

LA CAÑADA

HIGH SCHOOL



COURSE CATALOG

4463 Oak Grove Drive
La Cañada, California 91011

(818) 952-4205
lchsspartans.net

2018-19

Table of Contents

Click the link to access the page.

Page	Section
4	LCHS Graduation Requirements
5	LCHS /University of California "a-g" Certified Course List
6	UC Freshman Admission Requirements
8	CSU Freshman Admission Requirements
9	Private Colleges and Universities
10	History/Social Science
15	English
19	English Language Development (ELD)
21	Math
28	Science
34	World Languages
41	Visual and Performing Arts
50	Elective Courses
55	Physical Education
62	Special Education
66	Appendices (Time Estimator Worksheet, 4 Year Plan, Administrative Policies, etc.)



La Cañada High School
 4463 Oak Grove Drive, La Cañada Flintridge, California 91011
 T. 818.952.4205 F. 818.952.4214
www.lcusd.net

January 2018

Dear Spartan Students and Parents/Guardians,

In order to successfully select classes for the upcoming academic year, we ask that you review the following information and direct your questions to counselors following both the class presentation and the one-on-one counselor and student appointment. - LCHS Administration

Course Selection Overview:

- The registration process will begin the week of January 29, 2018, and continue throughout the second semester.
- Students will hear presentations from school counselors about the course selection process in their English classes.
- Students will complete a hardcopy of the LCHS Course Selection Contract and the Time Estimator worksheet and submit this to the counselor.
- Students will select classes online in the Aeries portal.
- Students should carefully review the course descriptions and prerequisites to determine whether they have met the recommended preparation for courses.
- Parents and guardians play a key role in the course selection process by providing support and guidance, ensuring their child selects courses in which s/he can be successful.
- Student course selections should be made with care, as student course selection will determine both teacher assignments and the master schedule of classes and requests for change may not be honored due to space limitations.
- Entrance into Honors-level and/or Advanced Placement courses is based upon performance in prior courses, teacher recommendations, and counselor advisement.
- Courses at La Cañada High School are one year in length unless otherwise stated.
- Each student will have a one-on-one appointment with his/her counselor to discuss course selection.

Course Selection Procedure:

- Students will receive instructions for online course selection in an email communication from the LCHS Counseling Department and during the course selection English class presentation.
- All students must select 6 courses except seniors who may select to have a minimum five-period day, provided they are on track for graduation.
- Seniors applying to selective universities are strongly encouraged to take six courses.
- Each student must select alternative choices for his/her elective classes and list these on the Course Selection Contract.
- Students planning to take a summer school class must list the class in which they wish to enroll on the Course Selection Contract. Students may only advance or accelerate in one class, equal to ten units, per summer.
- Teacher Special Education Case Carriers will approve Special Education course requests.
- Students may be required to receive teacher approval, make an application, or participate in audition, reviews, or tryouts in order to qualify for certain classes.

Return to Table of Contents	History/Social Science	English	ELD	Math	Science	World Languages	Visual and Performing Arts	Electives	Physical Education	Special Education
---	--	-------------------------	---------------------	----------------------	-------------------------	---------------------------------	--	---------------------------	------------------------------------	-----------------------------------

LCHS Graduation Requirements

Course	LCHS Graduation Requirements 230 Credits	California State University (CSU) System*	University of California (UC) "a-g" **	Selective Private Universities
English	4 Years	4 Years	4 Years	4 Years
Math	2 Years (1 year must be LC Math 1)	3 Years 4 Years (Recommended)	3 Years 4 Years (Recommended)	4 Years
Social Science	3 Years	2 Years	2 Years	3 Years
Science	2 Years	2 Years Lab Life Sci./Physical Sci. 3 Years (Recommended)	2 Years Lab 3 Years (Recommended) 4 Years (Preferred)	3 Years 4 Years (Recommended)
Fine Arts	1 Year <u>QR</u> 1 Year of a language other than English	1 Year Visual/Performing Arts	1 Year Visual/Performing Arts	1 Year Visual/Performing Arts
World Languages	1 Year <u>QR</u> 1 Year of a Fine Art	2 Years 3 Years (Recommended)	2 Years 3 Years (Recommended)	3 Years 4 Years (Recommended)
Additional Requirements	2 Years P.E. 90 Additional Elective Credits Health requirement	1 Year Academic Elective Minimum	1 Year Academic Elective Minimum	i.e., audition, portfolio, and/or additional essays, writing samples and/or letters of recommendation#
Testing		SAT Reasoning or ACT plus Writing	SAT Reasoning or ACT plus Writing	SAT Reasoning or ACT plus Writing or SAT Subject Tests Check Specific College Web Sites

*UC/CSU ALWAYS recommends more than the minimum requirements.

**It is the responsibility of the parent/guardian and student to verify requirements for individual schools.

#Check each university website application requirements (will vary, especially with regards to specific majors such as Engineering, etc).

Math, Science, and World Languages are sequential courses and placement in subsequent levels is dependent upon student success and completion of the previous level. See course descriptions for details.

Selecting classes for the upcoming year is a highly personalized and important choice. Each student MUST evaluate the unique set of demands upon time and energy necessary to achieve success in academic and extracurricular commitments. Please choose classes that allow you to achieve your short and long term goals, as you define them in concert with your parent(s) or guardian(s), teachers and your counselor. If you seek admission to the most selective universities or colleges, the Counseling Department suggests that you consider taking honors and Advanced Placement classes in the subjects in which you believe you can achieve success. This recommendation is not intended to encourage you to take ALL honors or AP classes, but rather to carefully select classes that best serve your goals.

La Cañada High School/University of California “a-g” Certified Course List 2018-19

a. History 4 years	b. English 4 years	c. Math 3 Yrs/4 Yrs Rec	d. Lab Science 2 Yrs/4 Yrs Rec	e. LOTE* 2 Yrs/3 Yrs Rec	f. VPA 1 year	g. Elective 1 year
World History P	English 1 P	LC Math 1 P	Physics 9	Spanish 1 P	Art Foundations P	Communications
AP Euro	English 2 P	LC Math 1 Adv P	Physics 9 Adv	Spanish 2 P	Adv Art 1 P	Speech/Debate P
Amer History P	English 2 HP	LC Math 2 P	Biology P	Spanish 3 P	Adv Art 2 P	Intro to Computer
AP US History	English 3 P	LC Math 2 Adv P	Biology HP	Spanish 3 H	Beg Ceramics P	H Comp Sci C++
Gov/Econ P	AP Language	LC Math 3 P**	AB Biology	AP Spanish	Adv Ceramics P	H Comp Sci Python
AP Gov/Econ	English 4 P	LC Math 3 Adv P**	Chemistry P	German 1 P	Men's Chorus P	AP Comp Sci Java
	AP Literature	LC Math 4	Chemistry HP	German 2 P	Womens Ensemb P	Psychology P
		Discrete Math P	AP Chemistry	German 3 P	Concert Choir P	AP Psychology
		AP Calc AB	Geology	German 3 HP	Chamber Choir P	Sports Medicine P
		AP Calc BC	Physics P	German 4 HP	Adv Band P	H Soc Science P
		AP Statistics	Physics HP	Korean 1 P	Adv Orch P	Earth Science P
			AP Physics C	Korean 2 P	Jazz Band	PLTW 2 - Intro to Engineering
			AP Env Science	Korean 3 P	AP Music Theory	PLTW 3 - Integrated Computer Manufacturing
			AP Physics 1	Korean 4 HP	Graphic Design P	
				French 1 P	Comm Photo 1 P	
				French 2 P	Comm Photo 2 P	
				French 3 P	LCTV 1- Production P	
				French 3 HP	LCTV 2-Studio	
				French 4 HP	PLTW 1 - Intro to Design	
					Ensemble Theatre P	
					Repertory Theatre P	
					Company Theatre P	
Highlighted Subjects denote an extra grade point in UC GPA					Adv Theatre P	
*World Languages						
**Approval Pending						

UNIVERSITY OF CALIFORNIA

Freshman Admission Requirements

To be eligible for admission to the University of California, students must meet the subject, scholarship, and examination requirements described below.

