-12	x		x
1714				Zoology	11-12	x	x	

1741				Integrated Science	9-12			x
1701				Earth Science	10-12		x	x
1752				AP Environmental Science	11-12	x	x	x
1715				AP Biology	10-12	x		
1739				AP Physics 1	10-12			
0873				MESA (Elective Credit)	9-12		x	

Science Course Descriptions:

1741 Integrated Science

Grade: 9

Credit: 1

Integrated Science I - This phenomena based course addresses ideas and skills students build on from middle school science where students explain phenomena in the earth and space, life, physical sciences; and engineering, technology, and the applications of science. This course focuses on applicable grade-level multidimensionality of the NM STEM Ready! Science Standards addressing topics of: matter and its interactions; matter and energy; Earth's systems; Earth and human activity; ecosystem - interaction, energy, and dynamics; and engineering design. CHS

1711 Biology I

Grades: 9-10

Credit: 1

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 ecology. (DC) VHS, LLHS, CHS

1721 Chemistry I

Grades: 10–12

Credit: 1

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) LLHS, CHS

1725 AP Chemistry

Grade: 11-12

Corequisite: Chemistry I, Biology I, and Algebra II

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. This course is intended to prepare students for the required Advanced Placement Exam in this subject and should follow the published College Board guidelines. LLHS

1735 Physics I

Grades: 10-12
Credit: 1
Prerequisite: Algebra II

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. LLHS, CHS

1703 Physical Science

Grades: 10-12
Credit: 1
Prerequisite:

This phenomena based course addresses ideas and skills from earlier grades where students explain more phenomena central to physical sciences with connections to the earth and space sciences. This course focuses on applicable grade-level multidimensionality of the NM STEM Ready! Science Standards addressing topics of: structure and properties of matter; chemical reactions; forces and interactions; energy; waves and electromagnetic radiation; and engineering design. VHS

1713 Anatomy and Physiology

Grades: 11 – 12
Credit: 1
Pre requisite: Biology I

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. LLHS, CHS

1761 Astronomy

Grades: 11 – 12
Credit: 1

This phenomena based course focuses on applicable grade-level multidimensionality in the NM STEM Ready! Science Standards, exploring the processes that govern the formation, evolution, and workings of the universe, solar system, stars, galaxies, interstellar bodies, and engineering design. CHS, LLHS

1701 Earth and Space Science

Grades: 10 - 12
Credit: 1
Pre requisite: Biology I

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. VHS, CHS

1714 Zoology

Grades: 11 - 12
Credit: 1
Prerequisite: Biology
Course examines biological systems in more detail, concentrating on the particular subtopic of zoology. LLHS, VHS

1752 AP Environmental Science
Grades: 11 – 12
Credit: 1
Prerequisite: Any ONE of the following: Integrated Science or Biology I or Chemistry I or Earth Science
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 required Advanced Placement Exam in this subject and follows the published College Board guidelines. VHS

1715 AP Biology
Grades: 10 – 12
Credit: 1
Prerequisite: Biology and Chemistry
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 required Advanced Placement Exam in this subject and should follow the published College Board guidelines. LLHS

1739 AP Physics 1
Grades: 10 – 12
Credit: 1
Prerequisite: Algebra II
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 required Advanced Placement Exam in this subject and should follow the published College Board guidelines.

0873 Math Engineering Science Achievement (MESA)
Grades: 9-12
Credit: 1
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. VHS

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.

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
2706		x		World History and Geography	10	x	x	x
2797				Personal Finance	10	x	x	x
2755				AP World History	10	x	x	x
2729	x	x		U.S. History/Geography	11	x	x	x
2725				AP U.S. History	11	x	x	x
2730				Government	12	x	x	x
2741				Economics	12	x	x	x
2737				AP Government and Politics	12	x	x	x
2744				Macroeconomics	12	x	x	x
2744				AP Macroeconomics	12	x	x	
2710				AP European History	11-12			
2773				AP Psychology	10-12	x	x	x
2771	x			Psychology	9-12	x		x

Social Studies Course Descriptions:

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. *(DC) VHS, LLHS, CHS

2755 AP World History

Grade: 10

Credit: 1

The purpose of this course is to develop greater understanding of the evolution of global processes and contracts, in interaction with different types of human societies. Focused primarily on the past 1,000 years of global experience the course builds an understanding of cultural, institutional, and technological precedents that, along with geography, set the human state prior to 1000 C.E. (AP World History will need to include the geography component in the written and delivered curriculum in order to meet the graduation requirement.) This course is intended to prepare students for the required Advanced Placement Exam in this subject and should follow the published College Board guidelines. LLHS, VHS

2797 PERSONAL FINANCE

Grade: 10

Credit: 1

Course provides an understanding of the concepts and principles involved in managing one's personal finances. Topics may include saving and investing, credit and debt, insurance, taxes and social security, spending patterns and budget planning, contracts, and consumer protection. An overview of the American economy may be provided.

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. *(DC) VHS, LLHS, CHS

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 required Advanced Placement Exam in this subject and should follow the published College Board guidelines. VHS LLHS

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. *(DC) VHS, LLHS, CHS

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. *(DC) VHS, LLHS, CHS

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 required Advanced Placement Exam in this subject and should follow the published College Board guidelines. VHS, LLHS

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 required Advanced Placement Exam in this subject and should follow the published College Board guidelines. LLHS, VHS

2744 Macroeconomics

Grades: 12

Credit: 1

Note: This course is paired with Government and Politics

Course is designed to parallel a semester of college level 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. *(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 required Advanced Placement Exam in this subject and should follow the published College Board guidelines.

2771 Psychology

Grades: 9 – 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. LLHS, CHS

2773 AP Psychology

Grades: 10 – 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 required Advanced Placement Exam in this subject and should follow the published College Board guidelines. LLHS, VHS

Physical Education/Health

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
2305				Physical Education	9	x	x	x
2304				Team Sports I, II, III, IV	9-12	x	x	
3001				Athletics – Football **	9-12	x	x	
3004				Athletics – Basketball **	9-12	x	x	
3006				Athletics – Wrestling **	9-12	x	x	
3010				Athletics – Baseball **	9-12	x		
2314				Fitness I, II, III **	10-12	x	x	x
2322				Weight Training, I, II, III**	10-12	x	x	x
1401				Health	9-12	x	x	x
1123				Marching Band I, II, III, IV**	9-12	x	x	
2111				JROTC/Leadership Education Training LET I, II, III, IV **	9-12	x	x	
1540	x			Sports Medicine I	10-12	x	x	

**This course may be taken to meet the high school graduation requirement. See course description under Electives: Athletics/Army JROTC/Band

