LOS ALAMOS HIGH SCHOOL
AND
TOPPER FRESHMAN ACADEMY

COURSE CATALOG
2018 – 2019
COMPLETING COURSE SELECTION ON POWERSCHOOL

It is important to keep in mind that you are making course requests, not creating an actual schedule. You will not receive a class schedule until registration in August prior to the start of school. However, the courses you select at this time, including your alternate selections, are key to the development of the Master Schedule and in determining whether or not a course is offered as well as the number of sections needed and class sizes. Please review the 2018-2019 Course Catalog and make your selections carefully and thoughtfully.

1. Carefully review the graduation requirements listed on Los Alamos High School Graduation Requirements (pages 44 & 45), keeping in mind what is needed to graduate, such as four credits of math. Also consider additional college admission requirements such as three credits of foreign language or other requirements. For example, UC schools require a full credit of a continuous fine art class, such as Acting 1 and 2 or Fine Arts 1 and 2. Do not wait until your last semester of high school to come to this realization.

2. Complete the Course Selection Worksheet (page 46). List your required classes first. Then choose your electives, and finally, choose your alternatives. Make sure your alternate course selections are different from your required and elective course choices, and select alternates that you would like to take if your other choices are unavailable.

◆ Indicates courses open to freshmen.

Homework Indicators:

1 Minimal homework
2 Moderate homework
3 Substantial homework

3. Discuss your completed Course Selection Worksheet and your Next Step Plan with your parents/guardians.

4. Sign in to PowerSchool. (If you have forgotten your User ID or Password, please see your guidance counselor.) Click on the Class Registration icon, and follow the instructions. If you have problems registering online, don’t panic. For help with PowerSchool, call the PowerSchool Data Specialist at 663-2519.

5. Print a copy of your PowerSchool confirmation sheet. (If you are unable to print at home, please come to the library about a half-hour before your appointment to print your confirmation.)

6. Bring your confirmation sheet with you to your advisement appointment. (Incoming freshmen will also need to bring their completed Next Step Plan.) Meet with your advisor during your scheduled appointment to review your course selections and Next Step Plans. Please make every effort possible to keep your appointment with your advisor. The course selection process is not complete until you, your parent(s) and your advisor or counselor has signed your course selection sheet. It is extremely difficult to reschedule these appointments.

Online course selection will be available from February 1 (5:00 pm) to February 8 (5:00 pm). Recommendations are required when course prerequisites are not met. Teacher recommendations will be noted in your PowerSchool account.
Carter Payne ................................................................. Principal
Renee Dunwoody ......................................................... Assistant Principal
Jennifer Kielyka ......................................................... Dean of Students, Special Education Contact
Ann Stewart ................................................................... Athletic Director
Cassandra Olivas ......................................................... Guidance Counselor 10th – 12th A - G
Cristin Haake ............................................................... Guidance Counselor 10th – 12th H - O
Cindy Black ................................................................. Guidance Counselor 10th – 12th P - Z
Connie Goettee ............................................................. Student Placement Specialist
Kristen Pyle ................................................................. College & Careers Technology Department Chair
Ildiko Nadaskay-Goeller .............................................. English Department Chair
Jason Rutledge ............................................................. Fine and Performing Arts Department Chairs
Hans Peder Hanson ..................................................... Foreign Language Department Chair
Sue Wilson ...................................................................... Mathematics Department Chair
Elizabeth Bowden ....................................................... Science Department Chair
Colby Holland ............................................................. Social Studies Department Chair
Stephanie Meyer ........................................................... Special Education Department Chair
Whitney Pomeroy ........................................................... School of Choice Department Chair
Renee Dunwoody ........................................................... Special Programs Department Chair
Garret Williams ............................................................ Wellness Department Chair

TOPPER FRESHMAN ACADEMY
3800 Canyon Drive, Los Alamos, NM 87544
Main #: 505-663-2537

Jill Gonzales .................................................................. Principal
Michelle Harrison .............................................................. Guidance Counselor
Jon Pyle ................................................................. Freshman Academy Department Chair

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CHECK OUT THESE NEW COURSES:

Computer Maintenance (page 10)
Computer Graphics and Modeling (page 10)
Computer Game Design (page 10)

Advanced Programming (page 10)
High Intensity Military Fitness (page 13)
Oceanography (page 14)
Mandatory Course Selection Days – February 5 & 6, 2018

The course selection days are an important step in the registration process. You will have an opportunity to design your high school career through the course choices that you make. Please make sure to review the course selection process on the back of the front cover, to begin a successful 2018-2019 school year.

The courses requested during course selection by every TFA and LAHS student will be processed by the computer and classes will be placed in the master schedule in a manner that will produce the fewest number of conflicts for the greatest number of students.

Dates to Remember

February 1, 2018 - Future Topper Night (Class of 2022) & AP Night (6:00 pm).
February 2, 2018 - Online course selection opens (8:00am).
February 5 and 6, 2018 - Mandatory Advisor meetings to review course requests for TFA and LAHS students.
February 5, 2017 - Mandatory Advisor meetings to review course requests and Next Step Plans for 8th grade students. Eighth grade students need to bring a completed Next Step Plan to this advisor meeting.

NEW MEXICO STATE STANDARDS

Coursework at Los Alamos High School is based on the New Mexico State Standards and the Los Alamos Public Schools Standards, and approved by the State Board of Education.

GRADUATION

Please note: In order to participate in the graduation ceremony, a student must have completed 24 required credits and must meet the Public Education Department (PED) demonstration of competency requirements, including PARCC and SBA testing. Participating in the graduation ceremony is a privilege that can be denied if the student does not follow the LAHS/LAPS codes of conduct.

GRADUATION CREDIT

Graduation credit may also be earned through:

✓ dual enrollment at UNM-LA
✓ approved online courses

CREDIT FOR EARLY DISENROLLMENT

Should a parent elect to disenroll his/her student from TFA or LAHS in the final three weeks of the semester to attend another high school at the beginning of its new semester, TFA or LAHS will not grant credit for the student’s course work until the student has taken the final exam for each of his/her classes.

It is the responsibility of the student and parent to make the necessary arrangements with TFA and/or LAHS teachers and the new school personnel to complete semester exams for each class before a final transcript reflecting the semester’s credit can be issued to the new school’s registrar. Students leaving prior to the final three weeks of the semester will carry their current grade for each course to their new school.

CREDIT RECOVERY AND GRADE RECOVERY @ Los Alamos High School

Credit Recovery

If the previously failed class is currently being offered, re-enrollment into a regular, co-taught, or self-contained classroom should always be considered first.
Rigorous Common Core curriculum, delivered through Edgenuity, is customized to be closely aligned with LAHS curriculum and necessitates independent reading comprehension abilities. Alternative Learning Lab (A.L.L., room A204) teachers provide a supportive learning environment, ensure academic integrity, and assist students with content and tools for success.

Information and Requirements (exceptions require administrative approval):

- The student must have earned a 40% or higher overall grade in the failed class and had 10 or fewer absences for the semester (20 or fewer in 4th period).
- Students with an IEP cannot automatically be placed into a Credit Recovery class. Placement is an IEP decision. Factors that must be considered include literacy levels and whether all accommodations and supports can be provided in the Credit Recovery setting. See the Special Education contact person for a complete list of recommendations.
- Credit Recovery students are scheduled into one class period in the A.L.L., are approved for only one Credit Recovery class at a time and are limited to 4 semesters of credit.
- Students have 18 weeks from their start date to complete the course or will re-enroll into the classroom to take the course again. Requests for extensions for students who are close, but do not meet the deadline, must be approved by administration.
- Credit Recovery classes are prescriptive in nature (i.e.: provide the opportunity to test out of already-mastered concepts). Students who wish to be considered for collegiate athletic eligibility or scholarships should note that the NCAA Clearinghouse does not accept prescriptive coursework.

To proceed with this option, the student must:
1. meet with his/her counselor for a review of the guidelines and a transcript analysis;
2. ensure the completion of the student and parent sections of the enrollment form/contract (available in the A.L.L. or guidance office);
3. meet with the Administrator for Credit Recovery, Mr. Payne, to obtain a signature for final approval; and,
4. bring the completed enrollment form to the A.L.L. to be enrolled in the class.

Grade Recovery

Ideal NM, the “statewide eLearning program of the New Mexico Public Education Department,” is an option for students who have already taken the class, but don’t meet the requirements for Credit Recovery (e.g.: earned <40% or >60%). Courses are not accessible to school staff, so students take these independently and are accountable to the online instructor.

To proceed with this option, a student must:
1. meet with his/her counselor or case manager;
2. get approval from Mr. Payne;
3. pay the bookkeeper ($225 for non-AP, $275 for AP per semester); and,
4. see the Registrar, Mrs. Scott, to get enrolled.

ADVANCED PLACEMENT (AP)

AP provides students with an opportunity for learning that goes beyond just facts and figures. The rich course material, classroom discussions and demanding assignments typical of AP courses will help students develop the knowledge and critical thinking skills expected of college students. What’s more, by participating in AP, students have the opportunity to earn college credit and to stand out in the college admission process.

Advanced Placement (AP) courses are college-level courses offered in high school. Students are required to take and pay for the AP exam at the end of the course. If successful, they may earn college credit. Because of the stringent time commitment expected in AP coursework, students involved in several activities should carefully consider the number of AP courses for which they register. LAHS currently offers 25 AP Courses.
AP students take part in the most widely accepted college-level academic program available to high school students. Hard work helps prepare for the AP Exam, and it will ultimately build the confidence to succeed in rigorous courses in college.

**Helpful suggestions/expectations:**

- Designate specific areas in your home for schoolwork and studying.
- Prioritize classes, activities and work commitments.
- Recommend that your child form a study group.
- Review high school graduation requirements.
- AP courses require self-discipline and a strong work ethic.
- AP courses may require an average of 2 hours of additional homework per night per AP course.
- AP courses require that the student take and pay for the AP exam.

**AP COURSES OFFERED AT LAHS:**

- AP Biology  (page 35)
- AP Calculus AB  (page 32)
- AP Calculus BC  (page 32)
- AP Computer Science  (page 10)
- AP Chemistry  (page 35)
- AP English Language and Composition 11  (page 17)
- AP English Literature & Composition 12  (page 28)
- AP Environmental Science  (page 36)
- AP European History  (page 38)
- AP French  (page 27)
- AP German  (page 29)
- AP Human Geography  (page 39)
- AP Latin  (page 26)
- AP Macroeconomics  (page 38)
- AP Microeconomics  (page 37)
- AP Music Theory  (page 24)
- AP Physics 1, 2 and C  (page 34)
- AP Psychology  (page 38)
- AP Spanish  (page 28)
- AP Statistics  (page 32)
- AP Studio Art  (page 20)
- AP US Government and Politics  (page 38)
- AP US History  (page 37)

**FINE ARTS CREDITS**

Students must complete .5 credit in Fine Arts. Please note that students with no foreign language credit planning to attend NMSU may substitute one year of Visual or Performing Art credit. Many schools, including University of California schools, require one full year of a Visual or Performing Art (two semester of the same subject; however, they do not have to be completed within the same school year). The following courses fulfill this requirement:

- Digital Arts
- 2-D/3-D Design
- Ceramics
- Fine Arts
- Studio Art
- Photography
- Dance
- Color Guard
- Stagecraft
- Lighting, Set and Sound Design Acting
- Theatre
- Band
- Wind Ensemble
- Jazz Ensemble
- Beginning Guitar
- Music Theory
- Choir
- Digital Music & Audio Production
- Orchestra
- Symphonic Strings

**TECHNOLOGY CREDITS**

School Board Policy 5127 requires students complete .5 credit in “technology.” The following courses fulfill this requirement:

- Advanced Engineering Design
- Advanced Photography
- Advanced Programming
- AP Computer Science
- Computer Game Design
- Computer Maintenance
- Computer Science
- Computer Graphics & Modeling
- Desktop Publishing
- Digital Art
- Digital Music & Audio Production
- Digital Photography
- Electronics
- Information Management
- Introduction to Architectural Design
- Introduction to Engineering Design
- Robotics 1 & 2
- Theatrical Design 2
- Video Productions
- Web Page Design
- Yearbook 1, 2 or 3

**PRACTICAL ARTS CREDITS**

Students must also complete .5 credit in a Practical Art. All courses listed in the College and Careers Technology Department, the Fine Arts Department and the Special Programs Department fulfill the practical arts requirement. Yearbook, an English elective, also fulfills the practical arts requirement.
Career Clusters are groupings of similar skills and common themes. Employment is available at various educational levels.

Career Clusters help students, parents, employers, and educators understand how curriculum relates to the career opportunities.

U.S. Department of Education has identified 16 Career Clusters. These and the Career Pathways, which define the specific types of career opportunities within each Cluster, are listed outside the circle. New Mexico has compressed the 16 into seven priorities based on economic development and job projections:

- Communication and Information Systems
- Engineering Construction & Manufacturing
- Health and Biosciences
- Energy and Environmental Technology
- Business Services
- Arts and Entertainment
- Hospitality and Tourism

DUAL CREDIT OPPORTUNITIES

Dual Credit Opportunities at Los Alamos High School

1. Students who are enrolled in Marketing: An Introduction in the Fall and will complete Marketing: An Introduction in the Spring -- Business credit at UNM-LA (counts toward a certificate in marketing)
2. Students who are enrolled in Marketing and Business Ownership in the Fall and will complete Marketing and Business Ownership in the Spring -- Business credit at UNM-LA
3. Students who are enrolled in Marketing, Management & Legal Environment of Business in the Fall and will complete Marketing, Management & Legal Environment of Business in the Spring -- Business credit at UNM-LA
4. Students who have completed Desktop Publishing with a C or better and will complete Information Management with a C or better in the Spring -- Computer credit at UNM-LA (counts toward a certificate in marketing)
5. Students who have completed Robotics 1 with a C or better and complete Robotics 2 in the Spring -- Electronics credit at UNM-LA (counts toward a certificate in electromechanical technologies)
6. Students who are enrolled in Humanities in the Fall and will complete Humanities in the Spring -- English credit at UNM-LA

Dual Credit Opportunities at UNM/LA

Eligible students may also earn dual credit by enrolling for elective courses that are offered at the UNM-LA campus with approval.

Application Process for dual credit enrollment:

1. Visit with your counselor at LAHS to determine those courses at UNM-LA that will meet your high school requirements and to discuss deadlines, which are typically earlier than regular registration at UNM-LA. LAHS approval is required before registering for the course.
2. Get a copy of your LAHS transcript from the registrar. Also get a copy of the dual credit application packet from your LAHS counselor or from the Registration Desk in Building #1 at UNM-LA. You may also download a copy of the application packet from the UNM-LA website.
3. Submit completed application with your transcript to: Kathryn Vigil, Building 1, Room 106, UNM-LA.
4. Cost: All tuition costs are covered by UNM-LA. All book costs are covered by Los Alamos Public Schools. Students are responsible for course-specific fees.
LAECCA supports students in early access to post-secondary training allowing them to graduate from high school with not only a diploma but also college credentials and credits. LAECCA emphasizes three major areas of post-secondary study: electro-mechanical technologies, business, and health. LAECCA students can earn college certifications and substantial credits towards an associates degree. The University of New Mexico-Los Alamos is a valued partner in the development and implementation of this initiative.

**“Students considering LAECCA should request one of these dual credit classes for 9th grade.”**

If you are interested in electro-mechanical technologies, you should select robotics 1 & 2 next year. If you are interested in business, you should select desktop publishing and information management. Taking these classes in 9th grade will put you on-track to earn a college certificate and allow further dual-credit opportunities beyond your freshman year.

For additional information on the Los Alamos High School’s early college program, contact Cristin Haake 663-2520 or Brent G. Collom 663-2584.

LAECCA is looking for Los Alamos High School students who have potential to do college coursework or technical certifications before high school graduation. The goal of the LAECCA is to create a seamless experience for students between high school and their post-secondary goals by providing a focus on a future career.

Applications to Los Alamos Early College and Career Academy will be accepted in the fall of 2018. Successful applicants will be students with strong attendance, motivation, and drive.

**SCHOOL OF CHOICE (Grades 10-12)**

School of Choice (SOC) offers an alternative track for achieving academic credit in English, social studies, science, and math. The approach to these subjects is project-oriented and learning-style based. Students applying for admission to SOC must first register for regular classes at LAHS. Candidates must obtain an application from their counselors and be interviewed. SOC students are required to maintain a minimum “C” average and abide by an attendance and academic contract to remain in the program.

**UNSUPERVISED STUDY PERIODS**

Freshmen and sophomores are required to register for 7 classes. Juniors are allowed a maximum of 1 unsupervised study period per semester; seniors are allowed a maximum of 2 unsupervised study periods per semester if they meet GPA and attendance requirements and if they are on track to graduate. The student’s parent or guardian must sign an “Unsupervised Study Contract.” 

Students taking an Unsupervised Study Period are required to be off campus during that period.

**“Zzz” SLEEP PERIOD FOR STUDENT SLEEP**

LAHS and TFA are exploring options to provide flexibility within our current bell schedule to allow extra time for student sleep. In the 18-19 school year, students can select a “Zzz” period at the beginning of the day to allow for a later wake-up time. The “Zzz” period will occupy a morning time slot from 7:50am - 8:30am, and will be followed by a class that meets DAILY from 8:40am - 9:25 am. Students selecting a “Zzz” period will need to make their own transportation arrangements and may not be on campus during the designated “Zzz” time. All students in grades 9-12 are eligible for a “Zzz” period, with the understanding that it takes the place of a credit-bearing class (.5 credits per semester). Students selecting a “Zzz” period are still required to meet LAHS & state graduation requirements, including earning 24 credits for graduation. There are many ways to meet the graduation requirements and still take advantage of the “Zzz” Sleep Period. For more information, speak with your advisor or guidance counselor.
CO-CURRICULAR ACTIVITIES (6145.2)

These are activities that are extensions of classroom instruction required by law. See Educational Standards for New Mexico Schools or local board policy. Not more than five hours per week or 20 hours per month may be required for practice, meetings, events or performances outside the regular instructional day. Co-Curricular activities are required as part of the course work if a student is to receive credit for the course. Co-Curricular activities may not require a student to be absent from class other than for performances (School Reform Act of 1986). Examples: Vocational or fine arts club activities and/or field trips.