Subject Requirement

To satisfy the subject requirement, students must successfully complete a specified pattern of high school courses known as the "a-g pattern". Only courses approved by the University of California will satisfy "a-g" requirements. These courses are identified by a "P" or "HP" at the end of the course title on the transcript. For a complete list of the La Cañada courses on the "a-g" list, go to <https://doorways.ucop.edu/list/site> or see page 12 in this Course Catalog.

You must take 15 units of high school courses to fulfill the subject requirement. At least 7 of the 15 units must be taken in your last two years of high school (a unit is equal to an academic year of two semesters of study).

a. History/Social Science (2-Years Required) Two years of history/social science, including one year of world history, cultures and geography; and one year of U.S. history or one-half year of U.S. history and one-half year of civics or American government.

b. English (4-Years Required) Four years of college-preparatory English that include frequent and regular writing, and reading of classic and modern literature. No more than one year of ESL-type courses can be used to meet this requirement.

c. Mathematics (3-Years Required / 4-Year Recommended) Three years of college-preparatory mathematics that include the topics covered in elementary and advanced algebra and two- and three dimensional geometry. Math courses taken in the seventh and eighth grades that LCHS accepts as equivalent may be used to fulfill part of this requirement.

d. Lab Science (2-Years Required / 3-4 Years Recommended) Two years of laboratory science in two of these three foundational subjects: biology, chemistry, physics. Advanced laboratory science classes may be used to fulfill this requirement.

e. Foreign Languages (2-Years Required / 3-4 Years Recommended) of the same foreign language. Courses in languages other than English taken in the seventh and eighth grades that LCHS accepts as equivalent may be used to fulfill part of this requirement.

f. Visual & Performing Arts (VPA) (1-Year Required) A single yearlong approved arts course from a single VPA discipline: dance, drama/theater, music, or visual art.

g. College Preparatory Electives (1-Year Required) One year in addition to those required in "a-f" above, chosen from the following areas: visual and performing arts (non-introductory level courses), history, social science, English, advanced mathematics, laboratory science and language other than English (a third year in the language used for the "e" requirement or two years of another language).

Scholarship Grade Requirement

The scholarship requirement defines the grade point average (GPA) students must attain in the "a-g" subjects previously described. The minimum GPA is 3.0, earned in "a-g" subjects taken in 10th and 11th grades, for California residents.

Honors Courses

The university caps the extra grade points as follows: four units (8 semesters) of certified honors level work: A = 5 points, B = 4 points, C = 3 points. No more than two yearlong UC-approved honors courses taken in the tenth grade may be given extra points. "D" grades do not earn extra points. See the La Cañada High School/University of California "a-g" Certified Course Listed on page 12 in this booklet. UCLA and UCSB do not cap extra grade points.

"D" and "F" Grades: "a-g" courses in which students earn "D" and "F" grades will not be accepted. Grades of "C" or higher in a class cannot be repeated for credit.

Examination/Test Requirement

Every applicant must submit scores from the college entrance examinations described below. Applicants for fall quarter must complete testing in December of senior year in high school. It is up to the student to check with the individual colleges as some campuses will not accept a December test score. **Failure to take the tests or to have scores reported directly from ETS to the admissions office might delay or deny a student's admission to the university.**

Students must submit the following test scores

Either the SAT Reasoning Test or the ACT Assessment plus Writing. The critical reading, mathematics and writing scores on the SAT must be from the **same sitting**. Students who take the ACT plus Writing must report their scores on each section as well as their composite score.

ACT website <http://www.actstudent.org/>

SAT website <http://www.collegeboard.com>

Two SAT Subject Tests in two different areas, chosen from the following: history, literature, mathematics (Level 2 only), science or language other than English. Foreign Language w/ Listening Subject Tests are given only in November. Consult the Application for Undergraduate Admission & Scholarships on: www.universityofcalifornia.edu/admissions/undergrad

CALIFORNIA STATE UNIVERSITIES

Freshman Admission Requirements

FRESHMAN REQUIREMENTS – Most applicants who are admitted meet the standards in each of the following areas:

- Graduation from high school
- Specific high school courses with a grade of “C” or better
- College entrance exams (SAT Reasoning Test or ACT)

SUBJECT REQUIREMENTS – The CSU requires a minimum of 15-unit pattern of courses for admission as a first-time freshman. Each unit is equal to a year of study in a subject area. A grade of “C” or higher is required in each course.

Area	Subject	Years
a	HISTORY/SOCIAL SCIENCE Including 1 year of U.S. History or 1 semester of U.S. History and 1 semester of civics or American Government AND 1 year of social science	2
b	ENGLISH Four years of college preparatory English composition and literature	4
c	MATHEMATICS Including Algebra 1, Geometry, Algebra II (4-years is recommended)	3
d	LAB SCIENCE One year biological science and one year physical science (3 years is recommended)	2
e	LANGUAGE OTHER THAN ENGLISH (the same language) (3-years recommended)	2
f	VISUAL AND PERFORMING ARTS One yearlong approved arts course from a single VPA discipline: dance, drama/theater, music, or visual art	1
g	COLLEGE PREP ELECTIVE Additional year chosen from the University of California “a-g” list	1

GRADES AND TEST SCORES

Your high school grade point average (GPA) is calculated using your grades in all of your college prep “a-g” courses completed after 9th grade and before the start of 12th grade.

COLLEGE ADMISSION

The CSU uses a calculation called an *eligibility index* that combines your high school GPA with either your SAT or ACT scores. Use the *eligibility index* to determine whether you meet the minimum admission standards.*

Higher academic standards for specific majors and/or geographical residence (a nonacademic criteria) are used by some campuses in the admissions process. Consult www.csumentor.com for more information.

IMPACTED MAJORS & CAMPUSES

Across the CSU, higher standards than the basic admission standards are used for high demand majors, referred to as impacted majors. A major may be declared impacted when the campus receives more eligible applicants than can be accommodated in the initial filing period from October 1- November 30. Check the website: www.calstate.edu/impactioninfo.shtml to view the most current information.

Some campuses in the CSU use higher standards for students who are applying as first-time freshmen than the basic admission standards because of the number of qualified students who apply to those campuses during the initial application filing period.

PRIVATE COLLEGES AND UNIVERSITIES

Highly selective private colleges and universities require the most challenging academic course work. Students should complete the highest level possible of sequential courses while maintaining good grades (see Suggested Student Paths). Strong grade point averages and high scores on college entrance tests (SAT Reasoning, ACT plus Writing & SAT Subject Tests) are beneficial. Honors and Advanced Placement courses are strongly recommended for students to take in their areas of strength.

Some private colleges have less stringent requirements and are looking for a variety of student strengths. College catalogues and college websites are helpful in understanding the specific student qualities they are seeking.

Often the number of applicants greatly exceeds the number of spaces available. Involvement in extra and co-curricular activities in and out of school can make a positive difference in the quality of the application. Some examples are athletics, fine arts, community service, leadership involvement, and volunteer work. Colleges are interested to know what students do with their non-school time.

Early in high school, students should begin researching specific college requirements. In this way, students complete the college entrance requirements in a timely manner and can be assured that their application will be competitive.

Although completing the University of California "a-g" requirements will usually satisfy course entry requirements for **most** colleges and universities, **students are strongly encouraged** to refer to the desired college/university catalog and website for specific requirements.

Return to Table of Contents	History/Social Science	English	ELD	Math	Science	World Languages	Visual and Performing Arts	Electives	Physical Education	Special Education
---	--	---------	-----	------	---------	-----------------	----------------------------	-----------	--------------------	-------------------

History/Social Science

Department Chair: Daniel Yoder, dyoder@lcsd.net

The Social Science Department offers a program that helps the student develop the basic skills of a social scientist and an understanding of important social science concepts. The Social Science Department's curriculum meets California's Model Curriculum Standards and implements the History-Social Science Framework. Students must complete three years of Social Science coursework, earning a minimum of 30 units by completing World History or its equivalent, US History or its equivalent, one semester of US Government or its equivalent, and one semester of Economics or its equivalent in grades 10-12. The Social Science Department has created a 9th grade Honors Social Science elective course that explores themes in world regional geography and serves as a preparatory course for advanced coursework. The Social Science Department encourages any interested student who has a love of history, a willingness to work hard, and a strong GPA to consider Advanced Placement classes in grades 10-12. AP classes are the equivalent of college level introductory courses, typically taken during the first or second year of one's university study. The level of academic rigor in these courses is demanding and will emphasize critical reading, writing, and expression. Homework for AP classes is intensive. Parents and students should consider the AP option with a candid assessment of the rigors of the course along with the demands of other academically challenging subjects, athletics, and other extracurricular activities in which the student will participate. Students may enroll in Social Science classes during summer or through pre-approved online schools for both advancement and remediation.