Physical Education/Health Course Descriptions:

2305 Physical Education

Grade: 9
Credit: 1
Note: Dressing out required with established dress code.
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. VHS, LLHS, CHS

1540 Sports Medicine
Grades: 9 – 12
Credit: .5
Lab Fee: $15
This course is a study and analysis of injuries commonly associated with athletes. The course explores the roles of the athletic trainer, physician and coach as they relate to the physiological and psychological welfare of the athlete. The lab portion of the class is integrated.(DC) VHS LLHS

1405 First Aid & CPR (Dual Credit)
Grades 10-12
Credit: 1 High School Credit (3 College Credits)
Lab Fee: $15
Course provides specialized instruction in first aid techniques, cardiopulmonary resuscitation,relief of obstructed airways, and general safety procedures and behaviors. Course topics may include an overview of community agencies and hotlines providing emergency care and information. LLHS

1401 Health
Grades: 9 – 12
Credit: .5
Note: This course is paired with NM History and is a graduation requirement.
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. VHS, LLHS, CHS

*ATHLETICS, TEAM SPORTS, FITNESS, WEIGHT TRAINING, MARCHING BAND, JROTC descriptions can be found on pages 49,50,and 59.

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.

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
2019				Math I, II, III, IV	9-12	x	x	x
2899				Functional Academics I, II, III, IV	9-12	x	x	x
2806				Daily Living I, II, III, IV	9-12	x	x	x
0143				Greenhouse I, II	9-12	x		
2807				Job Competency I, II, III, IV	9-12	x	x	x
2804				Recreation and Leisure I, II, III, IV	9-12	x	x	
2806				Social Development Instruction I, II, III, IV	9-12		x	
2808				Work Study I, II	11-12	x	x	x
1118				Independent Study	9-12	x		

**At Century High School, Functional Academics, Daily Living, Job Competency and Recreation and Leisure are only offered online for homebound students.

Alternative Program Course Descriptions:

2019 Math I, II, III, IV

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. VHS LLHS

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. VHS LLHS

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. VHS LLHS

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. LLHS

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. VHS LLHS

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. VHS LLHS

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: 11-12
Credit: 1-3 credits per school year. 0.5 – 1.5 credits per semester. 0.5 credit per semester for taking the class and 0.5 – 1.0 credit per semester for a student who has completed 90 work hours (0.5 cr.) or 180 work hours (1.0 cr.)
Prerequisite: Administrative Approval.
Notes: Students attending this program will attend their academic classes daily and be granted a late arrival/early dismissal to participate in employment during school hours. Work sites may be on or off campus and the work may result in stipend, wages, internship, or volunteer experiences with established employers and approval by school administration. Student will also be required to present W-2 or pay stubs, as well as a completed employer checklist form periodically as required by your school. Students who do not abide by the expectations of the Work Study program will be removed from the program and may not receive credit. 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. LLHS

2899-Independent Study
Grade: 9-12
Prerequisite: Administrative Approval
Special Education Other

Elective Courses

Athletics

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
2304				Team Sports I, II, III, IV **	9-12	x	x	
3001				Athletics – Football **	9-12	x	x	
3004				Athletics – Basketball **	9-12	x	x	
3006				Athletics – Wrestling **	9-12	x	x	
3010				Athletics – Baseball **	9-12	x		

2314				Fitness I, II, III **	9-12	x	x	x
2322				Weight Training I, II, III **	9-12	x	x	x
1540	x			Sports Medicine I, II	10-12	x	x	

**This course may be taken to meet the physical education high school graduation

requirement. **Athletic and Health Course Description**

2304 Team Sports I, II, III, IV**

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. VHS LLHS

3001 Athletics Football**

Course that provides instruction and development of skills in football. This course may be taken to meet the high school graduation requirement. VHS LLHS

3004 Athletics Basketball**

Course that provides instruction and development of skills in basketball. This course may be taken to meet the high school graduation requirement. VHS LLHS

3006 Athletics Wrestling**

Course that provides instruction and development of skills in wrestling. This course may be taken to meet the high school graduation requirement. LLHS

3009 Athletic Track**

Course that provides instruction and development of skills in track. This course may be taken to meet the high school graduation requirement.

3010 Athletics Baseball**

Course that provides instruction and development of skills in baseball. This course may be taken to meet the high school graduation requirement. VHS LLHS

2314 Fitness I, II, III**

Grades: 9 – 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. Fitness I may be taken to meet the high school graduation requirement. VHS, LLHS, CHS

2322 Weight Training I, II, III**

Grades: 9 – 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. Weight Training I may be taken to meet the high school graduation requirement. VHS LLHS CHS

1540 Sports Medicine I, II
Grades: 10-12
Credit: 1
Class Fee: $15
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. (DC) VHS LLHS

Army JROTC

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
2111/2112				JROTC/Leadership Education Training LET I**, II, III, IV	9-12	x	x	
2199				Military Skills I, II, III	10-12	x	x	

**This course may be taken to meet the physical education high school graduation

requirement. **Army JROTC Course Descriptions:**

2111/2112 JROTC/Leadership Education Training LET I, II, III, IV**
Grades: 9 – 12
Credit: 1
Prerequisite: Take courses in sequence. To advance to LET III, cadets must have passed both semesters of LET II. To advance to LET IV, cadets must have passed all previous semesters.
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**. Military uniform will be issued and required to wear all day on the Uniform Wear and Inspection Day. Uniforms are required to be returned dry cleaned or a charge of $10 for dry cleaning will be assessed for the Class B uniform, and $20 for the Class A uniform. VHS LLHS**

2199 MILITARY SKILLS I, II, III

Grades: 10-12

Credit: 1

Prerequisites: LLHS - JROTC I, II, III, IV. To advance to Military Skills II, cadets must have passed both semesters of Military Skills I. To advance to Military Skills III, cadets must have passed all 4 previous semesters of Military Skills I and II.

Competitions are mandatory for all cadets participating in this class. Cadets must be eligible according to NMAA eligibility guidelines. Physicals are required for this class

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, and 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 and STEM. LLHS

Family Consumer Science

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
0576				GRADS I - Teen Pregnancy	9-12			x
0580				GRADS II - Newborn	9-12			x
0581				GRADS III - Parenting	9-12			x
0583				GRADS IV - Independent Living	9-12			x

Family Consumer Science Course Description.