A Note on College Entrance Requirements

Many colleges have entrance requirements, which exceed LAHS graduation requirements. Some of the more selective colleges ask for four years of English, three years of science, four years of math and three years of a foreign language. The most selective colleges require very strong academic preparation and may expect students to take AP courses and AP exams whenever possible. Students are responsible for verifying entrance requirements for specific schools or state university systems to make sure that they will not have deficiencies on their transcript.

SEX EDUCATION

Parents of secondary students shall be notified during class scheduling via the course description in the course catalog bulletin that a course addresses sexuality issues, family planning, population control, or reproductive health by use of the following statement: "Course material in this class may contain readings or discussions in which topics of a sexual nature are presented."

Courses at Los Alamos High School affected by this policy include: Health, Child Development, and Life Smarts. According to School Board Policy 6173R, an alternate assignment is available for certain portions of the required health courses for moral, conscientious, or religious objections.

NCAA Requirements

Students planning to play Intercollegiate sports at a NCAA Division I or II school after high school should plan their course selections carefully.

CORE COURSES

Both NCAA Division I and Division II require 16 core courses. NCAA Division I also requires 10 core courses to be completed prior to the 7th semester (7 of the 10 must be a combination of English, math or natural/physical science that meet the distribution requirement below). These 10 courses become “locked in” at the start of the 7th semester and cannot be retaken for grade improvement.

TEST SCORES (ACT/SAT)

Division I uses a sliding scale to match test scores and core grade-point averages (GPA). Division II requires a minimum SAT score of 820 or an ACT sum score of 68. The SAT score used for NCAA purposes includes only the critical reading and math sections. The writing section of the SAT is not used. The ACT score used for NCAA purposes is a sum of the following four sections: English, mathematics, reading and science. When you register for the SAT or ACT, use the NCAA Eligibility Center Code of 9999 to ensure all SAT and ACT scores are reported directly to the NCAA Eligibility Center from the testing agency. Test scores that appear on transcripts will not be used.
GRADE POINT AVERAGE (GPA)
Be sure to look at your high school’s List of NCAA Courses on the NCAA Eligibility Center’s website (www.eligibilitycenter.org). Only courses that appear on your school’s List of NCAA Courses will be used in the calculation of the core GPA. Use the list as a guide.

Division I students enrolling full time before August 1, 2016 use Sliding Scale A to determine eligibility to receive athletics aid, practice and competition during the first year. Division I GPA required to receive athletics aid and practice on or after August 1, 2016 is 2.0000 (corresponding test-score requirements are listed on Sliding Scale B). Division I GPA required to be eligible for competition on or after August 1, 2016, is 2.3000 (corresponding test-score requirements are listed on Sliding Scale B).

The Division II GPA requirement is a minimum of 2.000. Remember, the NCAA GPA is calculated using NCAA core courses only.

National Association of Intercollegiate Athletes (NAIA) Guide for the College Bound Student-Athlete (www.NAIA.org)

NAIA—Entering Freshman Eligibility Rules
1. Must be a graduate of an accredited high school or be accepted as a regular student in good standing as defined by the enrolling institution; and
2. Meet two of the three following requirements:
   a. Achieve a minimum of 18 on the Enhanced ACT or 860 on the SAT.
   b. Achieve a minimum overall high school grade point average of 2.00 on a 4.0 scale.
   c. Graduate in the top half of your high school class.

If as an entering freshman you do not meet at least two of the three standards, you cannot participate in athletics for the first full year of attendance.

You must register with the NAIA clearinghouse at http://www.playnaia.org/

For more information please see your counselor and the following sites:
http://web3.ncaa.org/ECWR2/NCAA_EMS/NCAA_EMS.html#
BUSINESS

NOTE: For ALL marketing classes: DECA is the mandatory co-curricular organization providing the means for students to apply the skills and knowledge they acquire in class. Students are required to participate in fundraisers and the learning lab as a part of the class and the club. Note: Junior students who are employed a minimum of 10 hours per week while enrolled in a Marketing course may receive an additional credit for working the entire school year and being concurrently enrolled in Junior Marketing/Business Co-op (work internship), course EL30612. Seniors may sign up for Sr. Mktg/Bus Co-op EL40712 or EL40812 (work internship) for 1 or 2 credits. DECA Dues: $40 membership dues are payable to Los Alamos Public Schools for DECA during the first two weeks of school.

**TE10111 DESKTOP PUBLISHING**

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<th>SEMESTER</th>
<th>.5 CREDIT</th>
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◆ UNM Dual Credit: CT102 combined with TE10211

Students will focus on Microsoft Word (in-depth) and PowerPoint. MS Office software has many new time saving features, sharing, and connectivity options. Type manipulation and formatting of text and graphics with the reader in mind will be taught. The student will learn some of the finite details that will separate his/her papers and presentations from the average student and provide job skills to produce professionally formatted documents.

**TE10211 INFORMATION MANAGEMENT**

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◆ UNM Dual Credit: CT102 combined with TE10111

The use of spreadsheets and databases is prevalent in almost every occupation in today’s society. This class will help students master the concepts and applications associated with Excel spreadsheets and Access databases. Students will work with a variety of mathematical functions, formulas, 3-D formulas, relative and absolute references in an Excel document and then chart data and link or embed data and charts to create professional documents. Students will also learn to design a database for specific purposes and experience the procedures for importing and exporting data from/to another source, designing forms for input into a database, and how to manipulate the design of output. The merging of data and file sharing is also covered. This course is a must for all students as they need to be able to effectively use this type of software for many higher education and work-related projects.

**EL21311 BUSINESS: MARKETING AND SOCIAL MEDIA**

| SEMESTER | .5 CREDIT | No Fee |

Prerequisite: 10th - 12th Grade

This course covers the use of various social media tools and web page design use in business. Topics include e-mail marketing, affiliate marketing, Twitter, Facebook, Snapchat, and other social media tools. Students will gain an understanding of how each is used from a business standpoint.

**EL20111 BUSINESS & PERSONAL LAW**

| SEMESTER | .5 CREDIT | No Fee |

Prerequisite: 10th - 12th Grade

This is a survey course covering the principles of business, personal law and the American legal system. Additional areas covered will include criminal, civil, contract, and family law. Students will receive first-hand knowledge through mock trials and a criminal trial field trip (funds and cases permitting). *Offered in odd numbered graduation years. Available in 18-19 School Year.

**EL21312 BUSINESS: MARKETING INTRODUCTION**

| YEAR | 1 CREDIT | $40 * |

Prerequisite: 10th - 12th Grade – UNM Dual Credit: BSTC 193

This course is designed as a college prep course in the field of business, marketing, and economics. Areas of instruction include an introduction to business and marketing, economic principles, social media, and customer service. Topics include psychology’s role in marketing promotion, and business ethics, as well as job application and employability skills. Students may participate in ongoing computer simulations in retailing, hospitality and tourism, finance, stock market trading, sports marketing, and promotion. Students develop organizational and leadership abilities through participation in DECA, an Association of Marketing Students, our national co-curricular organization.

* $40 DECA Fee
EL31412 BUSINESS ENTREPRENEURSHIP YEAR 1 CREDIT $40 *
Prerequisite: 11th - 12th Grade -- UNM Dual Credit: BSTC 193
A dynamic course in how to set up your own entrepreneurial business. Students learn different ownership models, how to write business plans, and how to use the web and social media to further the success of the business. Also covered are the financial aspects of business including the daily accounting and financial statements required. * $40 DECA Fee
NOTE: Offered in odd numbered graduation years. Available in 18-19 School Year.

EL31512 BUSINESS: MANAGEMENT & LAW YEAR 1 CREDIT $40 *
Prerequisite: 11th - 12th Grade, Recommended that student have a previous Marketing or Law class Concurrent: UNM-LA dual enrollment credit available and Junior or Senior Marketing/Business Co-Op available. UNM Dual Credit: BSTC 293
Designed for the student who wants to develop management knowledge or a better understanding of laws affecting business contracts, employment, consumers, and international business. * $40 DECA Fee
NOTE: Offered in even numbered graduation years. Available in 19-20 School Year.

EL30612 JUNIOR MARKETING/BUSINESS CO-OP (WORK INTERNSHIP) YEAR 1 CREDIT No Fee
Prerequisite: 11th Grade, Concurrent enrollment in Marketing. Students must maintain a 2.0 GPA or risk being dropped from co-op.
Students receive on-the-job training as arranged by the employer, the instructor, and the student in a marketing or business-related job. Students are expected to maintain cooperative working relationships with training station supervisors and personnel. Accurate and up-to-date work hours and assignments must be kept in student’s in-class co-op folder. Students must maintain a grade of “C” in the marketing-related class. Work hours must average from 8 to 14 hours per week during the school year. Jobs must be with retail and/or service businesses in the Los Alamos/White Rock area unless permission is obtained from the instructor. LANL does not accept juniors. Students must participate in all classes and DECA activities.

EL40712 SENIOR MARKETING/BUSINESS CO-OP (WORK INTERNSHIP) YEAR 1 CREDIT* No Fee
EL40812 SENIOR MARKETING/BUSINESS CO-OP (WORK INTERNSHIP) YEAR 2 CREDITS* No Fee
Prerequisite: 12th Grade, Concurrent enrollment in Marketing. Students must have a minimum 2.0 GPA to be eligible for co-op and 3.0 GPA. for LANL. -- * 1 credit for working 8-14 hours per week, 2 credits for working 15+ hours per week.
Refer to the in-depth description given for Marketing Junior Co-op. Accurate and up-to-date work hours and assignments must be kept in student’s in-class co-op folder. Students must maintain a grade of “C” in the marketing-related class. Work hours must average from 8 to 14 hours per week for one credit and 15 to 20 hours per week for two credits during the entire school year. Students may work in town or at LANL. STUDENTS SEEKING POSITIONS AT LANL must attend the LANL presentation in January, at lunch in the designated area and meet all application deadlines. Students obtaining employment with LANL through this opportunity must remain enrolled for the duration of their LANL employment in high school. Accurate and up-to-date work hours and assignments must be kept in student’s in-class co-op folder. Students must maintain a grade of “C” in the marketing-related class. Work hours must average from 8 to 14 hours per week during the school year. Jobs must be with retail and/or service businesses in the Los Alamos/White Rock area unless permission is obtained from the instructor. LANL does not accept juniors. Students must participate in all classes and DECA activities.

EL40912 TECHNICAL CO-OP YEAR 1 CREDIT* No Fee
EL41012 TECHNICAL CO-OP YEAR 2 CREDITS* No Fee
Prerequisite: 12th Grade, (Concurrent enrollment in AP Computer Science, AP Calculus, AP Chemistry, AP Biology, AP Physics, AP Environmental Science, or AP Statistics and the recommendation of the current science, math, or computer science teacher. All applicants for this co-op must have a minimum 3.0 GPA and sign a statement of understanding to be turned in at class registration.) -- * 1 credit for working 8-14 hours per week, 2 credits for working 15+ hours per week.
Students will receive high school credit while working at Los Alamos National Laboratory (LANL) or a technical position with a local business. Positions must be in a technical field. Employers will be responsible for selecting students and working with the instructor to assign tasks. Students will keep track of their wages and hours weekly and turn them into your co-op folder when asked. Responsible behavior both at school and on the job is required. Extensive modifications to a student’s schedule may be required to provide adequate time for work experience. Work hours must average 8-14 hours per week to receive 1 credit and 15 to 20 hours per week for two credits during the entire school year. Currently LANL is accepting applications from students who will be seniors next year. STUDENTS SEEKING POSITIONS AT LANL must attend the LANL presentation in January at lunch in the designated area and meet all application deadlines. Students obtaining employment with LANL through this opportunity must remain enrolled for the duration of their LANL employment in high school. LANL deadlines are FIRM and YOU MUST APPLY ONLINE BEFORE LANL’S DEADLINE.

NOTE: Offered in odd numbered graduation years. Available in 19-20 School Year.

EL31512 BUSINESS: MANAGEMENT & LAW YEAR 1 CREDIT $40 *
Prerequisite: 11th - 12th Grade, Recommended that student have a previous Marketing or Law class Concurrent: UNM-LA dual enrollment credit available and Junior or Senior Marketing/Business Co-Op available. UNM Dual Credit: BSTC 293
Designed for the student who wants to develop management knowledge or a better understanding of laws affecting business contracts, employment, consumers, and international business. * $40 DECA Fee
NOTE: Offered in even numbered graduation years. Available in 19-20 School Year.
COMPUTER SCIENCE

Computer Science Course Flow Chart

TE10511  INTRO TO COMPUTER SCIENCE  SEMESTER  .5 CREDIT  No Fee
◆ Prerequisite: none
This class is an introduction to Computer Science. Students will learn about computer systems and programming. Students begin with very simple programs and progress to more complex projects that perform calculations, play games, and work with graphics and images. This course aims to show the reality of how computers work.

TE10731  COMPUTER MAINTENANCE  YEAR  1 CREDIT  $20
◆ Prerequisite: none
Students will be introduced to computer maintenance and repair. Students will learn to assemble a computer from parts, install the operating system and other software, as well as do basic computer repairs and troubleshooting. Topics covered will include computer hardware, software, operating systems, peripherals, mobile devices, networking, and security. The course is geared towards the introductory-level, professional certification CompTIA A+ IT and Computer Technician certification.

TE10711  COMPUTER GRAPHICS & MODELING  SEMESTER  .5 CREDIT  No Fee
◆ Prerequisite: none
This course includes an introduction to basic concepts in computer graphics and modeling. Students will use Blender, a powerful, free, open-source 3D creation software for modeling, simulation, animation, game design, and more. Students will learn modeling, materials and textures, lighting, rendering, and basic animation.

TE10721  COMPUTER GAME DESIGN  SEMESTER  .5 CREDIT  No Fee
◆ Prerequisite: TE10511 Computer Science or approval by teacher
Students in this class will design a simple computer game. Topics to be covered include character and level design, animation, Newtonian physics, programming, and 2D/3D mechanics. The advanced game engine Unity will be used to create games.

TE20932  AP COMPUTER SCIENCE  YEAR  1 CREDIT  No Fee
◆ Prerequisite: 10th - 12th Grade and either Computer Science or concurrent enrollment in Pre-Calculus 1 or higher
This course follows the College Board’s AP curriculum for Computer Science. Students will learn how to program using the Java programming language. Topics include object-oriented programming, recursion, data structures and algorithms in preparation for the AP Computer Science exam. Students are required to pay for and take the AP Exam in the spring in order to earn a weighted grade.

TE31022  ADVANCED PROGRAMMING  SEMESTER  .5 CREDIT  No Fee
◆ Prerequisite: TE20932 AP Computer Science or approval by teacher
Students in this class will push their programming abilities beyond the AP Computer Science curriculum. Programming topics such as alternate languages (python, ruby, C variants, etc.), graphical interfaces, artificial intelligence, modeling, data structures, app design, and advanced algorithms will be explored.
NOTE: FCCLA is a mandatory co-curricular organization for all students taking Family and Consumer Science classes. FCCLA provides an integral part of each class by helping students develop leadership and career readiness skills. In FCCLA students will apply the skills and knowledge they acquire in Family and Consumer Science classes. Students are required to participate in activities, fundraisers, and meetings as part of the class and club. Students taking only a Level 1 class pay local dues of $5. Students taking Level 1 & 2, Level 2, Pro-start, or want the opportunity to compete will pay $30. All dues are payable to FCCLA during the first 2 weeks of class.

EL11111  BAKING 1  SEMESTER .5 CREDIT $35  ◆ An introductory course in the principles of baking with emphasis on baking ingredients and their function, measurements, and equivalents. Scratch baked goods will include, but not be limited to, quick breads, basic yeasted breads, pies, casseroles, and cookies. Food safety and sanitation skills will be learned and practiced as well as proper use and handling of kitchen utensils and equipment.

EL11211  BAKING 2  SEMESTER .5 CREDIT $35  ◆ Prerequisite: Baking 1 with a grade of B or better  This course is an extension of Baking 1 with emphasis on more advanced baking techniques which include, but are not limited to, the production of more advanced yeasted breads, laminated dough, custards, specialty sauces, merengues, pate choux, tarts, tortes, and cakes. This class will further emphasize the importance of food safety and sanitation as well as proper use and handling of kitchen utensils and equipment.

EL11311  CULINARY ARTS 1  SEMESTER .5 CREDIT $35  ◆ This course develops basic skills in food preparation and management needed in the culinary arts career pathway. Students cover food preparation, nutritional content, local food preservation, seasonal cooking, menu planning and preparation, budgeting, safety and sanitation, and food handling techniques. This course also gives students an opportunity to participate in classroom food challenges and group projects. Food laboratory work is done in a professionally equipped kitchen and focuses on all major food types.

EL11412  CULINARY ARTS 2  SEMESTER .5 CREDIT $35  ◆ Prerequisite: Culinary Arts 1 and recommendation from Culinary 1 instructor  This course builds on the skills in food preparation and management needed in the culinary arts career pathway. Building upon the skills gained in Culinary 1, Culinary 2 students will learn advanced food preparation techniques. Students will participate in on-campus catering preparation. Students will also have the opportunity to design their own restaurant, from start to finish, as well as preparing a dish from their restaurant to serve to a panel of judges.

EL21512  PROSTART 1  YEAR 1 CREDIT $35  Prerequisite: 10th - 12th Grade and Culinary Arts 1 & 2 or Culinary Arts 1 & Baking 1, with a "B" or better in each. Students must have a recommendation from Culinary Arts teacher. Student must be willing to compete at the ProStart Competitions and take the National Exam  This class builds on the skills developed in Culinary Arts 2. Job experience in the culinary field may lead to national certification by the National Restaurant Association. This class links to degree programs at Santa Fe Community College in culinary arts, CNM in bakery and culinary arts, or New Mexico State University in hotel/motel management.