History/Social Science Course List

Grade(s)	Course Number	UC/CSU Transcript Abbreviation	Course Title	Graduation	College Prep	LCHS Hrs Only/UC Hrs	UC/CSU Approved
9	EL9003	H Soc Sci	Honors Social Science	X	X	LCHS only	X
10	WH9006	World Hist P	World History	X	X	N/A	X
10	WH9005	AP EUR HIST HP	AP European History	X	X	LCHS/UC HNRS	X
11	AH9007	Amer Hist P	American History	X	X	N/A	X
11	AH9008	AP AM HIST HP	AP United States History	X	X	LCHS/UC HNRS	X
12	GV9010	GOV/ECON	Government/Economics	X	X	N/A	X
12	EC9018	AP Gov/Econ HP	AP Government and Politics United States	X	X	LCHS/UC HNRS	X
11-12	EL9023	PSYCHOLOGY P	Psychology	X	X	N/A	X

12	EL9020	AP Psych (P)	AP Psychology	X	X	LCHS/UC HNRS	X
----	--------	--------------	---------------	---	---	-----------------	---

Four-Year Course Sequence Options

Performance And Teacher Recommendations Determine Progress	Option	Grade 9	Grade 10	Grade 11	Grade 12
	1	None	World History	American History	Government/Economics
	2	None	World History	AP United States History	AP Government and Politics United States
	3	None	AP European History	AP United States History	AP Government and Politics United States
	4	Honors Social Science	AP European History	AP United States History	AP Government and Politics United States
	5	Honors Social Science	World History	AP United States History	AP Government and Politics United States
	6	Honors Social Science	World History	American History	AP Government and Politics United States
	7	Honors Social Science	World History	AP United States History	Government/Economics
	8	Honors Social Science	AP European History	American History	Government/Economics

LCHS Department Policy:

Entrance into Honors and/or AP courses is based upon performance in prior courses, teacher recommendations, and counselor advisement.

Students must complete their three years of history/social science coursework in order to receive a diploma. Summer school and pre-approved online courses may be taken for both advancement and remediation.

Students enrolled in honors or AP classes who earn a D+ or lower at the semester mark, will be transferred to a grade appropriate college preparatory history/social science class based upon availability.

History/Social Science Courses

EL9003

Honors Social Science

UC/CSU Approved

LCHS Honors Credit Only - Not for University Admission Purposes

10 Units (2 Semesters)

Prerequisite: Grade of "B" or better in 8th grade Social science is recommended and a desire to pursue other AP classes offered by the History/Social Science Department.

Daily Homework: 45 minutes

Honors Social Science is a year-long elective course designed to prepare students for the Advanced Placement classes offered by the Soc. Sci. Dept. Students will develop the study habits and skills required to be successful in AP Classes which are equivalent to freshman college level courses. These skills include: critical thinking/reading, essay writing, analysis of primary source documents, and writing of a document based essay question. First semester will include a thematic survey of key global events and historical trends. During the second semester, students will be introduced to significant trends in medieval and late medieval European history.

WH9006

World History

UC/CSU Approved

10 Units (2 Semesters)

Prerequisite: None

Daily Homework: 20 minutes

Students in World History study major turning points that shaped the modern world, from the late seventeenth century through the present, including the cause and course of the two world wars. They trace the rise of democratic ideas and develop an understanding of the historical roots of current world issues, especially as they pertain to international relations. They extrapolate from the American experience that democratic ideals are often achieved at a high price, remain vulnerable, and are not practiced everywhere in the world. Students develop an understanding of current world issues and relate them to their historical, geographic, political, economic, and cultural contexts. Students consider multiple accounts of events in order to understand

international relations from a variety of perspectives. Students are given a variety of writing prompts that require analysis of primary source documents, critical thinking, and writing to allow for deeper understanding of the content while providing skills in line with new, more rigorous standards.

WH9005

AP European History

UC/CSU Approved

LCHS Honors Credit and Honors Credit for University Admissions Purposes

10 Units (2 semesters)

Prerequisite: None. It is highly recommended that students complete Honors Social Science and earn a grade of an A in order to be successful in AP European History

Daily Homework: 60-90 minutes

This college level course focuses primarily on the political, diplomatic, economic and social issues of European History from the Renaissance to the present. It also emphasizes examining document based essays, critical thinking, and lots of writing. In addition to a basic study of the facts, the goals of the class are to develop an analytical understanding of the principal themes in Modern European and World History and to enable the student to compare historical events. Students will prepare for the Advanced Placement Exam in European History given in May. Dropping this course may not be possible in the fall. Consider the academic rigor carefully before enrolling.

AH9007

American History

UC/CSU Approved

10 units (2 Semesters)

Prerequisite: Grade of D or higher in World History or its equivalent.

Daily Homework: 30 minutes

This course examines the major turning points in American history in the twentieth century. Following a review of the nation's beginnings and the impact of the Enlightenment on U.S. democratic ideals, students build upon the tenth grade study of global industrialization to understand the emergence and impact of new technology and a corporate economy,

including the social and cultural effects. They trace the change in the ethnic composition of American society; the movement toward equal rights for racial minorities and women; and the role of the United States as a major world power. An emphasis is placed on the expanding role of the federal government and federal courts as well as the continuing tension between the individual and the state. Students consider the major social problems of our time and trace their causes in historical events. They learn that the United States has served as a model for other nations and that the rights and freedoms we enjoy are not accidents, but the results of a defined set of political principles that are not always basic to citizens of other countries. Students understand that our rights under the U.S. Constitution are a precious inheritance that depends on an educated citizenry for their preservation and protection. The course may be taught chronologically or thematically, based upon the curricular organization and approach of the teacher. Students are given a variety of writing prompts that require analysis of primary source documents, critical thinking, and writing to allow for deeper understanding of the content while providing skills in line with new, more rigorous standards.

AH9008 **AP United States History**
UC/CSU Approved
 LCHS Honors Credit and Honors Credit for
 University Admissions Purposes
 10 Units (2 semesters)

Prerequisite: None, Recommended Grade of A in previous World History class or B or higher in AP European History

Daily Homework: 40 minutes

This college level course is designed to meet graduation requirements for the study of American History and to prepare students for the May Advanced Placement American History Examination. The course focuses on the central themes and issues of American History, emphasizing critical thinking and writing skills. The course is conducted as a survey course using a college level textbook with supplementary readings (documents, essays, books) on special themes for substantive and thematic coverage. The course strives to strike a balance between factual knowledge and critical analysis. Students will prepare for the AP exam in May. Dropping this course may not be possible in the fall. Consider the academic rigor carefully before enrolling.

GV9010 **Government/Economics**
UC/CSU Approved
 10 units (2 Semesters)

Prerequisite: Grade of D or higher in American History or its equivalent.

Daily Homework: Up to 30 minutes

A year-long course divided into a semester of Government and a semester of Economics.

Government This one-semester course studies the structure and procedures of federal, state and local government and the fundamental themes of government such as federalism, separation of powers, majority and minority rights. Case studies from current issues are used to exemplify government in action. The purpose of this course is to insure that students understand political decision-making and their responsibilities as citizens of the United States of America. The course will examine and debate current issues while studying the functions of our modern day government. No Summer Assignment. Homework = light to moderate.

Economics This course introduces students to the basic concepts of microeconomics and macroeconomics. This course is designed to give seniors an understanding of how our economic system functions in our political environment and in an increasing global economy. Current events and case studies are used to explore topics such as the federal budget and trade deficits.

EC9018 **AP Government and Politics of the United States**
UC/CSU Approved
 LCHS Honors Credit and Honors Credit for
 University Admissions Purposes
 10 Units (2 semesters)

Prerequisite: None. Recommended Grade of A in previous American History class or B or higher in AP United States History

Daily Homework: 60 minutes

A year-long course that blends AP U.S. Government and Politics with an additional focused study of Macroeconomics.