0576 GRADS I - Teen Pregnancy

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. CHS

0580 GRADS II - Newborn

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. CHS

0581 GRADS III - Parenting

Grades: 9 – 12

Credit: 1

Parenting - A course designed for the teen parent with a child 1-3years 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. CHS

0583 GRADS IV - Independent Living

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. CHS

Modern Languages

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
1252	x			Spanish I	9-12	x	x	x
1253	x	x		Spanish II	10-12	x	x	x
1254				Spanish III	11-12	x	x	x
1202				AP Spanish Language	11-12	x		x
1203				AP Spanish Literature	11-12	x		
1271				Spanish for Spanish Speakers I	9-12	x		
1272				Spanish for Spanish Speakers II	10-12	x		
1232	x	x		Native American I (TIWA)	9 - 12	x	x	
1233	x	x		Native American II (TIWA)	10-12	x	x	
1234	x	x		Native American III (TIWA)	11-12	x	x	

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) VHS LLHS CHS

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) VHS LLHS CHS

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. CHS

1202 AP Spanish Language

Grades: 11 – 12
Credit: 1
Prerequisite: Spanish II- 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 required Advanced Placement Exam in this subject and should follow the published College Board guidelines. VHS LLHS CHS

1203 AP Spanish Literature

Grades: 11 - 12
Credit: 1
Prerequisite: AP Spanish Language- Required "B" or better

Course is designed to parallel college level Introduction to Hispanic Literature courses (offered at a third-year level); AP Spanish Literature courses cover representative works from the literatures of Spain and Spanish America, encompassing all genres. The courses build students' Spanish language proficiency so that they are able to read and understand moderately difficult prose and to express critical opinions and literary analyses in oral and written Spanish (an ability equivalent to having completed a third-year college level Spanish Language course). This course is intended to prepare students for the required Advanced Placement Exam in this subject and should follow the published College Board guidelines. LLHS

1271 Spanish for Spanish 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. LLHS

1272 Spanish for Spanish 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. LLHS

1232 Native American Studies (Tiwa I)

Grades: 10-12
Credit: 1
Prerequisite: Students must be a tribally enrolled member with the Pueblo of Isleta Enrollment/Census Department; or of another Tiwa speaking Pueblo such as the Pueblo of Sandia.
Tiwa I is an introduction to the Isleta Tiwa Language. Students are taught the basic grammatical skill of an oral language. Language skills include: listening and speaking which are emphasized at this level. (DC) **VHS** LLHS

1233 Native American Studies (Tiwa II)

Grades: 10 – 12
Credit: 1
Prerequisite:
1. Students must be a tribally enrolled member of the Pueblo of Isleta Enrollment/Census Department; or of another Tiwa speaking Pueblo such as the Pueblo of Sandia. 2. Must have successfully passed Tiwa I prior to enrollment of Tiwa II

Tiwa I is reviewed and practical conversational skills are taught. Students must be able to respond to the instructor by answering in the Tiwa language with simple phrases, commands, and questions. At the end of the school year, students should be able to communicate more comfortably in simple daily conversations. Students will be asked to do a project and present it to the class in the Tiwa language for a final grade. (DC) **VHS** LLHS

1234 Native American Studies (Tiwa III)

Grades: 11 – 12
Credit: 1
Prerequisite:
1. Students must be a tribally enrolled member of the Pueblo of Isleta Enrollment/Census Department; or of another Tiwa speaking Pueblo such as the Pueblo of Sandia. 2. Must have successfully passed Tiwa I and II prior to enrollment of Tiwa III

Students must be able to respond to the instructor by answering in the Tiwa language with

simple phrases, commands, and questions. At the end of the school year, students should be able to communicate more comfortably in simple daily conversations. Students will be asked to do a project and present it to the class in the Tiwa language for a final grade. (DC) **VHS**

Career Technical

Agriculture

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
0133				Intro Science of Agriculture	9-12	x	x	
0161				Science of Large Agriculture Animals	10-12	x	x	
0162				Science of Small Animals	11-12	x		
0191				Agricultural Internship	12	x	x	
0134				Physical Science of Agriculture	10-12		x	

Agriculture Course Descriptions:

0133. Intro Science of Agriculture

Grades: 9 – 12
Credit: 1
Class Fee: $15.00
Note: FFA dues are separate from class fee.

The local, national, and global definitions, history, and scope of agriculture in society is covered in this course. It also covers plant and animal sciences, production and processing; agricultural mechanics, including tool and machine operation; business and natural resource management; management of food and fiber systems; soil characteristics, formation and properties; and development of leadership and communication skills. VHS LLHS

0137. Agriculture Leadership and Communication

Grades: 10 – 12
Credit: 1
Class Fee: $15.00

Note: FFA dues are separate from class fee.
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.

0161 Science of Large Agriculture Animals

Grades: 10 – 12
Credit: 1
Class Fee: $15.00
Note: FFA dues are separate from class fee.
Course imparts information about the care and management of domesticated animals. Animal nutrition, health, reproduction, genetics, facilities, and marketing are all possible topics; Study of anatomy and physiology of livestock and other domesticated animals. Examination of developmental stages and analysis of feed ration for different parts of an animal's life cycle. Identification of environmental factors that affect an animal's performance, and recognition of animal behaviors to facilitate working with animals safely. (DC) LLHS

0162 Science of Small Animals

Grades: 11 – 12
Credit: 1
Prerequisite: Science of Large Agriculture Animals
Class Fee: $15.00
Note: FFA dues are separate from class fee.
Course imparts information about the care and management of domesticated animals. Animal nutrition, health, reproduction, genetics, facilities, and marketing are all possible topics; Study of anatomy and physiology of livestock and other domesticated animals. Examination of developmental stages and analysis of feed ration for different parts of an animal's life cycle; Identification of environmental factors that affect an animal's performance; Recognition of animal behaviors to facilitate working with animal safely. Specific focus of this course is on small animals including rabbits, fowl, dogs, and cats.
LLHS

0191 Agricultural Internship/OJT

Grades: 12
Credit: 1
Prerequisite: Science of Large Agriculture Animals
Class Fee: $15.00
Note: FFA dues are separate from class fee.
Through these courses, work experience is gained within the agricultural industry. Goals are set for the employment period. Classroom experience may involve further study in the field, improvement of employability and career readiness skills. VHS LLHS

0134 Physical Science of Agriculture

Grades: 10-12
Credit: 1.0 at VHS
Note: FFA dues are separate from class fee.
The course covers the global market place, development of a Program of Activities, and leadership development. Animal science emphasis is on the selection, reproduction and

genetics of breeds of beef, sheep, and swine, dairy cattle, horses, poultry, and specialty animals. Plant science emphasis is on the structure and function of plant parts; identification of common pasture and range plants; plant growth and development; sexual and asexual reproduction of plants. Soil science topics include nutrients, fertilizers, and organic matter; conservation practices and sampling techniques.

0151 Intro to Ag Mechanics

Grades: 9-12
Credit: 0.5
Lab Fee: $15
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.