EL21612  PROSTART 2  YEAR 1 CREDIT $35  Prerequisite: 10th - 12th Grade and ProStart 1  This course builds on the skills developed in ProStart 1. The National Culinary Arts certification exam will be offered for advanced employment, scholarships, and college placement. Membership in FCCLA is a required part of the class.

EL11711  CHILD DEVELOPMENT 1  SEMESTER .5 CREDIT $15  ◆ This course will develop career and parenting skills for working with families, infants, and children. Class content includes decisions about parenting, pregnancy, and development from birth through school aged children. Hands-on activities, field trips, and simulations of infant care are included. The “Aspen Buddy” program builds relationships between students and first grade children. At the Ark Day-care Center, students observe infants, toddlers, and preschool children. Students also learn skills in baby-sitting. Course material in this class may contain readings or discussions in which topics of a sexual nature are presented.
These courses build on the skills developed in Child Development 1. Students work for 8 weeks at an elementary school as teacher aides, gaining hands-on experience with children. The “Aspen Buddy” program builds relationships between students and first grade children. Planning activities and field trips with the children, learning to teach simple lessons at the elementary level, and operating a community play school are included. Course material in this class may contain readings or discussions in which topics of a sexual nature are presented.

This course is a study designed to educate students about sound money management skills and the financial planning process. Focus on managing money by learning to set financial goals, learning to save, create and live on a budget, investments, costs of insurances, setting up an emergency fund, and staying debt free. Students will learn the Dave Ramsey-Zero Debt money management system. This course will teach students about how to be smart concerning money – how to earn it and manage it wisely in order to reach their personal goals.

This class is designed to assist students in developing life skills by teaching students how to set short and long-term goals using the SMART method of goal setting. Students will learn basic skills for job hunting, developing a personal resume, and using effective job interviewing skills. Students will also be introduced to basic cooking/baking techniques, financial planning, and parenting skills, basic tax preparation, used car buying, and home rental and mortgage information. They may enter a project in the FCCLA Star Events competition. Students are expected to purchase their own project materials.

This course is a continuation of Fashion Design and Fabric Crafts 1. It builds upon skills mastered, and progresses to more sophisticated and complex projects. Students will design many of the projects that we do, with input from their instructor. More of the work done in Fabrics 2 is individualized. Students will participate in a community service project. Students will have the opportunity to participate in FCCLA competitions in Star Events. Students are expected to purchase their own project materials.

No prerequisite required for Naval Science 1 (NS 1). Any student taking Naval Science for the first time, regardless of grade level, is considered a Naval Science 1 student. While the training is along military lines, it is conducted so as to encourage initiative and individuality to develop natural gifts, to teach self-control, develop personal character, responsibility and qualities of integrity, loyalty, and dedication. Two complete years of ROTC will satisfy the PE graduation requirement.

Classroom instruction is augmented throughout the year by extra-curricular activities of community service, academic, athletic, drill and orienteering competitions, field meets, sailing, flights, visits to naval or other activities, marksmanship sports training, and physical fitness training. Electronic classroom equipment, textbooks, uniforms, and educational training aids are provided by the Navy.

Enrollment in Naval Science offers opportunities for scholarships, travel, leadership development, self-confidence, and teamwork. NJROTC is a student led organization under the guidance and mentoring of two experienced teachers certified by the Navy in this subject area.

The Senior Naval Science instructor may make up to three nominations to the U.S. Naval Academy and other nominations for college ROTC programs each year from the ranks of NJROTC cadets. This nomination allows the NJROTC cadet to compete for an appointment to the U.S. Naval Academy and
other service academies depending on application standards. Other candidates must obtain a nomination from their senator or representative.

Sports Physical -- A sports physical must be completed to participate fully in all activities. The student should be physically qualified to fully participate in a fitness program that involves push-ups, curl-ups, running, pull-ups (male) or flex arm hang (female), military drill, and field trips to various locations around the city and the state. Other extracurricular and co-curricular activities are optional. Uniforms and shoes are provided at no cost to the student.

Cadets participate in a number of outside, or extra-curricular, activities throughout the school year and during the summer months. These opportunities are designed to stimulate learning by hands-on experience and to reinforce classroom instruction. Some of these activities include:

- School and local activities such as parades, community service projects and events, academic, athletic, drill, marksmanship and orienteering events and competitions.
- Leadership training of about 1 week during the spring and summer months to include Basic Leadership Training, Leadership Academy, Sail Academy, and other Orientation Training visits.
- Orientation visits (3 to 5 days) to various naval and military bases.

Teams -- Teams are an integral part of the NJROTC program in building leadership, citizenship, and cooperation. Competitive teams participate in color guard, drill, academics, fitness, and marksmanship. Other activities include Cyber Patriot and Orienteering. Other science, technology, and engineering courses and competitive teams may be offered as cadet interest warrants. Cadets are encouraged to and may attend several leadership camps during the summer as well as marksmanship training and competitions. Students may be in NS 1, 2, 3, or 4 during any class period. Varsity letters are awarded for color guard, drill, and marksmanship.

Cadets may enroll in only one Naval Science class per school year except when enrolled in Military Fitness or Oceanography (when offered).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Year</th>
<th>Credit</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL15312</td>
<td>Naval Science 1</td>
<td>1</td>
<td>1</td>
<td>$25</td>
</tr>
<tr>
<td></td>
<td>Includes introduction to the NJROTC program; introduction to Leadership, Citizenship and the American Government; introduction to Wellness, Fitness, and First Aid to include diet, exercise and drug awareness, introduction to Geography, Orienteering, Survival and Map Reading Skills; Financial Skills and introduction to the U. S. Navy.</td>
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Year</th>
<th>Credit</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL25412</td>
<td>Naval Science 2</td>
<td>1</td>
<td>1</td>
<td>$25</td>
</tr>
<tr>
<td>Prerequisite: Naval Science 1</td>
<td>Includes ongoing instruction into Leadership; introduction to Maritime History, including the American Revolution, Civil War, the rise of the U. S. to world power status, World Wars 1 and 2, the Cold War Era and the 1990s and Beyond; introduction to Nautical Sciences to include Maritime Geography, Oceanography, Meteorology, Astronomy, and Physical Sciences.</td>
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Year</th>
<th>Credit</th>
<th>Fee</th>
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<tbody>
<tr>
<td>EL35512</td>
<td>Naval Science 3</td>
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<td>1</td>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Year</th>
<th>Credit</th>
<th>Fee</th>
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<tbody>
<tr>
<td>EL45612</td>
<td>Naval Science 4</td>
<td>1</td>
<td>1</td>
<td>$25</td>
</tr>
<tr>
<td>Prerequisite: Naval Science 3</td>
<td>Includes instruction in theoretical and applied aspects of leadership, training, and evaluation of performance. Students will become aware of the techniques used to create motivation, develop goals and activities for a work group, and the proper ways to set a leadership example. Students are provided access to ACT/SAT prep courses, guidance in selecting a college and pursuing available scholarships, and mentoring in establishing long range life goals.</td>
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester</th>
<th>Credit</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL19711</td>
<td>High Intensity Military Fitness</td>
<td>.5</td>
<td>1</td>
<td>$25</td>
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<tr>
<td>This course may be offered for students to enhance individual fitness levels and optimize physical and mental readiness and resiliency. This comprehensive strength and conditioning program takes into consideration the physical demands of non-sport, competitive activities to optimize physical performance. Program emphasis is on key components with relation to build superior speed, power, strength endurance and overall fitness while reducing the likelihood of injury. This course includes instruction on nutrition, eating to be healthy, and the role of nutrition in physical performance of competitive and recreational fitness activities.</td>
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</table>
The engineering process will be emphasized and creative thinking is a must. This course uses robotic applications to solve a variety of engineering challenges and competitions, using electrical and mechanical systems. Students design, build, and program various robotic devices, using the engineering design process to refine their creations. Scientific and engineering principles, as well as creative use of sensors and programming, will be emphasized. Students will also have the opportunity to join the FIRST Robotics FRC Team (FIRST Robotics Competition). Dubbed a “varsity sport of the mind”, FRC combines the excitement of sport with the rigors of science and technology. The team will design, build and program a robot to perform prescribed tasks against a field of competitors. It’s as close to “real world” engineering as a student can get. The team will compete in regional and national competitions.

This series of courses builds on the skills developed in the Video Productions course that precedes it. Advanced non-linear digital editing will be introduced. Senior video included as one of the opportunities in video production. Hands-on practice will take place with digital camcorders. All editing is non-linear digital and will take place on state-of-the-art computers. Students work on their own and in small groups to plan and execute productions. Written and taped assignments are to be completed both in and out of the classroom setting. A variety of promotional and instructional programs will be produced for LAHS student organizations.

This semester-length course is an introduction to the study of the oceans. Students will investigate the history of oceanography, geology of the seafloor and plate tectonics, properties of seawater, ocean circulation (wind and waves), life in the ocean, freedom of navigation, economical benefits and the effect of humans on the ocean environment. This course is for anyone interested in the study of the biological and physical aspects of the sea and the technology used to study them.

### TECHNOLOGY

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester</th>
<th>Credit</th>
<th>Fee</th>
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</thead>
<tbody>
<tr>
<td>FT20611</td>
<td>VIDEO PRODUCTIONS 1</td>
<td></td>
<td>.5 CREDIT</td>
<td>$35</td>
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<tr>
<td>FT20711</td>
<td>VIDEO PRODUCTIONS 2</td>
<td></td>
<td>.5 CREDIT</td>
<td>$35</td>
</tr>
<tr>
<td>FT30111</td>
<td>VIDEO PRODUCTIONS 3</td>
<td></td>
<td>.5 CREDIT</td>
<td>$35</td>
</tr>
<tr>
<td>FT30211</td>
<td>VIDEO PRODUCTIONS 4</td>
<td></td>
<td>.5 CREDIT</td>
<td>$35</td>
</tr>
</tbody>
</table>

**Prerequisite: 10th - 12th Grade**

This course introduces students to current video production techniques that can be applied to a variety of disciplines throughout their careers. Units of instruction include basic communication, function and theory of the video camera, pre-production (treatment, scripting & storyboarding), and production & post-production techniques. Students will receive information concerning occupational opportunities in video production. Hands-on practice will take place with digital camcorders. All editing is non-linear digital and will take place on state-of-the-art computers. Students work on their own and in small groups to plan and execute productions. Written and taped assignments are to be completed both in and out of the classroom setting. A variety of promotional and instructional programs will be produced for LAHS student organizations.

**Prerequisite: 10th - 12th Grade and Video Productions 1, 2, 3 respectively**

This course builds upon the skills developed in Consumer Auto Mechanics 1. It is designed for those who are seriously interested in honing their skills in advanced auto mechanics. Emphasis will be on performing mechanical diagnostics and conducting advanced repairs as well as conducting mechanical and body fabrication.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester</th>
<th>Credit</th>
<th>Fee</th>
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</thead>
<tbody>
<tr>
<td>TE11411</td>
<td>ROBOTICS 1</td>
<td></td>
<td>.5 CREDIT</td>
<td>$25</td>
</tr>
<tr>
<td>TE11511</td>
<td>ROBOTICS 2</td>
<td></td>
<td>.5 CREDIT</td>
<td>$25</td>
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</tbody>
</table>

**Prerequisite: Robotics 1 and permission of instructor. -- UNM Dual Credit: ELCT 293**

This course is for students who want to learn about the basic requirements necessary to care for their automobile. This course covers shop safety practices, automotive tools and equipment, various automotive systems, and consumer knowledge of the industry. Basic lab exercises may be done on student vehicles; however, students are not required to have an automobile to take the course. Due to the nature of the course, all assignments are expected to be completed during class time. The lab is used as a supplement to the course work.
This project-based, year-long course is designed for juniors and seniors who are planning on going into the automotive or engineering fields. It would prep students for ASE (Automotive Service Excellence) certification courses and/or pre-engineering courses. Students in Advanced Auto will be addressing the following skills: advanced diagnostics and repairs, engine building and/or rebuilding, advanced sheet metal fabrication, entry-level welding skills, and advanced paint and body work.

**TE11611 INTRO TO ENGINEERING DESIGN**  
**SEMESTER** .5 **CREDIT**  
**$25**  
◆ This introductory course is focused upon the basic skills and knowledge of drafting as the universal language required for engineering design. Students will learn and apply sketching, geometric construction, multi-view drawings, dimensioning, sectional views, and pictorials. Scientific thinking and the engineering design process will be emphasized. Students will design, construct, and test various engineering challenges. CAD software will be introduced in this course.

**TE11711 ADVANCED ENGINEERING DESIGN**  
**Prerequisite: Intro to Engineering Design**  
**SEMESTER** .5 **CREDIT**  
**$25**  
◆ Students will build upon the skills learned in Intro to Engineering Design to apply the engineering design process to longer duration, more advanced engineering challenges. Students will learn and integrate a variety of electrical and mechanical systems and gain knowledge in additional areas such as advanced drive system components, CAD, and 3-D printing. This is a project based, problem-solving, hands-on course.

**TE11811 INTRO TO ARCHITECTURAL DESIGN**  
**Prerequisite: Intro to Engineering Design**  
**SEMESTER** .5 **CREDIT**  
**$25**  
◆ This introductory course includes the principles of architectural graphics and the theory and practice of construction design and technology. Students will also gain hands-on experience in studying the various architectural forces acting upon a structure. Various CAD programs will be utilized and an emphasis will be placed on environmentally energy efficient "green" sound designs.

**TE11911 ELECTRONICS**  
**SEMESTER** .5 **CREDIT**  
**No Fee**  
◆ This course covers the principles of electricity and electrical circuits. Students learn to read schematics, calculate and measure fundamental quantities, and to choose the correct components for circuits. Many analog and digital circuits are assembled and tested in this class. Students can also have the additional challenge of designing more complex digital circuits. Some homework is given. A calculator is required.

**EL12812 BUILDING TRADES 1**  
**YEAR** 1 **CREDIT**  
**No Fee**  
◆ The building trades program offers students a broad array of occupation skill competencies. Through the building trades program, students will receive training in carpentry, masonry, plumbing and electrical occupations. Each area taught within the building trades program has a different skill set.

**EL22812 BUILDING TRADES 2**  
**Prerequisite: Building Trades 1**  
**YEAR** 1 **CREDIT**  
**No Fee**  
◆ This course builds on the skills learned in Building Trades 1. The building trades program offers students a broad array of occupation skill competencies. Through the building trades program, students will receive training in carpentry, masonry, plumbing and electrical occupations. Each area taught within the building trades program has a different skill set.
The Los Alamos School Board and the New Mexico Public Education Departments have mandated that all Los Alamos High School graduates must be enrolled in a core English course (i.e., not an *elective) each year of high school. All core courses will have grammar, composition, research, media and reasoning components. Inclusive within each course are performance indicators addressing New Mexico Common Core Standards and Benchmarks. A foundation in English 9 will prepare students to choose either English 10 or Honors English 10 their sophomore year. After students pass their sophomore year, they may choose to take an Advanced Placement (AP) English class. Humanities can be taken in the senior year. The following is a list of required year-long English course options and semester electives:

**REQUIRED YEAR-LONG COURSES (4 Credits)**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Course Options</th>
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<tbody>
<tr>
<td>9th</td>
<td>English 9: Literature and Composition</td>
</tr>
<tr>
<td>10th</td>
<td>English 10: Literature and Composition or Honors</td>
</tr>
<tr>
<td></td>
<td>English 10: Literature and Composition</td>
</tr>
<tr>
<td>11th</td>
<td>English 11: Literature and Composition or AP</td>
</tr>
<tr>
<td></td>
<td>English Language and Composition 11</td>
</tr>
<tr>
<td>12th</td>
<td>English 12: Literature and Composition or Humanities</td>
</tr>
<tr>
<td></td>
<td>or AP English Literature and Composition 12</td>
</tr>
</tbody>
</table>

**ELECTIVES**

- Creative Writing
- Argumentation and Debate
- Yearbook
- ACT/SAT Preparation

**EN11412 ENGLISH 9: LITERATURE AND COMPOSITION**

This comprehensive course provides each student with reading experience in the major types (genres) of literature in addition to a working knowledge of standard grammar, vocabulary, and usage for compositions. Students read novels, short stories, poetry, drama, and nonfiction selections and analyze them through discussions, compositions, and presentations. Reading and writing outside of class is required. Student initiative and achievement in both classwork and homework will determine success in this course and placement at the sophomore English level.
EN21512  ENGLISH 10: LITERATURE AND COMPOSITION  ☑  YEAR  1 CREDIT  No Fee
English 10 is designed to give the student a foundation in poetry, prose, and argumentation, in addition to a continuation of the development of composition, grammar, usage, vocabulary, syntax, and speaking skills. Emphasis in the literature study will be on close reading, historical background, literary analysis, rhetorical analysis, research, and essay writing. Students will also build skills in research, media and image analysis, and critical thinking.

EN21622  HONORS ENGLISH 10: LITERATURE AND COMP  ☑  ☑  YEAR  1 CREDIT  No Fee
Prerequisite: Students registered for this course are required to read an assigned novel over the summer and complete a written assignment related to the reading. In order for the student to be considered for enrollment in this class, each student must return a mandatory contract and attend a mandatory meeting in the Spring semester. This advanced course is designed to give students an accelerated reading experience and to prepare them for potential AP course work. Prose and rhetorical analysis, including the study of poetry, novels, plays, and nonfiction texts will be studied. Students will also continue the development of composition, grammar, usage, syntax, vocabulary, and speaking skills. Emphasis in the literature study will be on close reading, historical and literary background, note-taking, formal essay writing, research, and the development of pre-AP skills. Students will focus on challenging works of literature in order to prepare them for the AP English program. This course is meant to prepare students for a college level course, and students can expect to do a considerable amount of reading and writing outside of class.