This college level class prepares students for the U.S. Government and Politics Advanced Placement exam

in May with emphasis on American institutions and the forces which influence political decision-making at the federal, state & local level. Students explore and analyze current decisions of Congress, the President and the Supreme Court. Additional Economics study focuses on macroeconomics and the role of the federal government in maintaining a healthy economy. Students learn to use fiscal and monetary policy to maintain a stable global economy. Additional preparation beyond the scope of the course is required for the Macroeconomics AP Exam.

EL9023 **Psychology**
UC/CSU Approved
 10 units (2 Semesters)

Prerequisite: Open to students in 11 and 12 only.
Daily Homework: 10 minutes

The purpose of this course is to provide students with a broad understanding of the diverse areas of psychology. Through the use of hands-on activities, individual and group work, students will develop an understanding of why people behave as they do. Students will also gain insight into their own behaviors. The subject matter will be pertinent to both students' interests and pressing social issues. This course receives elective credit and does not qualify to meet the social science graduation requirement.

EL9020 **AP Psychology**
UC/CSU Approved

LCHS Honors Credit and Honors Credit for
 University Admissions Purposes

10 Units (2 semesters)

Prerequisite: Desire to take a university level introductory psychology course, willingness to work hard, and a strong GPA. Open to students in grade 12 only.

Daily Homework: 20 minutes

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice.

Return to Table of Contents	History/Social Science	English	ELD	Math	Science	World Languages	Visual and Performing Arts	Electives	Physical Education	Special Education
---	--	---------	-----	------	---------	---------------------------------	--	-----------	------------------------------------	-----------------------------------

English

Department Chair: Ben Powers, bpowers@lcusd.net

All students must be enrolled in an English class every semester and must earn a total of 40 units of English credit in order to graduate. All classes are year long classes. Courses will comply with the California state standards for English Language Arts, and for Advanced Placement courses taken in the junior and senior years, the curriculum framework written by the College Board. Completion of four years of English and the demonstration of English competency through passing an on-demand writing sample satisfies the LCUSD research and writing graduation requirement. In LCHS English classes, students will complete a variety of language arts tasks in order to create a firm foundation in language skills, composition, and literature by reading and analyzing fiction and nonfiction pieces. Writing accounts for 50% of the grade in all required English classes. English courses may be taken in summer or through pre-approved, accredited online schools only for remediation, not advancement.

English Course List

Grade(s)	Course Number	UC/CSU Transcript Abbreviation	Course Title	Graduation	College Prep	LCHS Hnrs Only/UC Hnrs	UC/CSU Approved
9	EN2002	ENGLISH 1 P	English 1	X	X	N/A	X
10	EN2006	ENGLISH 2 P	English 2	X	X	N/A	X
10	EN2009	ENGLISH 2 HR P	English 2 H	X	X	LCHS ONLY	X
11	EN2014	ENGLISH 3 P	English 3	X	X	N/A	X
11	EN2018	AP EngLang&Comp	AP English Language and Composition	X	X	LCHS/UC HNRS	X
12	EN2015	ENGLISH 4 P	English 4	X	X	N/A	X
12	EN2019	AP Eng Lit&Comp	AP English Literature and Composition	X	X	LCHS/UC HNRS	X

Four-Year Course Sequence Options

	Option	Grade 9	Grade 10	Grade 11	Grade 12
Performance and Teacher Recommendations Determine Progress	1	English 1 P	English 2 P	English 3 P	English 4 P
	2	English 1 P	ENGLISH 2 HR P	AP English Language and Composition	AP English Literature and Composition
	3	English 1 P	English 2 P	AP English Language and Composition	AP English Literature and Composition
	4	English 1 P	English 2 P	AP English Language and Composition	English 4 P
	5	English 1 P	English 2 P	English 3 P	AP English Literature and Composition
	6	English 1 P	ENGLISH 2 HR P	AP English Language and Composition	English 4 P
	7	English 1 P	ENGLISH 2 HR P	English 3 P	English 4 P

LCHS Department Policy:

Entrance into Honors and/or AP courses is based upon performance in prior courses, teacher recommendations, and counselor advisement.

Students must complete their English courses at LCHS. Summer school and pre-approved online courses may be taken for remediation only.

Students enrolled in honors or AP classes who earn a D+ or lower at the semester mark, will be transferred to a grade appropriate college preparatory English class based upon availability.

English Courses

EN2002 **English 1 P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: None

Daily Homework: 30 minutes

English 1 is a foundational year that is designed to provide students with the necessary skills for future success in English Language Arts. The course will introduce students to in-depth annotation, argumentation, research, as well as literary and rhetorical analysis. Students are expected to differentiate between analysis and summary, participate in class and group discussions, and overall, to become more critical readers, speakers and writers.

EN2006 **English 2 P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Grade of D or higher in English 1 P

Daily Homework: 30 minutes

World literature is an intensive study of comparative themes from various cultures that is designed to broaden the students' humanities and literary perspective. The course will provoke critical thought, engagement, and appreciation for the exigencies of the human condition. This class will strengthen skills such as close reading strategies, literary analysis, argumentation, and research. Students are expected to convey their thoughts in a competent and substantive manner through multiple on-demand writing assignments, formal essays, verbal communication and presentations. The course will ultimately reflect a scholarly pursuit that requires critical thinking and demands an awareness of the historical and contemporary world.

EN2009 **English 2 HR P**
UC/CSU Approved
 LCHS Honors Credit Only - Not for University Admission Purposes
 10 Units (2 Semesters)

Prerequisite: Recommended Grade of B or higher in English 1 P and teacher recommendation.

Daily Homework: 40 minutes

Based upon the same curriculum framework at English 2 P, English 2 HR P explores in greater depth the topics of world literature through more frequent and rigorous reading and writing assignments. See course description for English 2 P for broad curricular themes and content and skill growth targets.

EN2014 **English 3 P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Grade of D or higher in English 2 or English 2 HR P

Daily Homework: 30 minutes

American Literature is an intensive study of the dynamic nature of the American landscape that is designed to give students a more in-depth understanding of what it means to be an American. The course will cover Native-American oral myths to more contemporary works focusing on the historical context in which they were created. Students will be expected to understand rhetorical elements and how they contribute to the overall purpose of the piece. This study will contribute to their own development of oral and written argument. The course will culminate in students being able to synthesize literature, philosophy, and history of the United States while answering the overarching question: How does the literature we create reflect the changing values of Americans?

EN2018 **AP English Language and Composition**
UC/CSU Approved
 LCHS Honors Credit and Honors Credit for University Admissions Purposes
 10 Units (2 semesters)

Prerequisite: None, Recommended Grade of a grade of an A in English 2 P or a grade of B or higher in English 2 HR P **Daily Homework:** 45-60 minutes

AP English Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and in becoming skilled writers who

compose for a variety of purposes. In preparation for the College Board Advanced Placement exam, students will analyze the techniques of argument and persuasion and how authors employ rhetorical strategies to achieve purpose. Students study a variety of nonfiction texts and will practice the art of constructing meaningful arguments by using examples, analogies, and informed sources to document their positions and use citations accurately.

EN2015 **English 4 P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Grade of D or higher in English 3 P or AP Language and Composition

Daily Homework: 30-45 minutes

English 4 is a rigorous survey course in classic and contemporary literature. Seniors will read a variety of texts representing the genres of novel, /short story, drama, poetry, and non-fiction. The literature will provide the content/reading foundation from which students will continue to craft their listening, speaking, and writing (critical thinking) skills. A major feature of English 4 is the year-long senior project. The aim of this project is to promote autonomy, mastery, and purpose in the learning process. Seniors choose a topic to research and explore through experiential application, culminating in a presentation delivered at the end of the year.

EN2019 **AP English Literature and Composition**
UC/CSU Approved
 LCHS Honors Credit and Honors Credit for University Admissions Purposes
 10 Units (2 semesters)

Prerequisite: Recommended Grade of a B or higher in AP Language and Composition or English 3 P with a grade of A.