0181 Environmental Science/ Natural resources

Grades: 10-12
Credit: 1
Note: FFA Dues are separate from class fees
Course combines the fields of ecology and conservation with planning for the efficient use and preservation of land, water, wildlife, and forests. Within this course may be topics covering environmental factors affecting water, water pollution, water and land use management, alternative energy resources, metals and minerals. VHS

Band

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	**VHS**	**CHS**			**LLHS**	**VHS**	**CHS**

1122				Concert Band I, II, III, IV	9-12	x	x	
1123				Marching Band I, II, III, IV **	9-12	x	x	
1122				Symphonic Band I, II, III, IV	9-12	x	x	
1125				Jazz Band I, II, III, IV	9-12	x	x	

**This course may be taken to meet the physical education high school graduation requirement.

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. **VHS** LLHS

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. VHS LLHS

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 a 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. VHS LLHS

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. VHS LLH

Drama

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
1111, 1113				Drama I, II, III, IV	9-12	x	x	
1112				Drama/Stagecraft I, II, III	10-12	x	x	

Drama Course Description

1111 Drama I, II, III, IV
1113 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. **VHS** LLHS

1112 Drama/Stagecraft I, II, III

Grades: 10 – 12
Credit: 1
Prerequisite: Drama I or Instructor Approval
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. **VHS** LLHS

Video Production

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
1172	x			Film and Digital Media I	9-12	x		x
1176				Film and Digital Media II	10-12	x		x
1177				Film and Digital Media III	11-12	x		
1178				Film and Digital Media IV	12	x		

Video Production Course Descriptions:

1172 Film and Digital Media I

Grades: 9 – 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 genres(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. LLHS, CHS

1176 Film & Digital Media II

Grades: 10-12
Credit: 1
Prerequisite: Take courses in order

Digital Film Production II focuses on the mastery of intermediate knowledge, skills and concepts related to film production. The student develops advanced techniques and applies them to

individual, collaborative and community-based projects. The student continues to investigate and analyze current trends in filmmaking, including career opportunities, contemporary technical and aesthetic considerations. The student analyzes and applies best practices to film production projects, and evaluates their effectiveness in field productions. LLHS, CHS

1177 Film & Digital Media III

Grades 11-12

Credit: 1

Prerequisite: Take courses in order

Digital Film Production III offers the student an opportunity to further study film making principles and techniques with emphasis on mastery of aesthetic and technical skills and concepts. The student refines advanced techniques through work on individual, collaborative and community based projects. The student integrates current trends in filmmaking, including career opportunities, and contemporary technical and aesthetic considerations into his/her work. The student develops and determines best practices for film production projects, and evaluates their effectiveness in field productions. Literacy is integrated throughout the course. LLHS

1178 Film & Digital Media IV

Grades 12

Credit: 1

Prerequisite: Take courses in order

Digital Film Production IV offers the student the opportunity to demonstrate mastery of film production skills and concepts with an emphasis on professional portfolio development. The student produces work that reflects an individual style and sensitivity to professional conventions. Students will demonstrate leadership in the creation of individual, collaborative and community-based projects and use these opportunities to identify career and educational choices. The student will demonstrate best practices for field productions and model awareness of contemporary technical and aesthetic considerations. Literacy is integrated throughout the course. LLHS

Visual Arts

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
1161				Art I - Comprehensive	9-12	x	x	x
1162				Art II - Studio Art	10-12	x	x	x
1163				Art III - Advanced Mixed Media	11-12	x	x	x
1181				Art IV - Portfolio	12	x	x	

1152				Art History	9-12			x
1158				AP Art	11-12	x		
1164				Pottery I	9-12		x	
1164				Pottery II	10-12		x	
1164				Pottery III	11-12		x	
1164				Pottery IV	12		x	

Visual Arts Course Descriptions:

1152 Art History

Grades: 9 – 12
Credit: 1
Course introduces significant works of art, artists, and artistic movements that have shaped the art world and have influenced or reflected periods of history. The evolution of art forms, techniques, symbols, and themes is often emphasized. LLHS, CHS

1161 Art I – Comprehensive

Grades: 9 – 12
Credit: 1
Class Fee: $20
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. VHS, LLHS, CHS

1162 Art II – Studio Art

Grades: 10 – 12
Credit: 1
Prerequisite: Art I – Comprehensive "C" or better.
Class Fee: $20.00
Course covers the same topics as Creative Art-Comprehensive courses, but focus on drawing and painting. In keeping with this attention on two-dimensional work, students typically work with several media (such as pen and ink, pencil, chalk, watercolor, tempera, oils, and acrylics, and so on) but some courses may focus on only one. LLHS, CHS

1163 Art III – Advanced Mixed Media

Grades: 11 – 12
Credit: 1

Prerequisite: Art II – Studio Art "C" or better.
Class Fee: $20.00
Course covers the same topics as Creative Art-Comprehensive courses, but focus on creating three-dimensional works. Students typically work with several media (such as clay, ceramics, wood, metals, textiles, and so on) but some courses may focus on only one. LLHS, CHS

1181 Art IV – Portfolio
Grades: 12
Credit: 1
Prerequisite: Art III - Advanced Mixed Media "C" or better.
Class Fee: 20.00
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. LLHS

1158 AP Art
Grades: 11-12
Credit: 1
Prerequisite: Teacher recommendation
Class Fee: $20.00
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 include 2D design and 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. This course is intended to prepare students for the required Advanced Placement Exam in this subject and should follow the published College Board guidelines.

1164 Pottery I
Grades: 9-12
Credit: 1
Class fee: $10.00
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. **VHS**

1164 Pottery II
Grades: 10-12
Credit: 1
Prerequisite: Pottery I with a "C" or better
Class fee: $20.00
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 have more opportunity for choices while creating themed projects that combine hand-building forms in sculptural and functional expressions. Students will create their own rubrics and self-evaluate. Students will be expected to exhibit in shows. Students will engage in studio responsibilities including exemplary cleanliness, personal responsibility and teamwork. Students will participate in daily setup, kiln loading and unloading and other studio tasks. VHS

1164 Pottery III

Grades: 11-12
Credit: 1
Prerequisite: Pottery I, II and with "C" or better.
Class fee: $20.00

The successful completion of Pottery II is required. This course includes wheel throwing and advanced hand building. Projects will build on Pottery I and Pottery II knowledge to include complex forms, elements and principles of design, and surface decoration. Students will be expected to safely and knowledgably operate all equipment in the studio. Students will have more opportunity for choices. Students will create their own rubrics and self-evaluate. Students will be expected to exhibit in shows. Students will engage in studio responsibilities including exemplary cleanliness, personal responsibility and teamwork. Students will participate in display setup, kiln loading and unloading and other studio tasks. **VHS**