EN31712  ENGLISH 11: LITERATURE AND COMPOSITION  ☑  ☑  YEAR  1 CREDIT  No Fee
English 11: Literature and Composition offers students the opportunity to examine major literary works (e.g., short stories, novels, poetry, drama, essays). This course work will give special attention to college and career readiness, including thinking and writing within a framework of cultural diversity as well as comparative and interdisciplinary analysis. Throughout the course, the analysis, interpretation, and appreciation of the many aspects of the American experience are emphasized. The readings will be combined with grammar review, composition writing, vocabulary development, concepts of semantics, and research. The course aligns with Common Core Standards with equal emphasis on literary and informational texts. Writing instruction will extend and address the development into the three modes of writing as outlined by the CCSS and College and Career Readiness Standards: narrative, expository, and argumentative. In addition, students will develop skills in critical thinking, effective discourse, collaboration, reflection, and CCSS Language standards.

EN30432  AP ENGLISH LANGUAGE & COMP 11  ☑  ☑  ☑  YEAR  1 CREDIT  No Fee
Prerequisite: AP students are expected to complete a reading and writing assignment prior to the first day of class. In order for the student to be considered for enrollment in this class, each student must return a mandatory contract and attend a mandatory meeting in the Spring semester. Students who wish to take this course must possess strong writing skills and a willingness to work at the college level. AP Language and Composition 11 is a college level writing course that engages students in becoming skilled writers who compose for a variety of purposes. The course requires students to write in several genres, such as expository, argumentative, analytical, compare and contrast, and the research paper. Students will also become skilled readers of prose written in a variety of disciplines and rhetorical contexts within the framework of American literary history. This is a college level course, and students can expect to do a considerable amount of reading and writing outside of class. Students are required to pay for and take the AP Exam in the spring in order to earn a weighted grade.

EN30512  HUMANITIES  ☑  ☑  ☑  ☑  YEAR  2 CREDITS  No Fee
Prerequisite: 12th Grade – UNM Dual Credit: ENG 150. In order for the student to be considered for enrollment in this class, each student must return a mandatory contract and attend a mandatory meeting in the Spring semester. This two-block, broad-based course, covers topics such as religion, ethics, semantics, and culture. A practical goal is to prepare students for active engagement in the open discussion of critical ideas. The course will be thematic with a yearly question, e.g., status of the contemporary society, what it means to be human. Emphasis is upon class participation, critical reading, thinking, and writing. Some of this material may be controversial and student maturity is essential. The philosophy study requires good reading skills. This course covers standards required for a full year’s English credit for Grade 12 and, because it meets every day, also fulfills the requirement for an elective credit. This is a college level course, and students can expect to do a considerable amount of reading and writing outside of class. Students receive 2 LAHS credits for this class that are factored into the student’s GPA.

EN41812  ENGLISH 12: LITERATURE AND COMPOSITION  ☑  ☑  ☑  YEAR  1 CREDIT  No Fee
English 12: Literature and Composition offers a survey of world literature (e.g., classical, European, Asian, Latin American, African, and American works). Course content includes prose, non fiction, fiction, drama, and poetry. Students will expand analytical, composition, reading comprehension, speaking, listening, vocabulary and research skills, and proficiency in grammar. Students will examine the endurance of multicultural works and how the writings are connected to the enduring human values and a variety of literary traditions. This course work will give special attention to college and career readiness, including thinking and writing within a framework of cultural diversity as well as comparative and interdisciplinary analysis. Students will prepare and complete a senior
EN41332 AP ENGLISH LITERATURE & COMP 12 ●●● YEAR 1 CREDIT No Fee
Prerequisite: Students registered for this course are required to read an assigned novel over the summer and complete a written assignment related to the reading. Students will be issued a contract of expectations to be signed by the student and the parents no later than the end of spring semester. The contract is mandatory for every student registered for AP Literature in order for them to be considered for a seat in the class.
This accelerated course offers intensive study of major writers of world literature from ancient civilizations to contemporary times. Students will be required to do in-depth analysis of literature from every genre and will be expected to share and present their analysis to the class. Analytical and argumentative essays and specific preparation for the AP Literature and Composition examination occur throughout the year. Writing assignments will comprise of in-class timed essays and extensive papers that require research and the reading of literary criticism. This is a college level course and students can expect to do a considerable amount of reading and writing outside of class. Students are required to pay for and take the AP Exam in the spring in order to earn a weighted grade.

THE FOLLOWING COURSES ARE ELECTIVES AND DO NOT COUNT AS AN ENGLISH CREDIT REQUIRED FOR GRADUATION.

EL12811 CREATIVE WRITING ● SEMESTER .5 CREDIT No Fee
◆ This course offers students the opportunity to develop and practice the art of writing creatively with four goals during the semester: 1. produce a publication quality manuscript that will include poetry, creative nonfiction, fiction, and a one-act play, 2. write and perform group and individual poetry 3. write and produce the staged reading of a one-act play, and 4. create a publication quality, illustrated book based on an original short poem, fable, myth, or fairy tale. Students should expect a daily focus on journal writing, drafting, editing, and presenting their original literary works of art.

EL22911 ACT/SAT INTENSIVE PREPARATION ● SEMESTER .5 CREDIT No Fee
Prerequisite: 10th - 12th Grade and students must be enrolled in Algebra 2 or a higher level math course.
This is a college preparatory class designed to prepare the motivated student for the SAT and ACT college entrance exams. Students will receive preparation focused on intensive grammar, writing, and elementary to intermediate algebra, geometry, and trigonometry. Throughout the semester, students will concentrate on intensive vocabulary development. The class will also cover test taking strategies and college preparation. The student will use SAT/ACT software. In addition, the students will take numerous SAT and ACT practice tests to minimize test anxiety, develop familiarity, and build confidence. Students taking this class are encouraged to take the ACT or SAT at the end of the semester.

TE22012 YEARBOOK 1 ●●● YEAR 1 CREDIT No Fee
TE22112 YEARBOOK 2 ●●● YEAR 1 CREDIT No Fee
TE22212 YEARBOOK 3 ●●● YEAR 1 CREDIT No Fee
Prerequisite: 10th - 12th Grade Completion/concurrent enrollment in 10th grade English, permission from the instructor, and recommendation of current English teacher.
Students learn journalistic and graphic techniques as well as sound business practices while producing the school’s yearbook. Specific areas covered include copy and headline writing, layout and design preparation, word processing, desktop publishing, picture selection, photography, advertising, and public relations. This course requires a considerable amount of time outside of class. Students must obtain an application for this course from the yearbook adviser and apply in January. Those students who are accepted will be notified of the instructor’s decision before course selection begins. These courses build upon skills developed in previous Yearbook courses. Yearbook courses may not be used to meet NCAA Division I & II core English requirements.
FINE ARTS
Department Chair: Jason Rutledge, 663-2611, j.rutledge@laschools.net

VISUAL ART

FT10111 DIGITAL ART 1 ◆ SEMESTER .5 CREDIT $25
◆ This studio art course examines the basic technical skills required for all art and design disciplines by using the computer as the primary tool for creation. Students will explore the foundations of art making including the elements (line, space, shape, form/volume, texture, motion, value, color) and the principles (unity, variety, balance, rhythm, emphasis, proportion and scale) of design. Emphasis will be on working with both vector and raster software such as Adobe Illustrator and Photoshop. Students will study visual vocabulary and learn to voice personal opinions about art and design. They will learn to give and accept constructive criticism and develop self reflective skills through individual and group art critiques. Art historical moments will also be studied as they relate to student projects.

FT10211 DIGITAL ART 2 ◆ Prerequisite: Digital Art 1 SEMESTER .5 CREDIT $25
◆ This studio art course builds on the basic technical computer-based skills established in Digital Art I. The course will survey the many different aspects of digital media. Students will explore career opportunities within the fields of commercial art, entertainment, technology, invention, and more. Students will work towards mastery in the fundamental concepts and the elements and principles of design. They will continue to give and accept constructive criticism and develop self reflective skills through individual and group art critiques. Art historical movements will also be studied as they relate to student projects.

FA10111 2-D/3-D DESIGN ◆ Prerequisite: Fine Arts 1 or Digital Art 1 or 2D/3D Design SEMESTER .5 CREDIT $25
◆ This is an introductory studio arts and crafts course that offers an introduction to basic design elements and principles, and their applications on the two-dimensional surface and three-dimensional form. Students will develop a range of basic art skills, depending on majority interest, and may use a variety of medium including but not limited to: plaster, wire, paper, recycled materials and fabric. Students will find creative solutions for the different types of projects which might include, but not be limited to, print making, ceramics, painting and sculpture. They will gain an understanding of the vocabulary and materials needed for concept development, through completed art piece. Students will also explore the techniques of the master artists, and professional artists throughout history and present day. They will develop vocabulary necessary to express personal opinions about art through written and oral critiques.

FA10211 CERAMICS (CLAY) ◆ Prerequisite: Fine Arts 1 or Digital Art 1 or 2D/3D Design SEMESTER .5 CREDIT $30
◆ In this course students will continue to build on the basic technical art and design skills either covered in 2D & 3D or Fine Arts 1. Students will be introduced to the many possibilities and restriction of clay. Studies will primarily include lessons in hand building methods such as pinch, coil, and slab. Students will also explore concepts in sculpture, functional art forms, and wheel throwing. Students will study visual vocabulary and learn to voice personal opinions about art and design. They will learn to give and accept constructive criticism and develop self reflective skills through individual and group art critiques. Art historical movements will also be studied as they relate to student projects.

FA10311 FINE ARTS 1 ◆ SEMESTER .5 CREDIT $25
◆ This Introductory studio art course examines the elements (line, space, shape and form/volume, texture, motion, value, color) and the principles (unity and variety, balance, rhythm and emphasis, proportion and scale) of visual art and design. Students will develop a range of basic technical skills, and use a variety of mediums including, but not limited to, pencil, charcoal, tempera and oil pastel. Students will find creative gain in understanding how to draw geometric form, the features of the face, the figure, color mixing and matching, and painting flat color. Students will also explore and analyze the techniques of the master artists, and professional artists throughout history and present day. They will develop vocabulary necessary to express personal opinions about art through written and oral critiques. Students will compile a portfolio of their work.
FA10411  FINE ARTS 2  SEMESTER  .5 CREDIT  $25  
◆ Prerequisite: Fine Arts 1  
This studio art course continues to examine the visual arts in what is known as the formalist approach, which focuses on the fundamentals of the elements and principles of design. Students master a range of technical skills to further explore the geometric form, the figure, landscape, the abstract, and use a variety of mediums, including, but not limited to, pen and ink, ink wash, colored pencil and acrylic. Students will build upon their existing knowledge of the vocabulary and materials needed for concept development, through completed art pieces. Students will continue to explore and analyze the techniques of the master artists, and professional artists throughout history and present day. They will also use their existing vocabulary to express personal opinions about art through written and oral critiques. Students will compile a portfolio of their work.

FA20511  FINE ARTS 3  SEMESTER  .5 CREDIT  $25  
Prerequisite: 10th - 12th Grade and Fine Arts 2  
This studio art course is an upper level course, and is for the serious and motivated artist. Students continue to examine the visual arts in what is known as the formalist approach. However, students play an increasing role in the development of projects. Having mastered a range of art skills, and using a variety of materials, students apply that knowledge to creative solutions for the different types of projects they produce in both 2-D and 3-D. They will use appropriate vocabulary and materials needed for concept development, through completed art piece. Students will continue to explore and analyze the techniques of the master artists, and professional artists throughout history and present day. They will also use appropriate vocabulary to express personal opinions about art through written and oral critiques. Students will compile a portfolio of their work.

FA20611  FINE ARTS 4  SEMESTER  .5 CREDIT  $25  
Prerequisite: 10th - 12th Grade and Fine Arts 3  
This is an upper level course for students who have completed Fine Arts 1, 2 and 3. Students in this class will gain a higher level of understanding for the master artists throughout history, contemporary artists and other student artists, and apply this attained knowledge to their personal artwork. Student will realize the skill levels and technical abilities necessary to pursue further training at the college, trade school or university level.

FA30712  AP STUDIO ART  YEAR  1 CREDIT  $25  
Prerequisite: 11th-12th grade, Fine Arts 1, Fine Arts 2, Fine Arts 3, Fine Arts 4 or Fine Arts 1, Fine Arts 2, Digital Arts 1, Digital Arts 2 qualifies for the Drawing portfolio or the 2D Design Portfolio; Fine Arts 1, Fine Arts 2, 2D/3D Design, Ceramics qualifies for the 3D Design Portfolio or a recommendation from two art teachers with a portfolio review of your existing artwork  
The AP Studio Art portfolio design class is a college level course, and is designed for students who are seriously interested in the practical experience of art. AP Studio Art is not based on a written exam; instead, students submit a portfolio of 24 artworks for evaluation at the end of the school year. The AP Studio Art Program consists of three portfolios — 2-D Design, 3-D Design and Drawing — corresponding to common college foundation courses. Students will be required to produce at least 4 art works during the summer before the start of the class. Students are required to submit a portfolio at the end of the year, and pay the required fee for submission.

FA10611  BEGINNING PHOTOGRAPHY  SEMESTER  .5 CREDIT  $30  
◆ Welcome to Beginning Photography. This is a semester long course that will teach you the fundamentals of photography with an emphasis on practical experience in the black and white medium. Students will examine the following subject areas: understanding the camera, fundamentals of design and composition, film exposure and printmaking. Darkroom experience will include film developing as well as enlarging and printing of student’s negatives. Specific photographic assignments will place emphasis on camera controls and visual creativity. Each student’s work will be critiqued on a regular basis. A 35mm manual style camera is required. Participants must purchase their film, paper and mat board. Instructor will not be responsible for any lost or stolen equipment.

FT10311  ADVANCED PHOTOGRAPHY  SEMESTER  .5 CREDIT  $30  
◆ Prerequisite: Minimum grade of “C” or better in Beginning Photography  
Welcome to Advanced Photography. This is a semester long course designed for advanced students who have a sound knowledge of film photography, development and print enlargement. Students will learn more advanced photography techniques in the black and white medium. Subjects will include combination printing, shooting photography with different materials and alternative process methods. Students will complete a portfolio of their best work. Each student’s work will be critiqued on a regular basis. Participants must purchase their film, paper and mat board. A 35mm manual style camera is required. Instructor will not be responsible for any lost or stolen equipment.
**FT20411 DIGITAL PHOTOGRAPHY**  
**SEMMESTER** .5 CREDIT  
$30

**Prerequisite:** Grade of “C” or better in Beginning Photography

This course explores the basics of digital camera operation, digital image capture, and the electronic output of photographic images for printed media. Students will also continue their exploration into photography as a creative medium, learning photo-editing, correction, and manipulation. Students will develop a final portfolio of their best work. A digital camera is required. Instructor will not be responsible for any lost or stolen equipment.

**DANCE**

**NOTE:** Some dance classes require an audition with the teacher of that class.

**FA10711 DANCE 1**  
**SEMMESTER** .5 CREDIT  
$20

**Prerequisite:** This course provides an introduction to classification and history of ballroom dancing, dance etiquette, and evaluation of dance performance. Included are American style waltz, tango, cha-cha, and swing. Basic footwork, technique and styling, partnering skills, and learning how to lead and follow in dance are covered. Activities include dance exercises, club dances, social dancing, choreographed routines and a final performance for the community.

**FA10811 DANCE 2**  
**SEMMESTER** .5 CREDIT  
$20

**Prerequisite: Dance 1**

This course builds upon the skills developed in Dance 1. New dances - foxtrot, mambo, east coast swing - are added to waltz, tango, cha-cha and swing, on a more advanced level. The emphasis is on improving dancers’ technical and performing skills. Choreographed routines in two of the dances will be presented in the final performance for the community. Students will have a chance to experiment with choreography.

**FA25812 DANCE PRODUCTION & PERFORMANCE 1**  
**YEAR** 1 CREDIT  
$35

**FA35912 DANCE PRODUCTION & PERFORMANCE 2**  
**YEAR** 1 CREDIT  
$35

**FA46012 DANCE PRODUCTION & PERFORMANCE 3**  
**YEAR** 1 CREDIT  
$35

**Prerequisite: 10th - 12th Grade and written permission of the instructor with audition required.**

Members are selected based upon prior experience, knowledge of dance technique, performing skills, effort, and commitment. Students will work in all four dance styles: American Smooth, American Rhythm, International Standard, and International Latin. Each couple will have a chance to work individually on choreography, in small groups, and in a formation. Activities will include dance contests, guest instruction, and performances for the community.

**DRAMA**

**FA22011 STAGECRAFT/THEATRICAL BUILDING TRADES**  
**SEMMESTER** .5 CREDIT  
$25

**Prerequisite: 10th - 12th Grade**

Students are introduced to the physical environments in which theatre takes place. Through class presentations, student projects, and practical work on productions, students learn about theatre organization, theatre spaces, basic types of scenery, common building materials, tool use and identification. The fundamentals of scenic construction are explored. Students examine and work with a variety of building materials and tools but especially with lumber. Sound structural techniques are presented. Students work on creating scenery for current productions as well as special projects. Students are introduced to the organization, procurement, and construction of stage properties.

**FA22012 STAGECRAFT/THEATRICAL BUILDING TRADES 2**  
**SEMMESTER** .5 CREDIT  
$25

**Prerequisite: Stagecraft/Theatrical Building Trades and permission of instructor**

This technical theatre course builds on skills learned in Stagecraft/Theatrical Building Trades and introduces the fly system.
FA12411 LIGHTING SET AND SOUND DESIGN

Students examine basic stage tech/design practices, the physics of light and sound, biological reactions to light, sound and sets, audio and electric instrument mechanics, basic electricity, and design objectives and practices. The process of designing elements for a production is examined. This will include theatrical environments, concert venues and other corporate event spaces. The creation of light, set and sound plots, instrument schedules, ordering for rental or purchase of proper equipment and working with hired crews, as well as proper communication with Directors, Clients and Hired crews. Students learn to use and properly maintain tools and instruments associated with Lighting, Sound and Sets. Course will include guest designers and builders making connections within the theatre community locally.

FA12412 LIGHTING SET AND SOUND DESIGN 2

Prerequisite: Stagecraft 1, Theatrical Design 1, Lighting Set and Sound Design and/or permission of instructor

This theatre course builds on skills learned in Lighting Set and Sound Design.