Daily Homework: 60 minutes

AP English Literature and Composition focuses on reading, analyzing, discussing, and writing about challenging, imaginative works of literary merit. This course builds upon the foundation from previous years; much of the coursework involves in-depth style analysis in the literary genres of poetry, novels, drama, and short stories. Selections explore the major periods of literature and will consider how the historical and social context influences the literature as well as study the development of universal themes. As we delve into a work's complexity we will look at questions like: What multiple meanings can be derived from this literature? How do the various themes, foci, and styles of literature change throughout history? We will learn to recognize and write effectively about a variety of literary techniques. Our studies aim to help you become effective writers, critical thinkers, in-depth analyzers, attentive readers, and engaging presenters. AP English Literature and Composition is a skills-based class with an emphasis on timed writing and literary device analysis. Much of this analysis focuses on components such as tone, diction, syntax, structure, the use of detail, language, imagery, figurative language, and narrative perspective. There are various writing assignments (expository, personal, persuasive, creative, imitative), close reading analysis, grammar and vocabulary activities, as well as several creative and interactive projects. Although it is not required, the expectation is for students to take the AP English Literature and Composition exam in May.

Return to Table of Contents	History/Social Science	English	ELD	Math	Science	World Languages	Visual and Performing Arts	Electives	Physical Education	Special Education
---	--	-------------------------	---------------------	----------------------	-------------------------	---------------------------------	--	---------------------------	------------------------------------	-----------------------------------

English Language Development (ELD)

ELD Lead Teacher, 9-12: Victor Torres, vtorres@lcsd.net

English language courses are available for students whose first language is other than English. Students are tested upon entering LCHS and each year thereafter to determine their level. Students are placed in the various level courses based on proficiency in reading, writing, listening, and speaking. Students may continue in an ELD level for more than one year. Placement to the next level is based on students' performance and assessment results.

ELD Course List

Grade(s)	Course Number	UC/CSU Transcript Abbreviation	Course Title	Graduation	College Prep	LCHS Hrs Only/UC Hrs	UC/CSU Approved
9-12	EN2108	N/A	English Language Development 1	X	N/A	N/A	N/A
9-12	EN2109	N/A	English Language Development 2	X	N/A	N/A	N/A
9-12	EN2110	N/A	English Language Development 3	X	N/A	N/A	N/A

LCHS Department Policy:

Placement into ELD courses will be based upon a State English Language Proficiency examination and teacher review.

ELD Courses

EN2108 **English Language Development 1**
10 Units (2 Semesters)

Prerequisite: Level I placement on the CELDT
Daily Homework: 20 minutes

ELD 1 is a course that focuses on English survival skills and academic content vocabulary. This course is designed for students who have little or no background in the English Language. The course gives students practical English skills in listening, speaking, reading, and writing through structured English immersion.

EN2109 **English Language Development 2**
10 Units (2 Semesters)

Prerequisite: Level II placement on the CELDT
Daily Homework: 20 minutes

ELD 2 is a course for students with limited background in the English language. The course is designed to build upon the student's previous knowledge of English in the four skill areas: listening, speaking, reading, and writing.

EN2110 **English Language Development 3**
10 Units (2 Semesters)

Prerequisite: Level III placement on the CELDT

Daily Homework: 20 minutes

ELD 3 is a course for intermediate English language learners who have had some formal instruction in English. Reading and writing skills will continue to develop through literature-based activities. Academic content vocabulary building, grammar, and language structure will be stressed to help students be successful in their history, math, science, and elective courses.

Return to Table of Contents	History/Social Science	English	ELD	Math	Science	World Languages	Visual and Performing Arts	Electives	Physical Education	Special Education
---	--	-------------------------	---------------------	----------------------	-------------------------	---------------------------------	--	---------------------------	------------------------------------	-----------------------------------

Math

Department Chair: Cynthia Calm, ccalm@lcsd.net

All students must be enrolled in a math class for a minimum of two years, earning a minimum of 20 credits of math credit in order to graduate. In addition, state legislation and LCUSD Board policy require students to pass one year of Algebra as part of these 20 credits and this requirement is satisfied by passing Math 1. All classes are year-long courses. Courses comply with the California state standards for mathematics.

La Cañada High School math classes have been organized in a traditional pathway and reflect the changes in California math instruction brought about by the implementation of new, more rigorous standards. These higher mathematics standards specify the mathematics that all students should study in order to be college and career ready. Each of the high school mathematics classes will embed the Standards for Mathematical Practice into the course curriculum, which will complement the content standards so that students increasingly engage with the subject matter as they grow in mathematical maturity. The Standards for Mathematical Practice (SMPs) include the following mathematical practices: make sense of problems, reason abstractly and quantitatively, construct viable arguments and critique the reasoning of others, model mathematics, use appropriate tools strategically, attend to precision, look for and make use of structure, and look for and express regularity in repeated reasoning. La Cañada mathematics classes, beginning in 2015-16, will employ new course titles to reflect the shift to these new standards. LC Math 1, for instances, is LCHS' new standards aligned Algebra 1 class, while LC Math 1 Advanced is a course based upon Algebra I and will include concepts taught in Algebra II and Pre-Calculus. Math courses may be taken in summer or through pre-approved, accredited online schools for advancement and remediation. Since summer and online math courses differ in pace, sequence, and depth of instruction, students and their families should consider wisely acceleration in mathematics. Students taking math during the summer may not enroll in the advanced level of the next in sequence class.

The preparations for classes are recommended to enable each student to reach maximum success in mathematics. Because of the sequential nature of mathematics, a lack of skills preparation frequently leads to frustration and failure in subsequent courses. Students are to check each course for recommended preparation and consult with their counselor if they are unsure about their ability to be successful in courses. Students should also consider the rigorous content and workload of both higher level math classes and honors and AP classes prior to enrolling. Since LC Math 2 Advanced, LC Math 3 Advanced, and Pre-calculus Honors HP include topics which are not taught in LC Math 2, LC Math 3, and Pre-calculus P, students should be advised that entering an honors class after successful completion of a prior non-honors class could still be challenging because the honors curriculum builds upon itself from one course to the next. New students entering LCHS may be given a diagnostic or placement test by the Department to help determine their appropriate instruction. In addition to a rigorous college preparatory math program, the faculty of mathematics department offers Advanced Placement courses in Calculus and Statistics and encourages students to consider enrolling in these demanding courses. Homework for AP classes is intensive. Parents and students should consider AP course enrollment with a candid assessment of the rigors of the course along with the demands of other academically challenging subjects, athletics, and other extra-curricular activities in which the student will participate.

Homework outside of the classroom is critical to a student's success in the course in which s/he is enrolled. For each course, the Mathematics Department has determined the average amount of time that an appropriately prepared student needs to spend on daily homework (HW).

Math Course List

Grade(s)	Course Number	UC/CSU Transcript Abbreviation	Course Title	Graduation	College Prep	LCHS Hnrs Only/UC Hnrs	UC/CSU Approved
9	MA5031	Algebra I	Math 1	X	X	N/A	X
9	MA5032	Algebra I Advanced	Math 1 Advanced	X	X	LCHS ONLY	X
10	MA5033	GEOMETRY P	LC Math 2	X	X	N/A	X
10	MA5034	GEOM HR P	LC Math 2 Advanced	X	X	LCHS ONLY	X
11	MA5038	Algebra II/Trig	LC Math 3	X	X	N/A	X
11	MA5039	Algebra II/Trig Advanced P	LC Math 3 Advanced	X	X	LCHS ONLY	X
11-12	MA5036	LC Math 4	LC Math 4	X	X	N/A	X
11-12	MA5035	ADV MATH TOP P	Advanced Math Topics*	X	X	N/A	X
11-12	MA5011	PRE-CALC P	Pre-Calculus*	X	X	N/A	X
11-12	MA5012	PRECALC HR HP	Pre-Calculus (H)*	X	X	LCHS/UC HNRS	X
11-12	MA5013	AP Calc AB HP	AP Calculus AB	X	X	LCHS/UC HNRS	X
11-12	MA5014	AP Calc BC HP	AP Calculus BC	X	X	LCHS/UC HNRS	X
11-12	MA5015	AP Statistic HP	AP Statistics	X	X	LCHS/UC HNRS	X
12	MA5037	Discrete Math P	Discrete Mathematics P	X	X	N/A	X

* - Academic year 2017-18 will be the last year these courses will be offered. They have been replaced by the courses LC Math 1-4 college preparatory or advanced.