1164 Pottery IV

Grades: 12
Credit: 1
Prerequisite: Pottery I, II and with "C" or better.
Class fee: $20.00

The successful completion of Pottery I, II, and III is required. Pottery students will be leaders, will refine or develop their ceramic style and will choose a focus for improvement and exploration. 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, and surface decoration. 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, personal responsibility and teamwork. Students will participate in display setup, kiln loading and unloading. **VHS**

Automotive Technology

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	**VHS**	**CHS**			**LLHS**	**VHS**	**CHS**
0901		x		Automotive I: Introduction to Automobiles	9-12		x	
0912		x		Automotive Technology Comprehensive II	9-12		x	
0912		x		Automotive Technology III	10-12		x	

0912		x		Automotive Technology IV	11-12		x	

0901 Automotive I: Introduction to Automobiles

Grades 9-12

Lab Fee: $15.00

Introduction Course primarily intended as a personal automobile technician course, but also designed for students exploring future careers in automotive technologies. Introduction to Automobiles courses offer an introduction to the various mechanical systems in automobiles and basic experience in maintenance tasks. The course may also cover career opportunities in the auto and/or transportation field. (DC) **VHS**

0912 Automotive Technology Comprehensive I

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)

0912 Automotive Technology III

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) **VHS**

0912 Automotive Technology IV

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) **VHS**

Business Management & Administration

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
0221				Introduction to Business	9-12	x		
0223				General Business Management	10-12	x		
0207				Accounting	11-12	x		
0299				Principals of Accounting	11-12			
0302	x			Computer Applications	9-12	x		
1606				Work Based Learning	12	x	x	x
1802				Principles of Marketing	11-12	x		

0221 Introduction to Business

Grades: 9 – 12
Credit: 1
Courses survey an array of topics and concepts related to the field of business. These courses introduce business concepts such as banking and finance; the role of government in business, consumerism, credit, investment, and management; and may provide a brief overview of the American economic system and corporate organization. In addition, Introductory Business courses may expose students to the varied opportunities in secretarial, accounting, management, and related fields. LLHS

0223 Business Management

Grades: 10 - 12
Credit: 1
Prerequisite – Introduction to Business
Course explores the world of business and marketing. Curriculum will focus on the skills, knowledge, and attitudes demanded by employers in the workplace. Students will study economics, marketing and basic accounting concepts. Emphasis will be placed on business computer applications including word processing, spreadsheets, and databases. Students will have the opportunity to demonstrate knowledge of retail merchandising, customer service, and working with a team by participating in the operation of a school-owned student operated snack

bar and classroom projects. Student participation in related co-curricular vocational student organizations, DECA and BPA, is strongly encouraged. LLHS

0207 Accounting

Grades: 11 – 12
Credit: 1
Pre-requisite – Business Management

Course introduces and then expands upon the fundamental accounting procedures used in small businesses. Typically, the first year covers the full accounting cycle, and incorporates topics such as payroll, taxes, debts, depreciation, ledger and journal techniques, and periodic adjustments. Students may learn how to apply standard auditing principles to the projects they work on and may prepare budgets and final reports. Calculators, electronic spreadsheets, or other automated tools may be used. LLHS

0207 Principles of Accounting

Grades: 11 – 12
Credit: 1
Prerequisite – Accounting

Course covers topics in accounting with advanced dual credit topics. An introduction to financial accounting concepts emphasizing the analysis of business transactions in accordance with generally accepted accounting principles (GAAP), the effect of these transactions on the financial statesman, financial analysis, and the interrelationships of the financial statements. (DC)

0202 Information Technology (Office Technology)

Grades: 9-12
Credit: .5

Courses provide numerous opportunities to explore and understand the responsibilities and duties common to the most office personnel. These comprehensive courses cover such topics as communication skills, reception and transmission of information via electronic media, filing and electronic record skills, reception and transmission of information via electronic media, filing and electronic record keeping, management, mail handling, scheduling meetings and conferences, creating itineraries, dictation and machine transcription, and varied computer application to include are word processing, spreadsheets, data bases, presentation software, and internet.

0221 Business Applications (Introductory Business)

Grades: 9-12
Credit: 1

Courses survey an array of topics and concepts related to the field of business. These courses introduce business concepts such as banking and finance; the role of government in business, consumerism, credit, investment, and management; and may provide a brief overview of the American economic system and corporate organization. In addition, Introductory Business courses may expose students to the varied opportunities in secretarial, accounting, management, and related fields. LLHS

0225 Financial Services: Making Money Work

Grades: 10-12

Credit: Distance Learning CNM 3 credit hours

Course provides students with an overview of ty-es 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

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) LLHS

1606 Work Based Learning

Grade: 12

Credit: 1

Course provides general work experience, and emphasizes career guidance, job search, application, and employability skills including: refining academic and job skills and developing positive work attitudes. Students are employed, but their employment is not necessarily related to a particular vocational program or course of study.

2763 Business Law*

Grade: 10-12

Credit: 0.5

Course presents a history and philosophy of law and the legal system in the United States, with a particular emphasis on those topics affecting students as future business leaders and employees (such topics may include contracts, commercial paper and debt instruments, property rights, employer/employee relationships, and constitutional rights and responsibilities).

0224 Small Business Ownership and Entrepreneurship*

Grade: 10-12

Credit: 1

Courses acquaint students with the knowledge and skills necessary to own and operate their own businesses. Topics from several fields typically form the course content: economics, marketing principles, human relations and psychology, business and labor law, legal rights and responsibilities of ownership, business and financial planning, finance and accounting, and communication. Several topics surveyed in Business Management courses may also be included.

0225 Financial Services*

Grade: 10-12

Credit: 0.5

Courses provide students with an overview of the American monetary and banking system, types of financial institutions, and the services and products they offer. Course content may include government regulations; checking, savings, and money market accounts; loans; investments, and negotiable instruments. As the courses provide information about career opportunities, students may practice the varying responsibilities of personnel within the banking

and finance industries.

0299 Business Other - Transportation and Distribution Logistics*

Grade: 10-12

Credit: 1

Semester 1 - This semester-long course introduces students to the complicated world of commercial transportation. Students undertake an overview of the fields of transportation, distribution, and logistics, learning the differences between the fields and the primary services provided in each. Students learn how warehousing, inventory, and other associated businesses impact the economy, which includes the advantages and disadvantages of automation on employment. Students will learn about the history of transportation including. Students examine the fields that serve to support and manage transportation systems. Lastly, the role of technology and technological development on transportation-related businesses is addressed

Semester 2 - Is a semester-long course that provides high school students with the history of logistics and recent advances in the field. Units include supply chain management, inventory and transportation management, and safety in the workplace. Logistics is a high-growth industry and stable career choice. There is something for every career-seeker, ability, and experience level. The objectives of this course are to introduce the student to the field of logistics planning and management and to explain the career opportunities that are available in this field.