FA11511 INTRODUCTION TO THEATRE

This is a general course designed to acquaint the student with a basic exposure and appreciation of various forms of theatre as an art form. The course covers major historical aspects of theatre such as important periods, written works, basics of acting using games and improvisation, types of theatre, and the various jobs and duties within the theatre business. Some of the areas that are discussed include direction, script writing, introduction to technical theatre elements and performance theatre elements, as well as current theatrical practices. The coursework includes theatre craft projects, attendance of live theatre performances. This is an introductory course students will be able to use this course to filter into the various advanced disciplines.

FA11611 ACTING 1

Prerequisites: Introduction to Theatre: Freshman only by recommendation

This is a professional-caliber acting class with emphasis on character study, acting technique, breathing, vocal, and relaxation exercises. Time is devoted to movement exercise, sense memory, and to improvisation, games and storytelling. Ensemble work is encouraged and developed. Scenes and monologues focus on discovering the individual actor’s personal relationship to the role and to the text. Actors learn how to break down scripts and understand beats and actions. There are opportunities for performing scenes and monologues geared toward the individual actor’s needs and desires.

FA11711 ACTING 2

Prerequisite: Introduction to Theatre, Acting 1 and/or permission of instructor

This theater course builds on the skills learned in Acting 1.

FA31911 ADVANCED THEATRE 1

Prerequisite: 11th - 12th Grade, Acting 1,2 and/or permission of instructor

This course is designed to meet student needs in the following areas: theories of acting, design, directing, play production, musical theater, competitions, auditions, and advanced acting techniques. Specific course work will be determined by the experience and ability level of the student. This course is designed as a guide to developing the student as actor, designer, director and theatre artist. All students will analyze various scripts, create comprehensive designs and/or perform scenes and monologues in class and for public, write in various modes, and will participate to their full ability in class activities. Students will be required to participate in one public performance worked on in class. Students will also be encouraged to submit for competition pieces at various Theatre competitions including but not limited to NMAA One Act Competition and Festival, State and National International Thespian Society Competitions. Students working out of this class will be able to connect with local Theatre, Film and Event Technical companies for unpaid and paid internships.

FA32011 ADVANCED THEATRE 2

Prerequisite: 11th - 12th Grade, Acting 1,2, Advanced Theater and/or permission of instructor

This class may also count in regards to awarding credits for Fall Mainstage Show and Musical, meaning that advanced student designers, directors and actors can use school productions as material for their class grade

Students may continue their study with the Advanced Theater Practice series. This series will focus the student into directing or playwriting where he/she will have the opportunity to work with other students to complete his/her personalized project, which will be approved by the instructor prior to enrollment.
**MUSIC**

**NOTE:** Some music classes require an audition with the teacher of that class. These classes have a co-curricular component requiring additional activities (see page 6).

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Description</th>
<th>Semester</th>
<th>Credits</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA15511</td>
<td>MARCHING BAND/CONCERT BAND 1</td>
<td>FALL</td>
<td>.5</td>
<td>No Fee</td>
</tr>
<tr>
<td>FA25911</td>
<td>MARCHING BAND/CONCERT BAND 2</td>
<td>FALL</td>
<td>.5</td>
<td>No Fee</td>
</tr>
<tr>
<td>FA36211</td>
<td>MARCHING BAND/CONCERT BAND 3</td>
<td>FALL</td>
<td>.5</td>
<td>No Fee</td>
</tr>
<tr>
<td>FA46111</td>
<td>MARCHING BAND/CONCERT BAND 4</td>
<td>FALL</td>
<td>.5</td>
<td>No Fee</td>
</tr>
</tbody>
</table>

◆ **Pre-Requisite: prior experience on wind or percussion instrument**

This ensemble performs on-field shows that combine excellent music and stunning visual elements to become entertaining and competitive productions. The marching band performs at all home football games and at several competitions each fall. Marching Band begins with two weeks of pre-season camps; evening rehearsals throughout the regular season are requirements for full participation in this ensemble. At the end of October, this class becomes a Concert Band, preparing and performing music at the Winter Concert. All students in marching band must participate in a concert ensemble in the Spring. Co-curricular and summer requirements apply.

<table>
<thead>
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<th>Fee</th>
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</thead>
<tbody>
<tr>
<td>FA16011</td>
<td>COLOR GUARD/FLAG CORPS</td>
<td>FALL</td>
<td>.5</td>
<td>No Fee</td>
</tr>
</tbody>
</table>

◆ The color guard performs alongside the marching band at football games and several out-of-town competitions in the fall. Color guard utilizes colorful costuming, dance-inspired movement and spins, tosses and other creative work on equipment such as flags, prop rifles and other implements to visually portray the music being performed. Dance experience is a plus but not required. Co-curricular and summer rehearsal requirements apply. This class is not associated with NJROTC Color Guard.

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>FA16021</td>
<td>PERCUSSION ENSEMBLE</td>
<td>SPRING</td>
<td>.5</td>
<td>No Fee</td>
</tr>
</tbody>
</table>

◆ Percussion Ensemble is designed to give percussionists instrument-specific instruction on all percussion instruments and techniques. Students will perform various percussion ensemble pieces, prepare concert band parts and prepare audition music. All LAHS Bands percussionists should register for this class. Any other interested students should speak with the teacher before registering for this class.

<table>
<thead>
<tr>
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<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA15611</td>
<td>INDIVIDUAL &amp; ENSEMBLE/CONCERT BAND 1</td>
<td>FALL</td>
<td>.5</td>
<td>No Fee</td>
</tr>
<tr>
<td>FA26011</td>
<td>INDIVIDUAL &amp; ENSEMBLE/CONCERT BAND 2</td>
<td>FALL</td>
<td>.5</td>
<td>No Fee</td>
</tr>
<tr>
<td>FA36311</td>
<td>INDIVIDUAL &amp; ENSEMBLE/CONCERT BAND 3</td>
<td>FALL</td>
<td>.5</td>
<td>No Fee</td>
</tr>
<tr>
<td>FA46211</td>
<td>INDIVIDUAL &amp; ENSEMBLE/CONCERT BAND 4</td>
<td>FALL</td>
<td>.5</td>
<td>No Fee</td>
</tr>
</tbody>
</table>

◆ **Prerequisite: prior experience on a wind or percussion instrument.**

Students in this class will work on personal and ensemble skill development, prepare music and perform in ensembles of various sizes and instrumentation, prepare audition materials for honor bands and receive in-class “mini-lessons”. Students will prepare material for honor bands and perform at the Winter Concert.

<table>
<thead>
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<th>Credits</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA15711</td>
<td>WIND ENSEMBLE 1</td>
<td>SPRING</td>
<td>.5</td>
<td>No Fee</td>
</tr>
<tr>
<td>FA26111</td>
<td>WIND ENSEMBLE 2</td>
<td>SPRING</td>
<td>.5</td>
<td>No Fee</td>
</tr>
<tr>
<td>FA36411</td>
<td>WIND ENSEMBLE 3</td>
<td>SPRING</td>
<td>.5</td>
<td>No Fee</td>
</tr>
<tr>
<td>FA46311</td>
<td>WIND ENSEMBLE 4</td>
<td>SPRING</td>
<td>.5</td>
<td>No Fee</td>
</tr>
</tbody>
</table>

◆ **Prerequisite: Audition/demonstration of advanced skills and knowledge on wind or percussion instrument plus instructor recommendation**

This group is the advanced concert band at LAHS. A good deal of prior musical and technical knowledge, skill and achievement are necessary for participation in this ensemble. Performing music of considerable musical and technical challenge and import, Wind Ensemble provides the challenge and experiences necessary for next-level achievement and success. Wind Ensemble students will participate in the District MPA and State Concert Band Contest.
FA15811  SYMPHONIC BAND 1  SPRING SEMESTER .5 CREDIT  No Fee
FA26211  SYMPHONIC BAND 2  SPRING SEMESTER .5 CREDIT  No Fee
FA36511  SYMPHONIC BAND 3  SPRING SEMESTER .5 CREDIT  No Fee
FA46411  SYMPHONIC BAND 4  SPRING SEMESTER .5 CREDIT  No Fee

◆ Prerequisite: Audition/demonstration of intermediate skills and knowledge on wind or percussion instrument plus instructor recommendation

This ensemble is an intermediate band that performs quality music necessary for musical and technical growth. Students in this group are maturing as musicians and are given the opportunity to grow, develop skills and gain the experience they will need to move to higher levels of proficiency and musicality. Symphonic Band participates in the District MPA and Spring Concerts.

FA15911  JAZZ ENSEMBLE  SEMESTER .5 CREDIT  No Fee

◆ Prerequisite: Audition/demonstration of skills and knowledge on instrument plus instructor recommendation

Jazz Ensemble is a group dedicated to the study and performance of jazz music, exploring styles as various as swing, rock, funk and blues. This ensemble will prepare and perform composed charts as well as explore the fundamentals of jazz harmony and improvisation. A certain level of proficiency on your instrument must be demonstrated in order to participate in this group. All jazz students (except bass and guitar) must be registered for a concert ensemble all year.

FA13111  BEGINNING GUITAR  SEMESTER .5 CREDIT  $10

Prerequisite: 10th - 12th Grade
This class will provide an exploratory introduction to the guitar. Students will learn basic fingering, picking, note reading, and chord reading. They will explore folk, blues, jazz, classical, and country styles of guitar playing. No experience on the guitar is necessary. Students provide their own guitars. The class will be limited to 20.

FA36132  AP MUSIC THEORY  YEAR 1 CREDIT  No Fee

Prerequisite: 10th - 12th Grade and Demonstration of skills and knowledge plus primary instructor recommendation

This is a challenging academic class for advanced music students. Focusing on Western Classical Harmony, styles and techniques, students in this class will learn the fundamentals of composition and ear training. AP Music Theory fulfills the AP requirement for graduation and students may earn college credit with a high enough score on the AP exam. Students are required to pay for and take the AP Exam in the spring in order to earn a weighted grade.

FA13112  MIXED ENSEMBLE 1  YEAR 1 CREDIT  $25
FA23212  MIXED ENSEMBLE 2  YEAR 1 CREDIT  $25
FA33312  MIXED ENSEMBLE 3  YEAR 1 CREDIT  $25
FA43412  MIXED ENSEMBLE 4  YEAR 1 CREDIT  $25

◆ The Mixed Ensemble (Concert Choir) is an introductory course for students with little or no choral or music reading experience. Students will learn to read choral music and basic music theory while singing a wide variety of music in three and four part harmony. Strong emphasis will be placed on learning to sing with good vocal technique.

FA14412  ADVANCED WOMEN’S ENSEMBLE 1  YEAR 1 CREDIT  $25
FA24512  ADVANCED WOMEN’S ENSEMBLE 2  YEAR 1 CREDIT  $25
FA34612  ADVANCED WOMEN’S ENSEMBLE 3  YEAR 1 CREDIT  $25
FA44712  ADVANCED WOMEN’S ENSEMBLE 4  YEAR 1 CREDIT  $25

◆ Prerequisite: Audition
The Advanced Women’s Ensemble (Bel Canto) will give women with advanced music reading skills, applicable theory knowledge and advanced vocal technique the opportunity to master a challenging variety of four part women’s choral literature from multiple genres and periods.

FA24112  SELECT MIXED ENSEMBLE 1  YEAR 1 CREDIT  $25
FA34212  SELECT MIXED ENSEMBLE 2  YEAR 1 CREDIT  $25
FA44312  SELECT MIXED ENSEMBLE 3  YEAR 1 CREDIT  $25

Prerequisite: Audition, 10th - 12th Grade
The Select Mixed Ensemble (Schola Cantorum) will give students with outstanding music reading skills, applicable theory knowledge and advanced vocal technique the opportunity to master a challenging variety of four and eight part mixed choral literature from multiple genres and periods.
FA14712 DIGITAL MUSIC AND AUDIO PRODUCTION  C SEMESTER .5 CREDIT $25
◆ This course explores the mastery of the basic elements of music and the digital recording and sound production process. Over the course of the semester we will work to create music and recording projects of your design. Whether you are a singer-songwriter or an aspiring Electronic Dance Music artist, this class will give you the tools, knowledge, and experiences to help you learn this field and become a marketable professional.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Year</th>
<th>Credit</th>
<th>Fee</th>
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</thead>
<tbody>
<tr>
<td>FA15012</td>
<td>CONCERT ORCHESTRA 1</td>
<td>YEAR</td>
<td>1</td>
<td>$25</td>
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<tr>
<td>FA25112</td>
<td>CONCERT ORCHESTRA 2</td>
<td>YEAR</td>
<td>1</td>
<td>$25</td>
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<tr>
<td>FA35212</td>
<td>CONCERT ORCHESTRA 3</td>
<td>YEAR</td>
<td>1</td>
<td>$25</td>
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<tr>
<td>FA45312</td>
<td>CONCERT ORCHESTRA 4</td>
<td>YEAR</td>
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<td>$25</td>
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◆ Prerequisite: Previous string instrumental experience
This course will continue to develop the fundamentals of string playing through traditional and contemporary string literature. This is the entry-level orchestra for string players and involves practice and performance preparation. Additional opportunities exist to audition for Honor Orchestra and participate with solo and ensemble. Appropriate performance attire (all black) is required. Students should expect to “practice their age on a daily basis” (a 15 year old student should practice, minimally, 15 minutes each day). Students are expected to perform in 3 concerts throughout the year and participate with MPA (music performance assessment) as required by the State of New Mexico. This is a year long class and participation for the entire year is expected.

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<th>Course Code</th>
<th>Course Name</th>
<th>Year</th>
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<td>FA15412</td>
<td>SYMPHONIC STRINGS 1</td>
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<tr>
<td>FA25512</td>
<td>SYMPHONIC STRINGS 2</td>
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<tr>
<td>FA35612</td>
<td>SYMPHONIC STRINGS 3</td>
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<tr>
<td>FA45712</td>
<td>SYMPHONIC STRINGS 4</td>
<td>YEAR</td>
<td>1</td>
<td>$25</td>
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◆ Prerequisite: Successful audition (two 3 octave scales and a challenging solo from the standard repertory) and instructor approval.
This course will focus on the great string literature of the Baroque, Classical, Romantic and Contemporary periods. This class involves rigorous practice and performance preparation. Additional opportunities to audition for Honor Orchestra and All-State Orchestra are available. Appropriate performance attire (all black) is required. Students are expected to perform in 3 concerts throughout the year and participate with MPA (music performance assessment) as required by the State of New Mexico. This is a year long class and participation for the entire year is expected.
NOTE: In order to enroll in the second semester of any foreign language class, a student must have been enrolled in, and received the minimum grade required, for the first semester of the same level.

### EL13412 LATIN 1

- **Prerequisite:** None
- **Description:** Latin 1 focuses on basic grammar and vocabulary. Many English words, especially longer words and those belonging to science or medicine, are derived from Latin roots. Consequently, studying Latin is an excellent way for students to develop their English vocabulary, both for standardized tests such as the SAT and in general. Over the course of the year, students read and study passages adapted from authors such as Cicero, Caesar, Vergil, Ovid, and Augustine. Thus the course also functions as an introduction to ancient Roman literature, history, myth, and culture. As with any foreign language, regular studying and memorization are required.

### EL23512 LATIN 2

- **Prerequisite:** Latin 1 with a minimum grade of “C”
- **Description:** After some review, Latin 2 completes the study of essential grammar and vocabulary. The course helps students to not only develop a larger English vocabulary (see remarks in Latin 1 course description), but also acquire a sharper, substantial understanding of grammatical concepts and structures. This improves students’ English grammar and provides an excellent grounding for the study of any other language. Over the course of the year, students read and study passages adapted from authors of the Middle Ages and Renaissance, such as, Petrarch, Erasmus, Copernicus, and More. Consequently, students gain insight into the long history of the Latin language and a rich intellectual tradition. As with any language, regular studying and memorization are required.

### EL33612 LATIN 3

- **Prerequisite:** Latin 2 with a minimum grade of “C”
- **Description:** Latin 3 introduces students to original, unadapted classical Latin and specific Roman authors and works. While the course is focused on accurate translation and grammatical understanding, it also includes literary interpretation and analysis. Thus the course helps students to further develop their reading comprehension and critical thinking skills. In the fall, students read prose selections from Livy’s *Early History of Rome* (*Ab Urbe Condita*), such as the legends of Romulus and Remus, the Horatii and the Curiaii, and Coriolanus. In the spring, students read poetry selections from Ovid’s *Metamorphoses*, such as the myths of Arachne, Narcissus, Orpheus, and Daedalus and Icarus. Regular studying and vocabulary memorization are required.

### EL43712 LATIN 4

- **Prerequisite:** Latin 3 with a minimum grade of “C”
- **Description:** Latin 4 continues the study of original, unadapted classical Latin, focusing on two important and influential works, namely Caesar’s *Gallic War* and Vergil’s *Aeneid*. Although the course emphasizes accurate sight translation and grammatical understanding, it also requires literary interpretation and analysis. This is an excellent way for students to challenge and sharpen their reading comprehension and critical thinking skills. Topics include literary genre and style, Roman cultural values, war and empire, leadership, views of non-Romans, history and cultural memory, and Roman religion. Some readings are in English. Regular studying and vocabulary memorization are required. The course is comparable to AP Latin in terms of difficulty, but is not as focused on AP exam preparation.

### EL43812 AP LATIN

- **Prerequisite:** Latin 3 with a minimum grade of “C”
- **Description:** AP Latin continues the study of original, unadapted classical Latin, focusing on two important and influential works, namely Caesar’s *Gallic War* and Vergil’s *Aeneid*. Although the course emphasizes accurate sight translation and grammatical understanding, it also requires literary interpretation and analysis. This is an excellent way for students to challenge and sharpen their reading comprehension and critical thinking skills. Topics include literary genre and style, Roman cultural values, war and empire, leadership, views of non-Romans, history and cultural memory, and Roman religion. Some readings are in English. Regular studying and vocabulary memorization are required. Students are required to take and pay for the AP exam in the Spring in order to earn a weighted grade.
Basic skills in understanding, speaking, reading, and writing French are developed. Emphasis is placed on expressing one’s thoughts clearly in the language both orally and in written form. The cultures of French-speaking countries are examined. Workbooks and online resources provide additional practice. DVDs and songs introduce authentic cultural information. Consistent daily studying of vocabulary and grammar outside of class is required, as well as consistent daily studying overall.