Four-Year Course Sequence Options

	Option	Grade 9	Grade 10	Grade 11	Grade 12
Performance and Teacher Recommendations Determine Progress	1	LC Math 1 P	LC Math 2 P	LC Math 3 P	LC Math 4 P
	2	LC Math 1 P	LC Math 2 P	LC Math 3 P	Discrete Math P
	3	LC Math 1 P	LC Math 2 P	LC Math 3 P	AP Statistics
	4	LC Math 1 Advanced P	LC Math 2 Advanced P	LC Math 3 Advanced P	AP Calculus AB/BC
	5	LC Math 1 P	LC Math 2 Advanced P*	LC Math 3 Advanced P	AP Calculus AB/BC
	6	LC Math 1 P	LC Math 2 Advanced P*	LC Math 3 Advanced P	AP Statistics
	7	LC Math 1 P	LC Math 2 Advanced P*	LC Math 3 P	AP Statistics
	8	LC Math 1 P	LC Math 2 Advanced P*	LC Math 3 P	Discrete Math P
	7	LC Math 1 P	LC Math 2 Advanced P*	LC Math 3 P	LC Math 4 P

* - In order to move from the college preparatory pathway to the advanced pathway, students must take the LC Math 1 Advanced Topics course during summer through the La Cañada Educational Foundation Summer School.

LCHS Department Policy:

Entrance into Honors and/or AP courses is based upon performance in prior courses, teacher recommendations, and counselor advisement.

Math courses may be taken in summer or through pre-approved, accredited online schools for advancement and remediation.

Student accelerating during summer in math may not enroll in the next in sequence honors level class.

Students enrolled in honors or AP classes who earn a D+ or lower at the semester mark, will be transferred to a grade appropriate college preparatory math class based upon availability.

Math Courses

MA5031 **LC Math 1 P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Completion of Math 8 or its equivalent.

Daily Homework: 30-45 minutes

This is the first course in a common core based college preparatory math sequence. This course builds on and deepens the conceptual understanding of linear function from CC Math 8. The main purpose of LC Math 1 is to develop students' fluency with linear, quadratic and exponential functions. The critical areas of instruction involve deepening and extending students' understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend. In addition, students engage in methods for analyzing, solving, and using exponential and quadratic functions and equations. Some of the overarching ideas in the LCM1 course include: the notion of function, solving equations and inequalities, rates of change and growth patterns, working with sequences, understanding absolute value relationships, graphs as representations of functions, and modeling. Since the Standards for Mathematical Practice will be woven throughout each unit of the course, students will analyze each other's work, make and prove conjectures, use tools to experiment and validate conclusions, and problem solve.

MA5032 **LC Math 1 Advanced P**
UC/CSU Approved
LCHS Honors Credit
 10 units (2 semesters)

Prerequisite: Recommended Grade of an A in CC Algebra 8 or a grade of B or higher in CC Algebra 8 Advanced.

Daily Homework: 30-45 minutes

This is the first course in an accelerated common core based college preparatory math sequence. This course builds on, and deepens, the conceptual understanding of linear function from CC Math 8. As the first course in an accelerated three-year progression, it will include standards traditionally

taught in Algebra 1, Algebra II, and Pre-Calculus. Successful completion of LC Math 1 (LCM 1) Advanced positions students to reach advanced math classes, including Calculus, by the senior year. The main purpose of LC Math 1 Advanced is to develop students' fluency with linear (including piecewise), quadratic, exponential and polynomial functions. The critical areas of instruction involve deepening and extending students' understanding of linear and exponential relationships by contrasting them with each other. Data and trend lines/curves will be used to introduce students to various classes of functions, and the strength and suitability of fit will be examined through the analysis of residuals. Matrices will be used to extend and apply linear relationships. Quadratic functions, including roots, local extrema, and end behavior, will be fully analyzed and extended to polynomial functions.

In addition, students will engage in methods for analyzing, solving, and using exponential and quadratic functions, with real and non-real solutions. Some of the overarching ideas in the LCM1 Advanced course include: the notion of function, solving equations and inequalities, rates of change and growth patterns, working with sequences, matrices, understanding absolute value relationships, graphs as representations of functions, and modeling. Since the Standards for Mathematical Practice will be woven throughout each unit of the course, students will analyze each other's work, make and prove conjectures, use tools to experiment and validate conclusions, and problem solve.

MA5033 **LC Math 2 P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Recommended Grade of C or higher in LC Math 1 or its equivalent

Daily Homework: 45 minutes

This is the second course in a common core based college preparatory math sequence. The fundamental purpose of this course is to formalize and extend students' geometric experiences from the middle grades. This course includes standards from the

conceptual categories of Geometry and Statistics and Probability.

In this Geometry course, students explore more complex geometric situations and deepen their explanations of geometric relationships, presenting and hearing formal mathematical arguments. Important differences exist between this course and the historical approach taken in geometry classes. As an example, transformations are emphasized in this course. Instruction will focus on six key areas: (1) establishing criteria for congruence of triangles based on rigid motions; (2) establishing criteria for similarity of triangles based on dilations and proportional reasoning; (3) informally developing explanations of circumference, area, and volume formulas; (4) applying the Pythagorean Theorem to the coordinate plane; (5) prove basic geometric theorems; and (6) extending work with probability. Some of the overarching ideas in the LCM2 course include: (1) the idea of an axiomatic system (e.g., that accepted truths are used to prove other truths), (2) the idea of a viable argument, (3) the idea of definitional thinking, (4) the complementary roles played by synthetic and analytic geometry, and by inductive and deductive reasoning, and (5) the usefulness of Geometry for analyzing the world around us. The Standards for Mathematical Practice will play a prominent role in the course, with students continually developing their ability to reason and argue. Students will solve complex problems, and use tools such as compasses, protractors, and dynamic geometry software.

MA5034 **LC Math 2 Advanced P**
UC/CSU Approved
 LCHS Honors Credit Only - Not for University
 Admission Purposes
 10 units (2 semesters)

Prerequisite: Recommended Grade of a B or higher in LC Math 1 Advanced and teacher recommendation or grade of an A in LC Math 1 and completion of the summer Advanced Topics class with an A and teacher recommendation.

Daily Homework: 30-45 minutes

This is the second course in an accelerated common core based college preparatory math sequence. This course focuses on the exploration of geometric concepts through visual, numerical and analytic lenses. Applications that utilize algebraic problem solving developed in LC Math 1 Advanced will be included throughout the course to reinforce and

strengthen students' proficiency on these topics prior to enrollment in LC Math 3 Advanced. Plane Euclidean geometry is students both synthetically (without coordinates) and analytically (with coordinates) throughout the course, with an emphasis on the proof of theorems used to describe relationships that can be reasoned inductively.

After a brief introduction to the language, notation and reasoning skills that define geometry, students use a transformational approach to define congruence of figures and apply that congruence specifically to triangles. Students use this knowledge to analyze the characteristics of quadrilaterals and angles formed when parallel lines are cut by a transversal. Non-rigid transformations are used to introduce the concept of a dilation, which allows students to define similar figures, including circles. After an exploration of the arcs formed by various angles inscribed in a circle, students use right triangles to develop definitions for the trigonometric functions and unit circle. Circular trigonometry is investigated using the sine and cosine functions and their behavior over various angles. Vectors, which were used to define translations earlier in the course, are applied to real-world problems involving directional forces and the Law of Sines and Law of Cosines is used to find the magnitude and direction of resultant vectors. The course concludes with an exploration of various locus points, both inside a triangle and in the plane (which lead to the derivation of the equations of conic sections), and a deepening of understanding related to three-dimensional figures that were introduced in 8th grade, including the use of Cavalieri's Principle to calculate the volume of a three-dimensional figure.