1623 Production Systems

Grade: 10-12

Credit: 1.0

Production Systems - Course introduces students to the concepts of manufacturing technologies, from conception through production. Although courses vary, students typically analyze markets, design and develop prototypes, plan a marketing or sales strategy, manage a production plan, and manufacture useful products. The evolution and impact of technology on society's social, cultural, and economic systems and institutions is also explored.

1802 Principles of Marketing*

Grade: 10-12

Credit: 0.5

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.

1832 Marketing Strategy*

Grade: 11-12

Credit: 0.5

This course is designed to integrate the marketing and economic skills students have mastered

with the latest technology in marketing sales, mass media, research, and customer service presentation techniques. Emphasis is placed on creating a professional, polished approach to marketing products and services. Skills in technical writing, communications, mathematics, and application of current computer software are reinforced in this course. Work-based learning, internships and apprenticeships may be an integral part of this course.

Education & Training

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
0521				Child Development	0521	x		x
0599				Family/Consumer Science	9-12			x
0562				Teacher Academy	11-12	x		

Education Training Course Description.

0521 Child Development

Grades: 9 – 12
Credit: 1
The study of human growth and development across the life span with emphasis upon normal growth and milestones achieved in the physical, cognitive, social, and emotional systems. Educational and familial contexts are highlighted. Human Growth & Development introduces preservice educators, nursing students and others to lifespan development. During the semester students will become knowledgeable with the major theories of development that have been empirically studied. LLHS

0599 Family and Consumer Sciences

Grades: 9 – 12
Credit 1:
Semester 1 introduces high school students to the possibilities for careers in the human services professions. Through anecdotes, lessons, and a variety of assignments and projects, students learn about the broad variety of jobs available in human services. These begin with entry-level positions, such as associate social workers, that require a two-year Associate of Arts degree. Students also learn ethics and philosophies of the helping professions. The history of the profession, as well as the impact of the cultural, social, and economic environment on individual people, especially those who need social services assistance, is also explored.

Semester 2 introduces applications within professions related to family and community services.

Students identify degree and credential requirements for occupations in this pathway and identify individual, social, historical, economic, and cultural context to increase awareness of family and community services. Students develop the abilities necessary to evaluate and identify a range of effective communication strategies and skills for establishing a collaborative relationship with others. Students also complete a variety of projects to apply their skills and knowledge. Units are divided among career fields: Social Workers, Emergency Management and Planners, Therapists and Treatment Specialists, Education and Childcare.

0562 Teacher Academy

Grades: 10– 12

Credit 1:

Semester 1 introduces students to the field of education and training, and the opportunities available for early-childhood through adult and continuing education. Students gain an understanding of the career options available in teaching, administrative work, and support services. They also explore the education and background experience needed to succeed in these careers. Students learn about the evolution of the modern educational system in the United States, and the policies and laws that govern educational institutions. They also discover the similarities and differences between the ethical and legal obligations of working with adults versus working with children. Semester 2 Introduces students to the art and science of teaching. It provides a thorough exploration of pedagogy, curriculum, standards and practices, and the psychological factors shown by research to affect learners. In five units of study, lessons, and projects, students engage with the material through in-depth exploration and hands on learning, to prepare them for teaching and training careers. Students are given many opportunities to be the teacher or trainer, and to explore the tasks, requirements, teaching strategies, and research-based methods that are effective and high-quality. LLHS

0563 Teacher Academy 2

Grades: 9 – 12

Credit 1:

Teacher Academy 2 (Education Internship) -This course introduces the principles underlying teaching and learning, focused on Educators Rising Standards 5-7: 5) Implementing Instruction, 6) Using Assessments and Data and 7) Being a Reflective Practitioner. This course typically provides opportunities for students to develop their own teaching objectives, to design and implement lesson plans, and to experience teaching in a controlled environment under the supervision of a cooperating teacher. LLHS

<u>Health Sciences</u>

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
1504	x			Certified Nursing Assisting Program	12	x		

1506	x			Personal Care Attendant	11-12	x		
1520	x			Medical Terminology	10-12	x		x
1595				Health Careers	9-12			
1560	x			Health Informatics Data and Use	9-12	x		
1561	x			Health Informatics Transforming Data into Information	10-12	x		
1502				Health Care Occupations				
1503				Allied Health Occupations				
1660				Principals of Biomedical Science (PLTW)	9-12		x	x
1661				Human Body Systems (PLTW)	9-12		x	
1662				Medical Intervention (PLTW)	9-12		x	
1664				Biomedical Innovation (PLTW)	9-12		x	

1504 Certified Nursing Assistant Program

Grade: 12
Credit: 1
Pre requisite – Students must pass ACCUPLACER at the level that dictates college readiness.
Lab Fee: $15

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)

*-Computerized version of this course may not lead to NM Nursing Assistant Certification Exam but does provides exposure to the material on the Exam. LLHS

1506 Personal Care Attendant

Grade: 11-12
Credit: 1
Prerequisite – Students must pass ACCUPLACER at the level that dictates college readiness. Lab Fee:
Lab Fee: $15

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) LLHS

1595 Health Careers

Grade: 9 – 12

Credit: 1

Courses in this category offer instruction in related topics that are necessary or helpful in health care occupations; such topics may include mathematics, science, and/or communications. (DC)

1520 Medical Terminology

Grade: 10 – 12

Credit: 1

The study and understanding of medical terminology as it relates to diseases, their causes, and effects, and the terminology used in various medical specialties. Emphasis will be placed on learning the basic elements of medical words, appropriate spelling and use of medical terms, and use of medical abbreviations related to anatomy & physiology.(DC) **VHS** LLHS

1560 Health Informatics Data and Use

Grade: 9– 12

Credit: 1

This foundational course focuses on the use of data and databases within the health field. Students explore the following questions using project-based and problem-based scenarios. What are data? What are the sources of data in the medical and health informatics fields? How can we use data? How do we make sense of data? How many apply data to our own lives? Students interact with professionals in the health informatics field through interviews or on-site and/or virtual field trips. (DC)