**EL13912 FRENCH 2**

**Prerequisite: French 1 with a minimum grade of “C”**

This course extends and improves the student’s knowledge of French. Vocabulary and grammar provide a basis for the student to become proficient in speaking and writing in French. The study of cultures of French-speaking countries continues. Students are expected to communicate in French. Workbooks and online resources provide additional practice. DVDs and songs introduce authentic cultural information. Consistent daily studying of vocabulary and grammar outside of class is required, as well as consistent daily studying overall.

**EL24012 FRENCH 3**

**Prerequisite: French 2 with a minimum grade of “C”**

French 3 continues and expands the programs of French 1 and 2. It includes a comprehensive review of grammar and an overview of literature, culture, and history. Exclusive use of French is the objective of French 3. Workbooks and online resources provide additional practice. DVDs and songs introduce authentic cultural information. (Consistent daily studying of vocabulary and grammar outside of class is required, as well as consistent daily studying overall.) A novel will be read in French.

**EL34222 HONORS FRENCH LANGUAGE AND CULTURE**

**Prerequisite: French 3 with a minimum grade of “C” or AP French Language and Culture**

This course is ideal for students who want an in-depth preparation for either the AP exam or a future career path that requires knowledge of French. This course provides the 5 C’s of foreign language learning: Communication, Culture, Connections, Comparisons and Communities. Students will receive a comprehensive foreign language experience and have the opportunity to enhance and review grammatical structures, to read and write extensively, and to use their speaking skills for the discussion of history, culture and current events. Thematic units will enable students to study a variety of concepts in interesting, meaningful, and engaging contexts. Students will develop an awareness and appreciation of aspects of the target culture, including products (books, music, laws, conventions, institutions); practices (patterns of social interactions); and perspectives (values, attitudes, assumptions).

**EL34132 AP FRENCH LANGUAGE AND CULTURE**

**Prerequisite: 11th - 12th Grade and French 3 with a minimum grade of “C”**

This AP course provides an opportunity for students of French to enhance and review grammatical structures, to read and write extensively, and to use their speaking skills for discussion of culture, and current events. To achieve these goals students will have to immerse themselves in the language and culture of French speaking countries. Students will read and listen to authentic sources not only in the classroom but also at home. Thematic units will enable students to study a variety of concepts in interesting, meaningful, and engaging contexts. Students will develop an awareness and appreciation of aspects of the target culture, including products (books, music, laws, conventions, institutions); practices (patterns of social interactions); and perspectives (values, attitudes, assumptions). Students are required to pay for and take the AP Exam in the spring in order to earn a weighted grade.

**EL14312 SPANISH 1**

**Prerequisite: Spanish 1 with a minimum grade of “C”**

This course extends and improves the student’s knowledge of Spanish. Vocabulary and grammar provide a basis for the student to become proficient in speaking and writing in Spanish. Students are expected to communicate in Spanish. Consistent daily studying outside of class is required.

**EL14412 SPANISH 2**

**Prerequisite: Spanish 1 with a minimum grade of “C” or higher**

This course extends and improves the student’s knowledge of Spanish. Vocabulary and grammar provide a basis for the student to become proficient in speaking and writing in Spanish. Students are expected to communicate in Spanish. Consistent daily studying outside of class is required.

**EL24512 SPANISH 3**

**Prerequisite: Spanish 2 with minimum grade of “C” or higher**

Spanish 3 continues the programs of Spanish 1 and 2. It includes a complete review of grammar and an introduction to literature, culture, and history. Exclusive use of Spanish is the primary objective of Spanish 3. Consistent daily studying is required outside of class.
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<th>Course Code</th>
<th>Course Name</th>
<th>Prerequisite</th>
<th>Description</th>
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<tbody>
<tr>
<td>EL35422</td>
<td>HONORS SPANISH LANGUAGE AND CULTURE</td>
<td>11th - 12th Grade, Spanish 3 with a minimum grade of “C” or higher</td>
<td>This course is ideal for students who want an in-depth preparation for the Spanish AP language exam by enhancing and reviewing grammatical structures, writing and reading extensively, and using their speaking skills for the discussion of history, culture, and current events. Students will receive a comprehensive foreign language experience and have the opportunity to enhance and review grammatical structures, to read and write extensively, and to use their speaking skills for the discussion of history, culture, and current events. Thematic units will enable students to study a variety of concepts in interesting, meaningful, and engaging contexts. Students will develop an awareness and appreciation of aspects of the target culture.</td>
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<tr>
<td>EL35332</td>
<td>AP SPANISH LANGUAGE AND CULTURE</td>
<td>11th - 12th Grade Spanish 3 with a minimum grade of “C” or higher</td>
<td>This course provides an opportunity for students of Spanish to prepare for the Spanish AP language exam by enhancing and reviewing grammatical structures, writing and reading extensively, and using their speaking skills for the discussion of literature, culture, and current events. Students read selections in texts, anthologies, readers, newspapers, and current magazines. Selections will be discussed in Spanish. Consistent daily studying outside of class is required. Students are required to pay for and take the AP Exam in the spring in order to earn a weighted grade.</td>
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<tr>
<td>EL14812</td>
<td>GERMAN 1</td>
<td>11th Grade, German 1 with a minimum grade of “C” or higher</td>
<td>This course provides the student with a broad introduction to the German language and culture. Emphasis is placed on the acquisition of the four basic skills: listening, speaking, reading and writing. Students acquire a base vocabulary and learn simple grammatical structures (including the past tense) needed to communicate in real-life situations. Workbooks and online resources provide additional practice. DVDs and songs introduce authentic cultural information. Consistent daily studying of vocabulary and grammar outside class is required.</td>
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<tr>
<td>EL14912</td>
<td>GERMAN 2</td>
<td>11th Grade, German 2 with a minimum grade of “C” or higher</td>
<td>This course follows the successful completion of German 1. The emphasis on basic language skills continues. Students will participate in a complete review of German 1 topics. They will broaden their knowledge of vocabulary on these topics and will acquire a more advanced knowledge of German structures for speaking and writing. By the end of German 2 the most important structures of the German grammar will have been covered. Students’ proficiency is enhanced through active use of the language via role-playing, projects and presentations. In addition to the textbook we will use a reader and online resources. Students are expected to communicate in German. Consistent daily studying outside of class is required.</td>
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<tr>
<td>EL25012</td>
<td>GERMAN 3</td>
<td>11th Grade, German 3 with a minimum grade of “C” or higher</td>
<td>German 3 presents a thematic approach to the study of the German language and culture. Each unit will revolve around a unit of grammar and a topic related to German culture. All grammar studied in German 1 and 2 will be reviewed and some additional higher level grammar will be introduced. Students will immerse themselves in German fairy tales, and legends, and learn about German history and culture. They will listen to traditional and modern German songs and podcasts, as well as read their first book. At the end of the course students should feel confident in their listening, reading, writing and speaking abilities to go on to AP German. Students will be required to use online resources for self-study. Almost exclusive use of German is the primary objective.</td>
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<tr>
<td>EL35222</td>
<td>HONORS GERMAN LANGUAGE AND CULTURE</td>
<td>11th - 12th Grade, German 3 with a minimum grade of “C” or higher</td>
<td>This course is ideal for students who want an in-depth preparation for the German AP exam by enhancing and reviewing grammatical structures, writing and reading extensively, and using their speaking skills for the discussion of history, culture, and current events. Thematic units will enable students to study a variety of concepts in interesting, meaningful, and engaging contexts. Students will develop an awareness and appreciation of aspects of the target culture.</td>
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1 CREDIT
No Fee
Prerequisite: 11th - 12 Grade, German 3 with a minimum grade of “C” or higher

This college-level course prepares students to take the AP German Language and Culture exam. Students will expand their abilities in all four language skills -- especially in oral and written expression -- through interaction with various aspects of the life, literature, and culture of German-speaking countries, as well as their relations to the world. Students will learn to express opinions and persuasive arguments on various topics. They will have to immerse themselves in the language and culture; therefore some of this study will have to be done at home. We will maintain a lively discussion in German about a great variety of topics inside and outside the classroom. This course will go beyond preparing for the AP exam. It seeks to develop language skills that can be used in various activities and disciplines later in life. Some students might even wish to study at a tuition-free university in Germany and this course will get them ready. The following links give more information about studying in Germany:
http://www.pasch-net.de/de/pas/cls/leh/unt/3383007.html

Students are required to pay for and take the AP Exam in the spring in order to earn a weighted grade.
MATHEMATICS
Department Chair: Sue Wilson, 663-2545, p.wilson@laschools.net

NOTE: It is highly recommended that the student have access to a TI-84 or TI-84 Plus graphics calculator if taking Algebra 1, Algebra 2, Trigonometry, Pre-Calculus 1 and 2, AP Statistics, AP Calculus AB, and AP Calculus BC. A scientific calculator is needed for Financial Literacy.

MT10212 ALGEBRA I  ◆
Prerequisite: Successful completion of previous math class and recommendation of current math teacher
Topics include: patterns, the real number system and its properties, solving equations, percent, introduction to statistics, inequalities, linear functions, absolute value functions, solving systems of equations, exponents, operations with polynomials, quadratics, rational functions, and radicals.

Please sign up for ALGEBRA I (MT10212) if:
• You are an 8th grade LAMS student in pre-algebra with a grade of “C” or higher.

NOTE: LAMS students with a “D” in pre-algebra should consider ALGEBRA I and ALGEBRA 1, INTERVENTION (math lab), with current teachers recommendation. Alternately, consider signing up the double block INTENSIFIED ALGEBRA.

MT11512 INTENSIFIED ALGEBRA  ◆
Students will be placed in this class by previous math teacher. This class is a double block class. Students will receive a math credit and an elective credit.
This course will cover the same topics as Algebra I, but at a slower pace. The course will focus on building and reinforcing foundational concepts. Topics include: patterns, the real number system and its properties, solving equations, percent, introduction to statistics, inequalities, linear functions, absolute value functions, solving systems of equations, exponents, operations with polynomials, quadratics, rational functions, and radicals.

Please sign up for INTENSIFIED ALGEBRA (MT11512) if:
• You are an LAMS student who is doing poorly in pre-algebra (a “D” or less) as an 8th grader.
• An LAMS student who needs a slower pace or extra help to absorb Algebra 1 content.
• Your LAMS math teacher recommends this course.

MT10312 GEOMETRY  ◆
Prerequisite: A minimum grade of “D” in both semesters of Algebra 1 and placement by current math teacher
This course is a study of Euclidean geometry and includes: dimensional objects (lines, planes, polygons, circles and polyhedrons), angular measurement, congruency, similarity, deductive and inductive reasoning, formal proofs, relational computations (perimeter, area, volume), right triangle trigonometry, and practical applications. Algebraic concepts and techniques are integrated and emphasized throughout the course to aid in the understanding of geometric concepts and applications, and to reinforce proficiency in algebraic skills.
MT21612 EXPLORATIONS IN MATH

Prerequisite: 10th - 11th Grade and must have passed both semesters of Geometry, but not yet taken Algebra 2. This course is structured to prepare students for Algebra 2. You may not take this course if you have completed Algebra 2.

Semester 1 will focus on reviewing and solidifying key Algebra I concepts like simplifying expressions, solving equations and inequalities, graphing & solving linear systems and functions. Semester 2 will focus on exploring the following Algebra 2 concepts: quadratics, factoring, exponents, and radicals.

Please sign up for EXPLORATIONS IN MATH (MT21612) if:
- You are an LAHS student who passed both semesters of Geometry, but has not yet taken Algebra 2 and if you ...
  - had a grade of "D" in Algebra 1 (LAMS or LAHS).
  - took INTENSIFIED ALGEBRA.
  - need additional preparation before taking ALGEBRA 2.

NOTE: This course counts as one of your 4 math credits but it does not count for the NCAA.

MT10512 ALGEBRA 2

◆ Prerequisite: A minimum grade of “D” in Algebra 1 and Geometry (an Algebra 1 grade of at least “C” is highly recommended), and placement by current math teacher.

This course is an extension of the Algebra 1 and Geometry curriculum. Topics include: relations, functions, equations and inequalities, quadratics, polynomials, algebraic expressions, systems of equations, polynomial functions, logarithmic and exponential functions, basic statistics and probability, and a some trigonometry.

NOTE: LAHS students with a D in ALGEBRA 1 or who took INTENSIFIED ALGEBRA should take EXPLORATIONS IN MATH before taking ALGEBRA 2.

MT21712 ELEMENTARY FUNCTIONS

Prerequisites: 10th - 12th Grade, must have passed both semesters of Algebra 2. This course is higher than the level of Algebra 2. Each semester is independent of the other and therefore may be taken in any given order.

This course will cover the following topics: polynomial functions, exponential functions, logarithmic functions, rational functions, sequence and series, conics, matrices, and trigonometry.

MT10612 ALGEBRA 2/TRIGONOMETRY

◆ Prerequisites: Grade of “A” in Algebra 1, grade of “A” or “B” in Geometry, a score of 24/30 on the pretest, or placement by the current math teacher. Algebra 2 / Trigonometry students are expected to complete a summer review of algebra expressions, equations, and inequalities; linear equation and inequality problems with graphs; and systems of linear equations (Algebra 2 chapters 1 - 3).

Chapters 1 - 3 will be reviewed during the first few days of class; homework will be included. A chapter 1 - 3 test that includes summer work will be given after the review. This course covers the rest of the material from both Algebra 2 (full year content) and Trigonometry (semester content). Please see the descriptions for those two courses for details. Students taking this course must be highly motivated in mathematics and be aware that there is 1-1.5 hours of homework per block class. Students must maintain a minimum “B” average or be moved to a regular Algebra 2 class after the chapter 1-3 test, at the end of the first quarter, or at the end of the first semester.

Please sign up for ALGEBRA 2 / TRIGONOMETRY (MT10612) if:
- You are an LAMS or LAHS student who ...
  - earned a grade of “A” in Algebra 1.
  - earned at least a 24/30 on placement test, is willing to do summer work, and is aware of that the average homework is 1.5 hours for each class block.
  - is aware that you will be transferred to a regular ALGEBRA 2 class if your grade falls below a B average.

MT20711 TRIGONOMETRY

◆ Prerequisite: a minimum grade of “C” in Algebra 1, Geometry, Algebra 2, and placement by the current math teacher. In addition, those students who wish to take Trig concurrently with Algebra 2 must have a “B” average in semester 1 of Algebra 2.

This is an upper level math course with a fast pace that requires mastery of Algebra 2 skills and concepts. Topics include trigonometric functions, acute angles, solving oblique and right triangles, radian measure and circular functions, graphs of the circular functions, trigonometric identities, inverse circular functions and trigonometric equations.
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<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<th>Prerequisite</th>
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<tr>
<td>MT20911</td>
<td>PRE-CALCULUS 1 (Pre-Calc BC)</td>
<td>.5</td>
<td>No</td>
<td>Trigonometry with a minimum grade of “B” or Algebra 2/Trigonometry with a</td>
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<td>minimum grade of “C” and placement by current math teacher</td>
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<td>This course covers limits, exponents and logarithms, polar coordinates and</td>
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<td>graphs of polar equations, vectors in space and a plane, applications of</td>
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<td>trigonometry and vectors, parametric equations, sequences and series,</td>
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<td>matrices, induction, and binomial probability.</td>
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<td>Please sign up for PRE-CALCULUS 1 (MT20911) if:</td>
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<td>o earned a grade of “B” in prior Algebra 2 or Algebra 2/Trigonometry</td>
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<td>(highly recommended).</td>
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<td>o earned a grade of “C” or higher in Trigonometry or Algebra 2/Trigonometry</td>
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<tr>
<td>MT21011</td>
<td>PRE-CALCULUS 2 (Pre-Calc AB)</td>
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<td>No</td>
<td>Trigonometry or Algebra 2/Trigonometry</td>
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<td>This course covers graphs and equations, functions and their graphs,</td>
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<td>polynomial and rational functions, analytic geometry, conics, rotation</td>
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<td>of axes and a preview of calculus.</td>
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<td>Please sign up for PRE-CALCULUS 2 (MT21011) if:</td>
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<td>o earned a grade of “B” in Algebra 2, Trigonometry, or Algebra 2/Trigonometry</td>
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<td>(highly recommended).</td>
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<td>o earned a grade of “C” or higher in Algebra 2, Trigonometry, Algebra 2/Trigonometry, or Pre-Calculus 1. (minimum requirement).</td>
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<td>o is planning to take AP Calc AB</td>
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<tr>
<td>MT31112</td>
<td>AP STATISTICS</td>
<td></td>
<td></td>
<td>11th - 12th Grade, minimum grade of “B” in Algebra 2 and placement by</td>
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<td>student's current math teacher.</td>
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<td>This course uses a hands-on, activity-based instruction to introduce the</td>
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<td>students to the fundamental concepts of statistics and their application</td>
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<td>without requiring any knowledge of Calculus. Its emphasis is on discussion,</td>
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<td>experimentation, and written explanation of problem solutions and their</td>
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<td>meanings and implications. There is an emphasis on Normal distributions.</td>
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<td>Topics include an analysis of data using graphs and summary statistics,</td>
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<td>basic survey &amp; experimental design, LSRL computation and inference about the</td>
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<td>slope, binomial &amp; geometric distributions, random variables &amp; combining</td>
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<td>distributions, sampling distributions, confidence intervals, inference</td>
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<td>using significance tests for means and proportions, Chi-Square</td>
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<td>distributions. The course will prepare students for all college courses</td>
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<td>that require knowledge of statistics, especially critical inferential</td>
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<td>reasoning as well as the AP test. This is a fast-paced course requiring</td>
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<td>good analytical skills and 1-1.5 hours of homework per block class. Students</td>
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<td>are required to pay for and take the AP Exam in the spring in order to earn</td>
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<td>a weighted grade.</td>
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<tr>
<td>MT31232</td>
<td>AP CALCULUS AB</td>
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<td></td>
<td>11th - 12th Grade and a grade of “A” or “B” in Algebra 2, Trigonometry,</td>
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<td>Pre-Calc 2 and placement by the current math teacher. This fast course is</td>
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<td>an in-depth study of the methods of differentiation and integration and the</td>
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<td>use of these techniques on applied problems. Other topics include a review</td>
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<td>of functions, analytic geometry, and limits. Substantial homework is required</td>
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<td>. Students are required to pay for and take the AP Exam in the spring in order</td>
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<td>to earn a weighted grade. Summer homework will be assigned for a grade.</td>
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<tr>
<td>MT31331</td>
<td>AP CALCULUS BC</td>
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<td></td>
<td>11th - 12th Grade and completion of Pre Calc 1 with a grade of “B” or better.</td>
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<td>This course can be taken concurrently with AP Calculus AB. This class is only</td>
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<td>offered during the second semester. It is designed for the motivated student</td>
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<td>who wishes to take the AP Calculus BC test in May. Students may take either</td>
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<td>the AP Calculus AB exam or the AP Calculus BC exam, but not both exams in</td>
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<td>the same year. It covers the additional material on the test that is not in</td>
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<td>the AP Calculus AB content. Students taking the AP Calculus BC exam will</td>
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<td>receive a score for both the AB part and the BC part of the exam. Students</td>
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<td>are required to pay for and take the AP Exam in the spring in order to earn</td>
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<td>a weighted grade.</td>
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</tbody>
</table>
Prerequisite: 11th - 12th Grade and a minimum grade of “D” in both semesters of Algebra 1, Geometry and Algebra 2.