MA5038 **LC Math 3 P**
UC/CSU Approval Pending
 10 units (2 semesters)

Prerequisite: Grade of a C or higher in LC Math 2 or its equivalent

Daily Homework: 45 minutes

Building on their work with linear, quadratic, and exponential functions, students extend their understanding of functions to include logarithmic, polynomial, rational, and radical functions in LC Math 3. This course includes standards from the conceptual categories of Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability. Students work closely with the expressions that define the functions, competently manipulate algebraic expressions, and continue to expand and hone their

abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms.

Some of the overarching ideas in the LCM3 course include: (1) relate arithmetic of rational expressions to arithmetic of rational numbers; (2) expand understandings of functions and graphing to include trigonometric functions; (3) synthesize and generalize functions and extend understanding of exponential functions to logarithmic functions; and (4) relate data display and summary statistics to probability and explore a variety of data collection methods. In addition to these central math concepts, students in LC Math 3 will also explore and model concepts verbally, numerically, algebraically, and graphically, construct viable arguments, engage in definitional thinking, continue to engage in inductive and deductive reasoning as it relates solving problems, making patterns, and applying math learning to real world problems, and the usefulness of Algebra for analyzing the world around us. The Standards for Mathematical Practice will play a prominent role in the course, with students continually developing their ability to reason and argue. Students will solve complex problems, and use tools such as graphing calculators and appropriate technology.

MA5039 **LC Math 3 Advanced P**
UC/CSU Approval Pending
 LCHS Honors Credit and Honors Credit for
 University Admissions Purposes
 10 units (2 semesters)

Prerequisite: Recommended Grade of a B or higher in LC Math 2 Advanced

Daily Homework: 60 minutes

This is the third course in an accelerated three-year common core based college preparatory math sequence. The course will be composed of topics relating to Algebra II, Trigonometry, Pre-Calculus, and Statistics. As an advanced course, it will approach these topics with a relatively high level of rigor and extend beyond learning that occurs in LC Math 3. Successful completion of LC Math 3 Advanced positions students to reach advanced math classes, including Calculus, by the senior year.

The main purpose of LC Math 3 Advanced is to formalize and extend students' algebraic experiences from earlier courses. The critical areas of instruction focus on the following key areas: (1) working with inverse functions and related equations, (2) understanding and solving exponential equations with

logarithms, (3) working with rational functions and related equations, (4) understanding circular trigonometry, (5) using other trigonometric functions such as tangent secant, etc., (6) working with applied matrices and polar functions and (7) applying statistics to real world problems. The Standards for Mathematical Practice will play a prominent role in the course, with students continually developing their ability to reason and argue. Students will solve complex problems, and use tools such as graphing calculators and appropriate technology.

MA5013 **AP Calculus AB P**
UC/CSU Approved
 LCHS Honors Credit and Honors Credit for
 University Admissions Purposes
 10 units (2 semesters)

Prerequisite: Recommended Grade of B or higher in Pre-Calculus or LC Math 3, or grade of C or higher in Pre-Calculus Honors or LC Math 3 Advanced, and teacher recommendation.

Daily Homework: 45 minutes

Calculus AB is equivalent to the first semester of college calculus, with a short review of pre-calculus topics. The serious student will be prepared to take the Advanced Placement test in Calculus AB. The course reviews analytic geometry and limits. The theory and techniques of differentiation and integration of polynomial, trigonometric, and transcendental functions are covered, and applications are included for both integration and differentiation. Graphing calculators (TI-83, 83+, or 84) are strongly recommended as the student will be taught to use the calculator as a support for analysis, and graphing calculators are required for the AP exam.

MA5014 **AP Calculus BC P**
UC/CSU Approved
 LCHS Honors Credit and Honors Credit for
 University Admissions Purposes
 10 units (2 semesters)

Prerequisite: Recommended Grade of B+ or higher in Pre-Calculus Honors or LC Math 3 Advanced and teacher recommendation.

Daily Homework: 45 minutes or more

Calculus BC is equivalent to the first two semesters of college calculus. Students will be prepared to take the Advanced Placement test in Calculus BC. The main

topics of study are limits, derivatives, integrals, and series. Students will analyze rectangular, polar, and parametric functions. Graphing calculators (TI-83, 83+, or 84) are strongly recommended as graphing calculators are required for the AP exam.

MA5015 **AP Statistics HP**
UC/CSU Approved
 LCHS Honors Credit and Honors Credit for
 University Admissions Purposes
 10 units (2 semesters)

Prerequisite: Recommended Completion of Algebra 2/Trigonometry or Math 3. AP Statistics may be taken concurrently with Pre-calculus, AP Calculus AB or BC, AP Computer Science JAVA, or Discrete Math.

Daily Homework: 30 minutes

This course is equivalent to a beginning college, non-calculus-based statistics course. Students will be prepared to take the Advanced Placement Statistics exam in May. AP Statistics covers descriptive statistics, regression, experiment and survey design, and inference through statistical inference. A calculator with statistical menus and graphing capabilities is required on the AP exam. The TI-83+/84+ graphing calculator is used extensively in this course and is highly recommended. This course includes considerable amount of reading and writing, and emphasizes written justification of conclusions rather than mechanics. AP Statistics is essential preparation for college majors in the social sciences, political sciences, health sciences, and business and economics, as well as science, engineering, and mathematics majors.

MA5036 **LC Math 4 P**
UC/CSU Approved (Pending)
 10 units (2 semesters)

Prerequisite: Recommended Grade of B or higher in LC Math 3 or its equivalent.

Daily Homework: 30 - 45 minutes

This course is designed to expand on the mathematical content in LC Math 3 and prepare the serious student of mathematics for the study of calculus. In addition to the review of algebra, which is integrated throughout the course, the student will study advanced mathematical concepts in equations and inequalities as well as the analysis of functions and techniques for graphing polynomial, rational, radical, algebraic, exponential, logarithmic, and trigonometric functions; conics; polar coordinates; discrete topics (matrices, vectors, recursion, and combinatorics); limits of functions; and an introduction to differential and integral calculus. The use of graphing calculators (model TI-83, 83+, or 84) is strongly recommended

MA5037 **Discrete Math P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Recommended Grade of B or higher in LC Math 3.

Daily Homework: 15 minutes

This course is a critical thinking course that focuses on the application of Discrete Math topics to the social, sciences as well as to the natural and physical sciences. First semester topics include election theory, fair division, matrix operations and applications, game theory, and codes. Second semester topics include graph theory and applications, combinatorics, probability and statistics, recursion, and series. This is a one year course. Students may begin this course at second semester since the topics are not continuous.

Return to Table of Contents	History/Social Science	English	ELD	Math	Science	World Languages	Visual and Performing Arts	Electives	Physical Education	Special Education
---	--	-------------------------	---------------------	----------------------	-------------------------	---------------------------------	--	---------------------------	------------------------------------	-----------------------------------

Science

Department Chair: Laura Wheeler, lwheeler@lcusd.net

The Science Department offers courses that help students develop skills rooted in laboratory experimentation, claim or hypothesis creation, evidence gathering and data analysis, and justified by effective writing of findings from lab work. Students will be asked to examine phenomena in each course and engage in answering scientifically worthwhile, open-ended questions, and to be responsible for sense making of the content concepts with which they will engage. Like the curriculum content of other disciplines in English and math, science instruction, course sequencing, graduation requirements, and course content have been significantly influenced by LCHS' adoption of the Next Generation Science Standards (NGSS). This means that in each science course, students will engage with curriculum that is constructed in three dimensions, with students actively working with science and engineering practices, explaining their learning with cross cutting concepts, like cause and effect, and focusing on core disciplinary ideas. While courses will continue to be taught in a survey model, the courses will intentionally focus on fewer content concepts, and engage with these in greater depth and with the inquiry methods used by scientists working in the various sub-disciplines in business, for government, and at universities and colleges. In addition to a rigorous college preparatory science program, the science faculty offers a wide range of Advanced Placement courses and encourages students to consider enrolling in these demanding courses. Homework for AP classes is intensive. Parents and students should consider AP course enrollment with a candid assessment of the rigors of the course along with the demands of other academically challenging subjects, athletics, and other extra-curricular activities in which the student will participate.