1561 Health Informatics Transforming Data into Information

Grade: 10 – 12

Credit: 1

In this course, students study ways to use data to address both patient and industry needs in the health-care field. Students use software such as Microsoft Access, Excel and Balsamiq to collect and analyze data, develop a health-care registry, create a mobile app mockup and develop forms and systems to solve health-care problems. The following questions are addressed through project or problem-based scenarios: How can technology and analysis create better information to inform better decisions? How can we use technology tools to create information from data? How can we use technology to improve public and individual health? How can we use technology to protect patient privacy? (DC)

1501 Health Care Occupations Career

Grade: 9 – 12

Credit: 1

Course designed for students with an interest in medicine or the allied health fields. Health Care Occupations Career Exploration courses expose students to the opportunities available in a variety of occupational clusters within the health care industry (such as dental care, general and administrative services, lab technology, nursing, therapy, and vision care). Experiences in several of these occupational clusters may be provided, along with information and knowledge related to the health care industry as a whole. LLHS (DC)

1502 Health Science

Grade: 9 – 12

Credit: 1

Course usually offered as a series to provide orientation to, and refinement of, the knowledge and skills germane to the health care industry. Topics usually include (but are not limited to) an overview of health care delivery; patient care, including assessment of vital signs, body mechanics, and diet; anatomy and physiology; identification and use of medical equipment and supplies; medical terminology; hygiene and disease prevention; first aid and CPR procedures; laboratory procedures; and ethical and legal responsibilities. Clinical experiences in local health care settings are integral to the courses.

1503 Allied Health Occupations

Grade: 9 – 12

Credit 0.5 (Options can be combined up to 2.0 Credits)

- Allied Health Occupations/Nursing
- Allied Health Occupations/Physicians, Pharmacists, Dentist, Veterinarians
- Allied Health Occupations/Laboratory/Phlebotomist/Pathologist
- Allied Health Occupations/Therapeutics/PT/OT/Trainer/Hygienist/Dietician

Course covering the same scope of topics as Health Care Occupations course, also, enables students to choose one or several specialties to study in more detail. Course content depends upon the chosen field (such as physical or respiratory therapy, gerontology, medical laboratory technology, medical assisting, dental assisting, and so on).

1660 Principals of Biomedical Science (PLTW)

Grades: 9-12

Credit 1

The first course in the Biomedical Sciences Pathway allows students to problem solve real world scenarios. Students act as medical trainees by “shadowing” numerous biomedical professionals while learning about biology, anatomy and physiology, genetics, microbiology, and epidemiology. Students will experience what it is like to solve medical mysteries, diagnose and treat patients, and respond to an outbreak. Principles of Biomedical Science is a rigorous student-centered course that requires independent learning, active engagement, and critical thinking. (DC) CHS

1661 Human Body Systems (PLTW)

Grades: 9-12

Credit 1

Students examine the interactions of human body systems as they explore identity, power, movement, protection , and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Manikin; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medial cases. This course serves as a precursor for PLTW Biomedical Science. (DC) **VHS**

1662 Medical Intervention (PLTW)

Grades: 9-12

Credit 1

Prerequisite: Human Body Systems (PLTW)

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and

treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical advices, and diagnostics. This course is sequenced after PLTW Human Body Systems. (DC)

1664 Biomedical Innovation (PLTW)

Grades: 9-12
Credit 1
Prerequisite: Medical Intervention (PLTW)

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institutions. This course is sequenced after PLTW Medical Interventions 1662. (A Project Lead the Way course). (DC)

Hospitality and Tourism

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
0532				ProStart I	9-12		x	
0533				ProStart II	10-12		x	
0504				Nutrition	11-12		x	
0539				ProStart Internship	11-2		x	

0532 ProStart I

Grades: 9 – 12
Credit: 1
Prerequisite: Take courses in sequence
Class Fee: : $20.00

Course is designed to introduce student to industry standards such as customer relations, accounting, food cost controls and marketing. Students are also encouraged to explore a wide variety of careers found in the hospitality and restaurant industries. Students are trained in the National Restaurant Association's ServSafe Program. **VHS**

0533 ProStart II

Grades: 10 – 12
Credit: 1
Prerequisite: Take courses in sequence
Class Fee: : $20.00
Sequential course designed for students pursuing careers in hospitality/food service. This is an intensive program involving topics covering entrepreneurship and managerial techniques, portfolio and customer service skills, safety and sanitation, catering, quick serve, full service, knife skills, plate presentation and team work. Students are trained in National Restaurant Association's ServSafe Program. Students who complete the program, the 400-hour internship, and pass the national exam leave high school with a national certification. Co-sponsored by National Restaurant Association Education Foundation. **VHS**

0539 ProStart Internship
Grades: 11 – 12
Credit: 1
Prerequisite: Take courses in sequence
Class Fee: $20.00 per semester
Sequential course designed to provide the work experience component of the ProStart program of study. Student will work in an industry-based setting and be evaluated by work-based competencies. A total of 400 hours must be completed in the internship in order to receive the industry-recognized certification **VHS**

Cosmetology

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
0605				Cosmetology I	9-12		x	
0695				Cosmetology II	10-12		x	
0607				Cosmetology Specialized-Facial	10-12			

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. **VHS**

0695 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. **VHS**

0607 Cosmetology Specialized - Facial

Grades: 10 – 12
Credit: 1
Prerequisite: Cosmetology I
Class Fee: $20.00

Courses offer information and experience related to skin care, the provision of facials, make up application, and facial massage. These courses may also include topics such as hygiene and sanitation, human anatomy and skin conditions, entrepreneurship, and/or human relations.

Law, Public Safety, Corrections & Security

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
2761				Law Studies I	9-12	x		
2764				Legal Systems	9-12	x		
2765				Mock Trial	10-12	x		
2501				Exploration of Public Service Careers	9-12	x		

2504				Public Administration	11-12	x		
2775				Sociology	10-12			x

2761 Law Studies I

Grades 9-12

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. LLHS

2764 Legal Systems

Grades: 10 – 12

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. LLHS

2765. Mock Trial

Grades: 11-12

Credit: 1 (elective credit)

Prerequisite: Law Studies or Legal Systems

Mock Trial - Grades 9 - 12 - Students will learn about the law and practical application.