Seniors may take Financial Literacy concurrently with Algebra 2 (requires a math teacher recommendation). THIS MATH CLASS IS NOT APPROVED FOR NCAA CREDIT, but it will count for a fourth high school math credit.

This math course provides an understanding of personal finance while reinforcing concepts and skills in high school mathematics. The sections cover personal income, budgets, taxes, interest rates, stocks and bonds, retirement and pensions, banking and credit, as well as student and home loans. Current events are incorporated to provide a real world context for the math concepts. Students must have a scientific calculator with an exponent key.
Los Alamos High School follows the Physics First Model of science learning where conceptual physics is taught to 9th graders to build the foundation for the sciences. The chemistry taught to 10th graders builds on the concepts taught in physics. The biology taught to 11th graders is a biochemistry class with heavy emphasis on applying the previously-learned chemistry concepts to living organisms.

SC10112 Conceptual Physics YEAR 1 CREDIT No Fee
◆ This 9th-grade physics course introduces students to the principles of physics that underlie many aspects of science. This course focuses on understanding physics conceptually through experimentation. Numerous lab activities will allow students to investigate concepts that relate directly to their own experiences. Basic algebra will be used throughout the course to extend students’ abilities, to help develop critical thinking skills, and to reinforce basic algebra skills learned in math class. Topics will include motion, forces, energy, wave properties, basic astronomy, thermal energy and electrostatics.

SC12222 Honors Physics / AP Physics 1 YEAR 1 CREDIT $25
◆ (Prerequisite enrollment of Geometry or Algebra 2, no lower than a B in eighth grade science and math, and a recommendation of current science teacher.) Ninth-graders with strong geometry and algebra skills may take this combined course as an alternative to Conceptual Physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves; sound; and an introduction to electric circuits. Numerous lab activities will allow students to analyze topics in detail. Twenty-five percent of the class time is laboratory investigations. Critical thinking, problem solving, and practical applications of mathematics will be further developed. Because the level of rigor and the concepts taught in this class are similar to AP Physics 1, a first-semester college-level algebra-based physics course, students will be given the opportunity to take and pay for the AP Exam in the spring in order to earn a weighted grade. Homework load in this class is significantly more than in the Conceptual Physics class.

SC31132 AP Physics 1 YEAR 1 CREDIT $25
Prerequisite: 10th - 12th grade. Physics or Honors Physics is highly recommended. Strong math and problem solving skills.
This course is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits. Students are required to pay for and take the AP Exam in the spring in order to earn a weighted grade. A substantial amount of homework is required for this class.

SC31232 AP Physics 2 YEAR 1 CREDIT $25
Prerequisite: 10th - 12th grade and a minimum grade of “B” in either Honors Physics or AP Physics 1 and concurrent enrollment in Trigonometry or higher.
AP Physics 2 is the equivalent to a second-semester college course in algebra-based physics intended for students interested in pursuing a biomedical degree. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; atomic and nuclear physics. Twenty-five percent of the class time is laboratory investigations. Students are required to pay for and take the AP Exam in the spring in order to earn a weighted grade. A substantial amount of homework is required for this class.

SC30432 AP Physics C YEAR 1 CREDIT $25
Prerequisite: Calculus or concurrent enrollment and a previous physics course.
The AP Physics C course is a calculus based physics course covering classical mechanics and electricity and magnetism intended for students pursuing an engineering degree. Strong emphasis is placed on solving a variety of challenging problems, some involving introductory differential and integral calculus. Students are expected to be motivated and handle independent and small group work. Twenty percent of the class time is laboratory investigations. There will be a considerable amount of work outside of the classroom. Students are required to pay for and take both AP Physics C Exams in the spring in order to earn a weighted grade. A substantial amount of homework is required for the class.
Prerequisite: Physics course and Algebra I or concurrent enrollment
This 10th-grade chemistry course emphasizes problem solving and critical thinking skills as principles of chemistry are developed and used to enable students to analyze current issues in science and technology. Extensive laboratory experiences are used to reinforce chemical concepts.

SC20622 HONORS CHEMISTRY
Recommendation: Geometry or concurrent enrollment, a minimum grade of “B” in Physics, or the recommendation of your current science teacher
This is a rigorous course for those wishing to pursue careers in science or engineering. Advanced topics include atomic structure, equilibrium and organic chemistry. Extensive laboratory experiences are used to reinforce chemical concepts. The amount of assigned homework will be substantially higher than that required for the corresponding general course.

SC30732 AP CHEMISTRY
Prerequisite: 11th - 12th Grade and completion of Algebra 2; Recommended: a minimum grade of “B” in Honors Chemistry or an “A” in Chemistry, or the recommendation of the science department. A summer assignment is required.
This college-level course uses math extensively in problem solving. Class involves, problems sets, laboratory with write-ups, and tests. Students are required to pay for and take the AP Exam in the spring in order to earn a weighted grade.

SC30812 BIOLOGY
Prerequisite: 11th - 12th Grade and completion of Chemistry or concurrent enrollment
Course work emphasizes evolution, diversity, genetics, ecological relationships, and cellular biochemistry, and uses of biological technologies in society. Activities are designed to acquaint students with processes of science, such as experimental design and data interpretations. Students will research various topics and present their findings in oral and written form during the school year.

SC30922 HONORS BIOLOGY
Prerequisite: 11th - 12th Grade, minimum grade of “B” in Honors Chemistry or Chemistry or recommendation of current science teacher
This is a challenging course for serious science students; especially those who intend to pursue a career in biology, medicine, or another scientific field. This course concentrates on critical thinking skills, problem solving, and extensive inquiry-based laboratory work. A substantial amount of homework is required, including the research of regular biology current events.

SC31032 AP BIOLOGY
Prerequisite: 11th - 12th Grade. A summer assignment is required.
This is a college-level introductory course. Course content follows the curriculum recommended by the College Board. Topics include molecules and cells, heredity and evolution, and organisms and populations. Extensive homework, note-taking from text, laboratory work, and outside readings are required. A summer reading assignment is also required. Students are required to pay for and take the AP Exam in the spring in order to earn a weighted grade. A more than substantial amount of homework is required for this class.

THE FOLLOWING COURSES ARE ELECTIVES AND DO NOT COUNT AS A SCIENCE CREDIT REQUIRED FOR GRADUATION.

EL45911 FORENSIC SCIENCE 1
Prerequisite: 12th Grade
Interested in learning how science is used to solve crimes? In this semester course, the student will learn everything required at the crime scene, what everyone in the forensic team does, how the criminal mind works, anatomy of the human body, and the process of the forensic autopsy. Students will learn forensic fingerprinting and forensic anthropology. The final exam consists of solving a mock crime and may involve extensive out of class work

EL46011 FORENSIC SCIENCE 2
Prerequisite: 12th Grade, Forensic Science 1 strongly recommended, but not required
In this semester course, the students will continue on from semester one to learn more forensic science. Students will learn about trace evidence, forensic toxicology, arson and explosives, ballistics, serology, DNA, entomology, handwriting analysis, cybercrime, and cold cases. The final exam consists of solving a mock crime and may involve extensive out-of-class work.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Year</th>
<th>Credit</th>
<th>Fee</th>
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<tbody>
<tr>
<td>EL36122</td>
<td>HONORS HUMAN ANATOMY &amp; PHYSIOLOGY</td>
<td>1</td>
<td>1</td>
<td>$30</td>
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<tr>
<td>EL36232</td>
<td>AP ENVIRONMENTAL SCIENCE</td>
<td>1</td>
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<td>$25</td>
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**EL36122 HONORS HUMAN ANATOMY & PHYSIOLOGY**

**Prerequisite:** 11th - 12th Grade, Chemistry with a minimum grade of “B”; completion or concurrent enrollment in Biology

This course provides students with an advanced and detailed understanding of the structure and functions of the human body. It is intended to prepare those who are interested in further specialized work in the medical or biological sciences. Laboratory work including dissection and other hands-on activities will be used in teaching and reinforcing conceptual information.

**EL36232 AP ENVIRONMENTAL SCIENCE**

**Prerequisite:** 11th - 12th Grade and completion of Physics, Chemistry; and completion or current enrollment in Biology. A summer assignment is required.

This college-level course will address problems both man-made and natural, and will examine alternative solutions for resolving and/or preventing them. Basic themes will include: science as a process, energy conversions underlying all ecological processes, the Earth’s interconnected systems, how humans alter systems, environmental problems in cultural and social contexts, and human survival based on sustainable systems. Students are required to pay for and take the AP Exam in the spring in order to earn a weighted grade.
## SOCIAL STUDIES

Department Chair: Colby Holland, 663-2535, c.holland@laschools.net

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credit</th>
<th>Fee</th>
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<tbody>
<tr>
<td>SS10112</td>
<td>WORLD HISTORY AND GEOGRAPHY: Renaissance to the Present</td>
<td>YEAR</td>
<td>1 CREDIT</td>
<td>No Fee</td>
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<td></td>
<td>This course surveys modern World History from the Renaissance to the 21st Century through a global approach that examines Europe, Asia, Africa, and the Americas. This course is required for graduation.</td>
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<tr>
<td>SS20212</td>
<td>NEW MEXICO HISTORY SINCE 1900</td>
<td>SEMESTER</td>
<td>.5 CREDIT</td>
<td>No Fee</td>
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<td>Prerequisite: 10th - 12th Grade</td>
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<td>This is a one semester course designed to help students become more knowledgeable and more aware of the historic, political, geographic, economic, and social forces that have shaped our state in the last century. The course will integrate history, current issues, literature and the arts, analysis of primary sources, and discussion of the accomplishments of, and the challenges faced by New Mexicans. This course is required for graduation.</td>
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<tr>
<td>SS20312</td>
<td>U.S. HISTORY AND GEOGRAPHY</td>
<td>YEAR</td>
<td>1 CREDIT</td>
<td>No Fee</td>
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<td></td>
<td>Prerequisite: 10th - 12th Grade, World History and Geography</td>
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<td>This course covers U.S. history since 1865, surveying the political, economic, social, and cultural development of the American people. AP US History may be substituted for this course. This course is required for graduation.</td>
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<tr>
<td>SS20432</td>
<td>AP U.S. HISTORY</td>
<td>YEAR</td>
<td>1 CREDIT</td>
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<td></td>
<td>Prerequisite: 10th - 12th Grade, World History and Geography</td>
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<td>This college-level course includes a broad survey of significant events, trends, personalities, and concepts from the colonial period to the present. This course is intended for the serious student of American history who has solid academic skills. Extensive homework is required. This course may be taken as an alternative to U.S. History. Students are required to pay for and take the AP Exam in the spring in order to earn a weighted grade.</td>
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<tr>
<td>SS30511</td>
<td>ECONOMICS</td>
<td>SEMESTER</td>
<td>.5 CREDIT</td>
<td>No Fee</td>
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<td>Prerequisite: 11th - 12th Grade</td>
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<td>This course introduces students to the U.S. free-market system, covering such topics as the theory of supply and demand, business organization and investment, the role of government, the process of economic growth, problems of maintaining a stable economy, and the role of the U.S. in a world economy. This course is required for graduation.</td>
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<tr>
<td>SS30831</td>
<td>AP MICROECONOMICS</td>
<td>SEMESTER</td>
<td>.5 CREDIT</td>
<td>No Fee</td>
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<td>Prerequisite: 11th - 12th Grade -- Economics is highly recommended but not required</td>
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<td>This is a college-level course that provides a thorough understanding of the principles of economics that apply to the functions of individual decision-makers, both consumers and producers, within the larger economic system. It places primary emphasis on the nature and functions of product markets, and includes the study of factor markets. Students must have excellent reading, writing, studying and algebra skills. This course requires an extensive amount of reading and preparation for every class. The student can expect to spend, on average, one hour per class on homework. Test days will require more time for preparation. Both AP Microeconomics and AP Macroeconomics must be completed successfully to meet the required semester credit for Economics. Students are required to pay for and take the AP Exam in the spring in order to earn a weighted grade.</td>
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Prerequisite: 11th - 12th Grade and Microeconomics -- Economics is highly recommended but not required.

This is a college level course designed to give a thorough understanding of the principles of economics that apply to an economic system as a whole. This course places particular emphasis on the study of national income and price determination, and also develops familiarity with economic performance measures, economic growth, and international economics. After the AP exams, this course will also cover Comparative Economics. Students must have excellent reading, writing and algebra skills. This course requires an extensive amount of reading and preparation for every class. The student can expect to spend, on average, one hour per class on homework. Test days will require more time for preparation. Both AP Microeconomics and AP Macroeconomics must be completed successfully to meet the required semester credit for Economics. Students are required to pay for and take the AP Exam in the spring in order to earn a weighted grade.

Prerequisite: 11th - 12th Grade

This course is designed to present a critical perspective of the role government plays in our society. It focuses on the principles of government of the United States, the political institutions comprising the government, and analysis of case studies. The course also analyzes various types of government, local and national politics, and the formation of the U.S. government. This course is intended to help students understand the world around them and their role as active citizens. This course is required for graduation.

Prerequisite: 11th - 12th Grade

AP United States Government and Politics is a college level course that will cover the formal structures of government and the American political system. This course helps students prepare for the AP United States Government and Politics exam. Students registering for this class should have solid writing and studying skills. The entire year of AP US Government and Politics must be completed successfully to meet the required .5 semester credit for Government. Students are required to pay for and take the AP Exam in the spring in order to earn a weighted grade. A summer assignment is required to be completed before the first day of class. Students can expect to spend, on average, two hours of homework per week.

THE FOLLOWING COURSES ARE ELECTIVES AND DO NOT COUNT AS A SOCIAL STUDIES CREDIT REQUIRED FOR GRADUATION.

Prerequisite: 11th - 12th Grade

This college-level course acquaints the serious student with the major trends and events of European history since 1400. Emphasis is placed on Europe as a center for intellectual, cultural, political, social, and economic developments. Class work centers upon interpretation and analysis of European events and their relationship to modern developments. The student can expect to spend, on average, one hour per class on homework. A summer assignment is required to be completed before the first day of class. Students are required to pay for and take the AP Exam in the spring in order to earn a weighted grade.

Prerequisite: 10th - 12th Grade

This course examines the behavior of human beings. Through discussion, role-playing, hands-on experiences, video, and an individual semester project, students study psychology's major contributors, examine the brain, investigate human development and cognition, and analyze theories of personality and abnormal psychology. This unique course offers a challenging and relevant curriculum for all students.

Prerequisite: 11th - 12th Grade

This challenging course introduces students to the scientific study of the behavior and mental processes of human beings and animals. Students are exposed to the facts and principles associated with the thirteen major sub-fields of an introductory college psychology course. This course is intended for the committed student who has a strong interest in psychology and who is willing to work hard to achieve the instructor's high standards. The student can expect to spend, on average, one hour per class on homework. A summer assignment is required to be completed before the first day of class. Students are required to pay for and take the AP Exam in the spring in order to earn a weighted grade.
The AP Human Geography is demanding but highly rewarding curriculum that helps prepare students to compete and cooperate in the 21st century. The dynamic of the push and pull of humanity is explored through the lens of population, climate/environmental, and social challenges. Physical geographic skills, map interpretation, political struggle, development issues and language connections are covered. The focus is spatial organization of place and region in relation to humankind. AP Human Geography requires extensive homework. Students are required to pay for and take the AP Exam in the spring in order to earn a weighted grade. A summer assignment is required to be completed before the first day of class. Expect to spend 3 hours per week with homework. * deposit for Barron's AP Human Geography set

This leadership class will require students to plan, implement and evaluate school-wide projects by using both leadership and problem-solving skills. Students will be challenged to understand their role in leadership, identify ways to best interact with others, work together to solve local problems on campus, and become an asset to LAHS. This class requires some commitment outside of class time and attendance at Student Council meetings.
EL27611 DRIVER'S EDUCATION FALL SEMESTER .5 CREDIT No Fee
EL27711 DRIVER'S EDUCATION SPRING SEMESTER .5 CREDIT No Fee

◆ Prerequisite: 15+ years of age
This course, offered during the school day, presents material and activities necessary for the student to pass the written portion of the Department of Transportation's requirement for a driver's permit. Students must arrange to complete the driving portion of the requirement on their own. Please note: Due to the New Mexico Traffic Safety Bureau's minimum hourly requirements, students may miss no more than 6 classes within the semester. Any student who misses more than 6 classes, even if those classes are excused, cannot receive his or her Driver's Ed Certificate of Completion and thus cannot get his or her driver's permit. Students with extra-curricular commitments, causing school absences, should be cautious about registering for this class.

EL16811 STUDENT ASSISTANT 1 SEMESTER .5 CREDIT No Fee
EL16911 STUDENT ASSISTANT 2 SEMESTER .5 CREDIT No Fee

Prerequisite: Permission of instructor and administration with approved application from guidance
The student assistant program is designed to provide students with a job-oriented learning experience which will better prepare individuals for life and work skills upon graduation. These on-the-job experiences can possibly include clerical tasks, lab set up, inventory, and organizational tasks. Students may earn only 1 elective credit of Student Assistant towards graduation. Student Assistant 2 builds upon the skills developed in Student Assistant 1.

EL37011 STUDENT INTERN 1 SEMESTER .5 CREDIT No Fee
EL37111 STUDENT INTERN 2 SEMESTER .5 CREDIT No Fee

Prerequisite: 11th - 12th Grade, referral from department chair and permission of the instructor with approved application from guidance
The student intern program is a work-experience opportunity whereby students can “earn while learning.” Jobs with the school are contracted for one semester but can be extended to one full year. Interns earn an hourly wage based on the number of hours employed. Internships cannot be guaranteed until the beginning of the fall semester at which time Internship applications are completed. Candidates are recommended by a teacher. All Internships must be approved by the principal and the department chair.

EL27211 COMMUNITY WORK EXPERIENCE (M.A.P.S.) 1 SEMESTER .5 CREDIT No Fee
EL27311 COMMUNITY WORK EXPERIENCE (M.A.P.S.) 2 SEMESTER .5 CREDIT No Fee

Prerequisite: 10th - 12th Grade M.A.P.S. 1: completed application and administrative approval. M.A.P.S. 2: successful completion of MAPS 1.
M.A.P.S.-Mentorship, Apprenticeship, Partnership, Service is a community-based program which provides students the opportunity to explore possible areas of career interest with hands-on experience in businesses, community agencies, and elementary schools. Students are responsible for locating a mentor and are provided assistance from the administration when necessary. M.A.P.S. programming at LANL is not an option. Students must have their own reliable transportation.

EL37211 COMMUNITY INTERNSHIP COLLABORATION SEMESTER .5 CREDIT No Fee

Prerequisite: 11th-12th Grade - UNM Dual Credit GNST 192-303
The Community Internship Collaboration combines the experience of college classes with working at a local business or organization. Students will apply for an internship through UNM-LA and interview with the organization directly. Students will learn how to tailor a resume and cover letter, and give a professional job interview. Students will be paid $10/hour up to 60 hours for the work completed during the internship. Throughout the program, students will learn not only from their mentor at work, but from a faculty advisor and through their fellow students during the weekly unpaid class meetings. Course topics include communication, time management, project planning, prioritizing, and presentation skills. The culmination of the course will be a sharing of the internship experience through a presentation. This is an excellent opportunity for career discovery. Students cannot register for this class during course selection The student must submit an application at the beginning of the semester. If accepted to the CIC program, a guidance counselor will make a schedule change.
EL37311  JOB XP1  SEMESTER .5 CREDIT  No Fee
Prerequisite: 11th - 12th Grade
This class will combine on-the-job practical experience with instruction on general employment and career knowledge, management and professional expectations of employees, and the rights of those employees in the workplace. Students are required to have a job before the start of the school year/semester that employees them a minimum of 10 hours per week. The student's employer must be willing to fill out evaluations each 9 weeks and work with the student on correcting deficiencies and becoming a better employee. The employee will be responsible for keeping track of wages and hours on the appropriate form. The instruction portion of this class will take place online and students are required to meet all deadlines and stay up-to-date on assignments/tests.

EL37411  JOB XP2  SEMESTER .5 CREDIT  No Fee
Prerequisite: 11th - 12th Grade and a grade of B or better in Job XP1
This is a continuation of the Job XP1 class with more emphasis on management expectations and laws in the workplace. Production of a professional resume, cover letter, company research, and development of interviewing skills through self-assessment and study of other professional, time management and technology skills materials will be expected. On-the-job practical experience will provide the student with an application for much of their learning. See Job XP1 for other requirements.

STUDENT WELLNESS

Department Chair: Garett Williams, 663-2628, ga.williams@laschools.net

Graduation requirement may be fulfilled by taking one complete credit of “Foundations in Physical Education”, or by taking two complete credits of “ROTC”. PE uniforms are required for these courses.

PE10112  FOUNDATION IN PHYSICAL EDUCATION  YEAR  1 CREDIT  $20 *
◆ Fulfills the PE graduation requirement.
This course introduces the students to individual/team sports activities and to good health practices. Exercises and aerobic running are a daily part of this class. Testing of fitness levels with state-of-the-art technology and development of a fitness portfolio are included. This course is structured to provide students with knowledge and skill of physical activities that best serve their needs for total fitness and lifelong wellness. The year may include the following activities: soccer, softball, flag football, ultimate Frisbee, basketball, badminton, table tennis, pickleball, lacrosse, flag rugby, swimming, volleyball, ice skating, floor hockey, Frisbee golf, trail hiking, physical fitness testing, and multilevel activities (indoor games). The conditioning portion of the class introduces students in the use of cardio machines, strength resistance machines, and state-of-the-art fitness technology. PE uniforms are required. *Uniform Fee

HE30111  HEALTH  SEMESTER .5 CREDIT  No Fee
Prerequisite: 11th - 12th Grade
The course includes in-depth coverage of the following: the body systems, physical fitness, nutrition, stress management, drug and alcohol abuse prevention, and human sexuality including HIV. The following topics will also be covered: accessing and evaluating health information via the internet, communicable and non-communicable diseases, domestic and dating violence, depression, mental disorders, and suicide. Course material in this class may contain readings or discussions in which topics of a sexual nature are presented. Note: This course is required for graduation and must be taken on campus. This course may not be taken online in order to receive LAHS credit.

EL27811  PHYSICAL EDUCATION 1  SEMESTER .5 CREDIT  No Fee
EL27911  PHYSICAL EDUCATION 2  SEMESTER .5 CREDIT  No Fee
Prerequisite: 10th - 12th Grade; 9th graders are not eligible for this class
These courses further explore individual and team sports activities with good health practices. Exercises, flexibility, and aerobic conditioning are a part of this class. These courses are structured to provide 10th, 11th, and 12th grade students with knowledge and skills of physical activities offered in the Foundation classes. The fall semester may cover the following activities: soccer, softball, flag football, ultimate Frisbee, swimming, volleyball, ice skating, floor hockey, basketball, and multi-level activities (indoor games). The spring semester may cover the following activities: ice
skating, floor hockey, basketball, badminton, table tennis, pickleball, lacrosse, swimming, rugby, and multi-level activities (indoor games).

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<th>Course Code</th>
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<tbody>
<tr>
<td>EL28811</td>
<td>LIFETIME SPORTS 1</td>
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<td>EL28911</td>
<td>LIFETIME SPORTS 2</td>
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<tr>
<td>EL29011</td>
<td>LIFETIME SPORTS 3</td>
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Prerequisite: The student must have completed Foundation in PE-PE10112 in order to register for this class.

This course is designed for students of all skill levels. The course is structured to develop and improve fundamental skills. The following carryover activities may be offered to all students: bowling, basketball, recreational games, softball, tennis, volleyball, ice skating, golf, pickleball, wall climbing, racquetball, swimming, weight lifting, Pilates, spinning, yoga, aerobic video workouts, instruction on use of cardio equipment and fitness assessments using technology.

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<th>Course Code</th>
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<tr>
<td>EL28011</td>
<td>PHYSICAL CONDITIONING 1</td>
<td>.5</td>
<td>No Fee</td>
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<tr>
<td>EL28111</td>
<td>PHYSICAL CONDITIONING 2</td>
<td>.5</td>
<td>No Fee</td>
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<tr>
<td>EL28211</td>
<td>PHYSICAL CONDITIONING 3</td>
<td>.5</td>
<td>No Fee</td>
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<tr>
<td>EL28311</td>
<td>PHYSICAL CONDITIONING 4</td>
<td>.5</td>
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</table>

◆ Prerequisite: Student must have completed or be enrolled in Foundation in PE-PE10112 in order to register for this class.

This physical conditioning program emphasizes cardiovascular fitness, body weight control, flexibility, strength training, and body development. Heart Rate Monitors will be used daily. Strength training with resistance machines along with cardiovascular training on treadmills, elliptical machines, stationary bikes, and recumbent bikes is emphasized. Testing of fitness levels with state of the art technology, individual fitness portfolios and personal fitness plans will be developed. The students will alternate their cardio and strength workouts.

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<tbody>
<tr>
<td>EL28411</td>
<td>WEIGHT TRAINING 1</td>
<td>.5</td>
<td>No Fee</td>
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<tr>
<td>EL28511</td>
<td>WEIGHT TRAINING 2</td>
<td>.5</td>
<td>No Fee</td>
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<tr>
<td>EL28611</td>
<td>WEIGHT TRAINING 3</td>
<td>.5</td>
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<tr>
<td>EL28711</td>
<td>WEIGHT TRAINING 4</td>
<td>.5</td>
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</table>

◆ Prerequisite: The student must have completed or be enrolled in Foundation in PE-PE10112 in order to register for this class.

This strength and conditioning program emphasizes muscular strength and endurance, speed development, agility, plyometrics, flexibility, and lifelong fitness. Students will learn to develop and track a strength and conditioning program. Fitness and strength levels will be monitored daily. This course is designed for male and female students of all levels and skills.

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<tbody>
<tr>
<td>EL29111</td>
<td>SPORTS MEDICINE/ATHLETIC TRAINING 1</td>
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<tr>
<td>EL29211</td>
<td>SPORTS MEDICINE/ATHLETIC TRAINING 2</td>
<td>.5</td>
<td>No Fee</td>
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</table>

◆ Students learn the fundamentals of athletic training, including prevention, care, and treatment of athletic injuries. Specific emphasis is placed on the areas of anatomy and physiology, first aid, strapping techniques, nutritional guidelines, basic injury identification and treatment, vocabulary, and record keeping. Sports Med II emphasizes athletic injury assessment techniques and focuses on practical application of skills in a lab oriented design. Students must have completed Sports Medicine I to enroll in Sports Medicine II.

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<tbody>
<tr>
<td>EL17011</td>
<td>WEIGHT TRAINING FOR WOMEN 1</td>
<td>.5</td>
<td>No Fee</td>
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<tr>
<td>EL17111</td>
<td>WEIGHT TRAINING FOR WOMEN 2</td>
<td>.5</td>
<td>No Fee</td>
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</tbody>
</table>

◆ Prerequisite: The student must have completed or be enrolled in Foundation in PE-PE10112 in order to register for this class.

This strength and conditioning program emphasizes muscular strength and endurance, speed development, agility, plyometrics, flexibility, and lifelong fitness. Students will learn to develop and track a strength and conditioning program. Fitness and strength levels will be monitored daily. This course is designed for female students of all levels and skills.

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<th>Fee</th>
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<tbody>
<tr>
<td>EL19611</td>
<td>PE/ATHLETICS – S1</td>
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<tr>
<td>EL19612</td>
<td>PE/ATHLETICS – S2</td>
<td>.5</td>
<td>No Fee</td>
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</table>

◆ Prerequisite: The student must be competing in football or wrestling in order to be enrolled in this class.

This class focuses on year-round development of strength and conditioning, athletic skills, and character/leadership development. The strength and conditioning program emphasizes muscular strength and endurance, speed development, agility, plyometrics, and flexibility. This is a year long class. Athletes should enroll in both semesters.
<table>
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<tr>
<th>Date</th>
<th>Credits Earned</th>
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**Progress Toward Graduation**

**FOOTNOTES INFORMATION ON BACK**

**Student Name:** ____________________________________  **ID#:** __________  **Grad Year:** __________

**Standards-Based Assessment (SBA):** P/F  **PARCC Eng:** P/F  **PARCC Math:** P/F  **EOC US History:** P/F

**ENGLISH:**
- English 9
- English 10 or Honors English 10
- English 11 of AP Lang & Comp 11
- English 12 or Humanities or AP Lit & Comp 12

**Social Studies:**
- World Hist/Geog
- NM History
- US History/Geog or AP US History
- Gov't
- Econ

**MATH:**
- Intensified Algebra
- Algebra 1 or Geometry
- Algebra 2 or Algebra 2/Trig
- Trig/Pre-calculus 2
- Elementary Functions or Pre-calculus 1 & AP Calculus
- Geometry
- Algebra 1/II
- Trig/Pre-calculus 2
- or Explorations in Math
- Financial Literacy
- Algebra II
- Algebra II/Trig
- or Trig/Pre-calculus 2
- Pre-calculus 1 & AP Calculus

**SCIENCE:**
- Physics or Honors Physics
- Chemistry or Honors Chemistry
- Biology or Honors Biology

**CAREER CLUSTER** or **WORKPLACE READINESS** or Level 2 LANGUAGE OTHER THAN ENGLISH:
- [ ] PE
- HEALTH
- [ ] Identified Career Cluster

**FINE ARTS:**

**TECHNOLOGY:**

**PRACTICAL ART:**

**ELECTIVES:**

(If full credit of one of the following):
- [ ] online course (Jr, Sr, etc.)
- [ ] honors course
- [ ] dual credit
- [ ] AP course

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To participate in the graduation ceremony, students must have successfully completed 24 credits and have met proficiency on the Standards Based Assessment (SBA), PARCC, and EOC.
Students anticipating applying to the University of California: Freshman applicants will receive a full review of their application if they complete 11 of 13 required courses prior to their senior year with a 3.0 or higher, complete the ACT with writing or SAT reasoning test, plus other requirements. For more information, see http://www.universityofcalifornia.edu/admissions/freshman/requirements/index.html.

Humanities, a 2-block class, may be substituted for Senior English. One block will count toward an English credit; the other will count as an elective credit (not social studies).

Social Studies requirements:
AP U.S. History may substitute for U.S. History. AP U.S. History may be deferred until the 11th grade or 12th grade. Government and/or Economics may be taken in either the 11th or 12th grade. AP Government (full year) will satisfy .5 government credit and .5 elective credit. AP Microeconomics plus AP Macroeconomics will satisfy .5 economics credit and .5 elective credit. Students must complete the entire year of AP Government or AP Micro-Macro to receive the 3 credits in government and/or economics. If a student drops the 2nd semester of either government or economics, then the student will be required to take the regular semester of each class. The curricula for AP and regular classes are not the same.

All students MUST complete 4 years of math to graduate from LAHS.
UNM & NMSU require applicants to complete math through at least Algebra 2. The Arizona university system requires an additional year of math beyond Algebra 2.
Explorations in Math may not meet college requirements. To enroll in this class, the student MUST have a teacher recommendation and be accompanied by a signed parent waiver for Algebra 2.

Advanced Physics or AP Physics may substitute for Physics; Honors Chemistry only may substitute for Chemistry; Honors Biology only may substitute for Biology. Other science classes are considered electives. See the Course Selection Catalog for pre-requisites.

Career Clusters or Workplace Readiness (a special education designation in career education)
Career Clusters are: Agriculture; Architecture & Construction; Arts; Audio-Video Technology & Communications; Business, Management & Administration; Education & Training; Finance; Government & Public Administration; Health Science; Hospitality; Human Services; Information Technology; Law; Public Safety & Security; Manufacturing; Marketing; Sales & Service; Science, Technology, Engineering & Mathematics; Transportation; Distribution & Logistics

If a middle school student takes 1A of a foreign language in 7th grade and 1B of that same foreign language in 8th grade, that student may carry one (1) credit of foreign language to the high school as part of his/her high school transcript. If the student is planning on attending college, the student must complete through Level 2. Level 1 would be an elective. Level 2 and above meets requirements for college. A foreign language is not required for graduation from LAHS, but most colleges expect 2-3 years of the same foreign language.

All students are required to complete both semesters of Foundations in PE.

All students are required to take 1 full credit of the following: a dual credit course (UNM/LA or Northern New Mexico College) or an online course (with principal approval) or an AP level course (if qualified) or an honors class (if qualified).

Digital Art, 2 D/3 D Design, Ceramics, Fine Arts, Photography, Stagecraft, Theater Design, Dance, Theater, Acting, Directing, Music, Video Production. For NMSU, students with no foreign language may substitute 1 year of visual or performing art. Many schools, including University of California schools, require 1 full year of a visual or performing art (2 semesters of the same subject, they don’t have to be within the same school year.) See your guidance counselor for UC-accepted fine arts classes.


Any of the following classes may fulfill the Practical Arts .5 credit requirement: Family & Consumer Sciences, Business, Career and Technical Ed (Building Trades, NJROTC, MAPS, and all technology classes), Music, Drama, Art, Computers, Approved Student Interns, Student Assistants, Photography, or Yearbook.

Career Clusters:

Agriculture
Architecture & Construction
Arts, Audio-Video Technology & Communications
Business, Management & Administration
Education & Training
Finance
Government & Public Administration
Health Science

Hospitality
Human Services
Information Technology
Law, Public Safety & Security (ex: NJROTC)
Manufacturing
Marketing, Sales & Service
Science, Technology, Engineering & Mathematics (STEM)
Transportation, Distribution & Logistics
2018-2019 COURSE SELECTION WORKSHEET

WHERE TO GO FOR HELP

For more information about specific courses talk to a teacher who currently teaches the course, and/or contact the appropriate department chair.

WORKSHEET INSTRUCTIONS

1. Refer to the list of courses for the correct course titles and numbers.
2. Jot down the specific class title and number for the required courses.
3. Be sure to include any deficiencies you have from previous semesters (a deficiency may be the result of a failed course or required courses not being taken in the expected sequence.)
4. Decide your elective choices for each semester.
5. Choose alternate electives. - MANDATORY Freshmen choose six alternates, Sophomores through Seniors choose four electives. (Alternates are courses that you want to take if one or more of your first choices is not available. These may be electives that you plan to take in the future.) Alternate electives cannot be the same as required courses or primary electives.
6. Follow instructions for on-line course selection through PowerSchool by clicking on the Class Registration icon. BRING PRINTED COPY TO ADVISEMENT.

<table>
<thead>
<tr>
<th>COURSE TITLE</th>
<th>COURSE #</th>
<th>Sem. 1</th>
<th>Sem. 2</th>
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