Students will learn how to speak, argue, and debate. The course will be a competition class for Mock Trial. Lawyers will work with students. LLHS

2501 Exploration of Public Service Careers*

Grades: 9 – 12

Credit: 1 (elective credit)

Semester 1 provides students with an overview of American politics and public administration, including how political institutions and public management systems at the local, state, and federal levels exercise supervisory authority and maintain accountability. Students explore the foundations of the U.S. government, the separation of powers, the federal civil service system,

and the relationship between the government and state and local officials. Students learn about the electoral process, political attitudes and opinions, and American political parties. Semester 2 introduces students to the field of law enforcement and the local, county, state, and federal laws that law enforcement personnel are sworn to uphold. The students also gain an understanding of the career options available in this field and the skills, education, and background experience needed to succeed. Students learn about the evolution of the role of law enforcement in the United States including key changes affecting law enforcement. Students learn about the interaction between local, county, state, and federal law enforcement agencies. Finally, students learn about the types of crime that are commonly committed and the procedures, evidence collection techniques, and technological advances that law enforcement personnel use to investigate crimes. LLHS

2775 Sociology*

Grades: 10 – 12
Credit: 0.5 (elective credit)

This course provides insight into the human dynamics of our diverse society. This is an engaging, one-semester course that delves into the fundamental concepts of sociology. This interactive course, designed for high school students, covers cultural diversity and conformity, basic structures of society, individuals and socialization, stages of human development as they relate to sociology, deviance from social norms, social stratification, racial and ethnic interactions, gender roles, family structure, the economic and political aspects of sociology, the sociology of public institutions, and collective human behavior, both historically and in modern times. CHS

<u>Sheet Metal</u>

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
2413				Sheet Metal I, II	10-12		x	

Sheet Metal Course Descriptions:

2413 Sheet Metal I, II

Grades: 10 – 12
Credit: 1
Class Fee: $10.00
Prerequisite: Take courses in sequence
Note: Skills USA 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).* **VHS**

Welding

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
2414		x		Welding I	9-12	x	x	
2416		x		Welding II	10- 12	x	x	
2417		x		Welding III	11- 12	x	x	
		x		Welding IV	11-12		x	
2495				Precision Metalwork	11-12		x	

Welding Course Descriptions:

2414 Welding I

Grades: 9 – 12
Lab Fee: $20.00
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. **VHS**

2416 Welding II

Grades: 10-12
Prerequisite: Pass Welding I with "C" or higher and a teacher's signature is required Lab Fee: $20.00
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) **VHS** LLHS

2417 Welding III

Grades: 11-12
Prerequisite: Pass Welding II with "C" or higher and a teacher's signature is required Lab Fee: $20.00
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. This is the third sequential course in the welding program of study meant to take a student into higher level knowledge and skill development. 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. **VHS** LLHS

2417 Welding IV

Grades: 11-12
Prerequisite: Pass Welding II with "C" or higher and a teacher's signature is required Lab Fee: $20.00
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. This is the third sequential course in the welding program of study meant to take a student into higher level knowledge and skill development. 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.

2495 Precision Metalwork

Grades: 12
Prerequisite: Pass Welding III with "C" or higher and a teacher's signature is required Lab Fee: $40.00
Note: FFA and Skills USA dues are separate from class fee.

In this course key content includes: Orientation to the Trade; safety obligations of all to ensure a safe workplace, OSHA regulation awareness, communication and professional/employability skills. Course provides students with related skills and knowledge necessary or desirable for careers in welding or machine technologies. The presentation of particular topics and skills, or their applications, may vary with the occupation or technology. For example, mathematics for welding students may differ in some respects from mathematics for machining students. **VHS**

Woodworking

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
0417				Woodworking I	10-12	x		
0418				Woodworking II	11-12	x		

Woodworking Course Descriptions:

0417 Woodworking I

Grades: 10 – 12
Credit: 1
Class Fee: $20

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. LL**HS**

0418 Woodworking II

Grades: 11 – 12
Credit: 1
Class Fee: $20
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 blueprints, 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. LLHS

Journalism and Yearbook

Course #	Dual Credit			Title	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
1903				Yearbook I, II, III, IV	10-12	x	x	x
0805				Media Literacy			x	

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. **VHS,** LLHS, CHS

1904 Editor

Grades: 11-12
Credit: 1
Prerequisite: Teacher recommendation required. Completed Yearbook I, II or III. Students will direct, lead, produce and edit a section of the yearbook or the newspaper along with staff of other students.

0805 Media Literacy

Grades: 9-12
Credit: 1
Media Literacy - Recommended for Students Grades 9-12 - Course will guide students through the process of analyzing, evaluating and creating messages in a wide variety of media modes, genres and forms. Students will use an inquiry-based instructional model that encourages them to ask questions about what they watch, see and read. They will learn ways to access, analyze,

evaluate and produce communication in a variety of forms. This course will help students understand the ways that words, images and sounds influence the way meanings are created, manipulated and shared in our contemporary global society. **VHS**

Engineering/Project Lead the Way (PLTW) Courses

Course #	Dual Credit			Title›	Grade Level	Offered at:		
	LLHS	VHS	CHS			LLHS	VHS	CHS
1615				Introduction to Engineering Design (IED)	9-12	x	x	x
1617				Principles of Engineering (POE)	10- 12	x	x	x
1619				Civil Engineering and Architecture (CEA)	10- 12		x	
1621				Aerospace Engineering (AE)	11- 12	x		
1620				Engineering Design and Development (EDD)	12	x	x	x

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: $20.00

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. Students work both individually and in collaborative teams to develop and document design solutions using engineering notebooks and 3D modeling software. VHS LLHS CHS

1617 Principles of Engineering (POE)

Grades: 10 – 12
Credit: 1

Co- or Prerequisite: IED & Geometry
Lab Fee: $20.00
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. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. VHS LLHS CHS

1619 Civil Engineering
Grade: 10-12
Prerequisite: IED
Course Fee: $20.00

PLTW Civil Engineering and Architecture - Recommended for Students Grades 10 - 12 - Students learn 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 architecture design software. (A Project Lead the Way course).

1620 Engineering Design and Development (EDD)
Grade: 12
Prerequisite: IED, POE, AE, CEA
Course Fee: $20.00

PLTW Capstone is a capstone course for students who are completing any of PLTW's high school programs. It is an open-ended research course in which students work in teams to design and develop an original solution to a well-defined and justified open-ended problem.

Teams draw on the knowledge, skills, and interests of each member, as they perform research to select, define, and justify a problem. Given this collaboration, team members leave the course with a broadened skillset and an appreciation for learning from their peers. After carefully defining the design requirements and creating multiple solution approaches, student teams select an approach, create, and test or model their solution prototype. As they progress through the problem-solving process, students work closely with experts and continually hone their organizational, communication, and interpersonal skills, creative and problem-solving abilities, and their understanding of the integration of processes such as the design process, experimental design, and the software development process. At the conclusion of the course, teams present and defend their original solution to an outside panel.

Course Fees are used to purchase consumable materials required for all courses, engineer's notebook etc.

1621 Aerospace Engineering

Grade: 10-12
Prerequisite: IED
Course Fee: $20.00

PLTW Aerospace Engineering - Recommended for Students Grades 10 - 12 - This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles. (A Project Lead the Way course).