With the implementation of NGSS course sequencing for the 2017-18 academic year, LCHS will implement a new NGSS three course sequence that will increase the graduation requirements for students in the graduating class of 2021 and after. Students in the class of 2021 and following will be required to take three science courses in order to receive a LCUSD diploma. Students in the graduating classes of 2018-2020 will be held to the graduation requirements in place upon their beginning of high school, which means that they will be required to complete one life science class and one physical science class in order to earn a diploma from LCUSD. All college and/or university-bound students should consider the University of California recommendation that students complete three years of science education that provides fundamental knowledge in biology, chemistry, or physics. Competitive private colleges and universities recommend three or more years of science instruction.

Science Course List - For Students in the Classes of 2019-2020

Grade(s)	Course Number	UC/CSU Transcript Abbreviation	Course Title	Graduation	College Prep	LCHS Hnrs Only/UC Hnrs	UC/CSU Approved
10-12	SC8023	Earth Science	Earth Science	X	X	N/A	X*
10-12	SC8021	CHEMISTRY 1 P	Chemistry 1	X	X	N/A	X
10-12	SC8110	Chemistry (H)	Chemistry HP	X	X	LCHS Only	X
10-12	SC8020	BIOLOGY 1 P	Biology 1 P	X	X	N/A	X
10-12	SC8042	Biology HP	Biology (H)	X	X	LCHS Only	X
10-12	SC8022	GEOLOGY 1 P	Geology	X	X	N/A	X
11-12	SC8025	Physics 1 P	Physics 1	X	X	N/A	X
11-12	SC8030	AP BIOLOGY HP	AP Biology	X	X	LCHS/UC HNRS	X
11-12	SC8031	AP CHEM HP	AP Chemistry	X	X	LCHS/UC HNRS	X
11-12	SC8033	AP Phys C HP	AP Physics C**	X	X	LCHS/UC HNRS	X
11-12	SC8034	AP ENVIR SCI P	AP Environmental Science	X	X	LCHS/UC HNRS	X
11-12	SC8043	AP Physics 1	AP Physics 1	x	x	LCHS/UC HNRS	Pending

* - Earth Science is an approved UC/CSU course, but as a science elective, not as a laboratory science class.

** - AP Physics C requires students to be concurrently enrolled in AP Calculus AB or BC or have completed the equivalent math course.

Science Course List - For Students in the Class of 2021 and After

Grade(s)	Course Number	UC/CSU Transcript Abbreviation	Course Title	Graduation	College Prep	LCHS Hnrs Only/UC Hnrs	UC/CSU Approved
9	SC8025	Physics 1 P	Physics 1	X	X	N/A	X
9	SC8026	Physics 1 P	Physics 1 Advanced	X	X	**No Additional Honors Point Given	X
9-12	SC8023	Earth Science	Earth Science	X	X	N/A	X*
10	SC8021	CHEMISTRY 1 P	Chemistry 1 P	X	X	N/A	X
10	SC8110	Chemistry 1 HP	Chemistry 1 HP	X	X	LCHS/UC HNRS	X
11	SC8020	BIOLOGY 1 P	Biology 1 P	X	X	N/A	X
12	SC8022	GEOLOGY 1 P	Geology 1 P	X	X	N/A	X
12	SC8030	AP BIOLOGY HP	AP Biology	X	X	LCHS/UC HNRS	X
12	SC8031	AP CHEM HP	AP Chemistry	X	X	LCHS/UC HNRS	X
12	SC8033	AP Phys C HP	AP Physics C**	X	X	LCHS/UC HNRS	X
11-12	SC8034	AP ENVIR SCI P	AP Environmental Science	x	X	LCHS/UC HNRS	X
11-12	SC8043	AP Phys 1 HP	AP Physics 1	x	x	LCHS/UC HNRS)Pending

* - Earth Science is an approved UC/CSU course, but as a science elective, not as a laboratory science class.

** - AP Physics C requires students to be concurrently enrolled in AP Calculus AB or BC or have completed the equivalent math course.

Four-Year Course Sequence Options For Classes of 2018-2020

Performance and Teacher Recommendations Determine Progress	Option	Grade 9	Grade 10	Grade 11	Grade 12
	1	Biology	Chemistry	Physics/Geology	Physics/Geology
	2	Biology HNRS	Chemistry HNRS	AP Science	AP Science
	3	Biology	Chemistry	Physics/Geology	AP Science
	4	Biology	Chemistry/Geology	Chemistry/Geology	No Science Course
	5	Life Science	Earth Science	Geology	No Science Course
	6	Life Science	Biology	Earth Science/Geology	No Science Course

Four-Year Course Sequence Options For Classes of 2021 and Beyond

Performance and Teacher Recommendations Determine Progress	Option	Grade 9	Grade 10	Grade 11	Grade 12
	1	Physics	Chemistry	Biology	
	2	Advanced Physics	Chemistry	AP Science	AP Science
	3	Advanced Physics	Chemistry HNRS	AP Science	AP Science
	4	Physics	Chemistry HNRS	Biology/Geology	AP Science
	5	Physics	Chemistry/Geology	Biology/Geology	No Science Course
	6	Physics	Earth Science	Geology	No Science Course
7	Physics	Biology	Earth Science/Geology	No Science Course	

LCHS Department Policy:

Entrance into Honors and/or AP courses is based upon performance in prior courses, teacher recommendations, and counselor advisement.

Students must complete their two years of science coursework in order to receive a diploma. Summer school and pre-approved online courses may be taken for both advancement and remediation, but courses must include an evident laboratory component equivalent to the LCHS course for which they hope to substitute it.

Students enrolled in honors or AP classes who earn a D+ or lower at the semester mark, will be transferred to a grade appropriate college preparatory science class based upon availability.

Science Courses

SC8000 **Life Science**
Not College Preparatory
 10 Units (2 semesters)

Prerequisite: None
Daily Homework: 15-30 minutes

This is a thematic course with emphasis on cell biology, evolution, ecology, human physiology, viruses, plants, animals, marine biology, and genetics. Meets LCHS graduation requirements; does not qualify for the A-G requirement of the UC system. This course serves as a stepping-stone to success in science at La Cañada.

SC8023 **Earth Science**
UC/CSU Approved As an Elective Course, Not Laboratory Science
 10 Units (2 semesters)

Prerequisite: None
Daily Homework: 20 minutes

This is a laboratory course emphasizing the methods and procedures of the following subjects: Geology, Oceanography, Meteorology, and Astronomy. Additional study will include techniques of earth science such as maps, aerial photo/image analysis, earth processes, remote sensing, and geographic information systems. Laboratory investigations and fieldwork are very important. This course meets UC Elective Credit, not UC Lab Science Credit.

SC8020 **Biology 1 P (Not offered in 18-19)**
UC/CSU Approved
For students in the Graduation Classes of 2018-2020
 10 Units (2 semesters)

Prerequisite: Grade of C or higher in prior year science course
Daily Homework: 15 minutes

This is a laboratory course that covers required biological topics in the State Science Standards. Essential topics are cell biology, genetics, evolution, physiology, ecology, and lab skills. Laboratory investigations are very important. For 2017-18, this course is open to students in grades 10-12 only. This course is a UC Certified Lab Science.

SC8042 **Biology 1 Honors P (Not offered 18-19)**
UC/CSU Approved
LCHS Honors Credit Only - Not for University Admission Purposes For students in the Graduation Classes of 2018-2020
 10 Units (2 semesters)

Prerequisite: Grade of an A in prior year science course

Daily Homework: 20 minutes

This laboratory course in biology covers topics in the State Science Standards in more depth than Biology 1P. This course is designed for students who plan on taking four years of science. Laboratory investigations are very important. For 2017-18, this course is open to students in grades 10-12 only. This course is a UC Certified Lab Science.

SC8021 **Chemistry 1 P**
UC/CSU Approved
For students in the Graduation Classes of 2018-2020
 10 Units (2 semesters)

Prerequisite: Grade of "C" or better in previous science class. Grade of "C" or better in LC Math 1 or its equivalent

Daily Homework: 20 minutes

This is a laboratory course in general chemistry that covers chemistry topics in the State Science Standards. Essential topics are atomic theory, periodicity, bonding, thermodynamics, stoichiometry and chemical reactions. Laboratory investigations are very important. This course is a UC Certified Lab Science.

SC8110 **Chemistry Honors P**
UC/CSU Approved
LCHS Honors Credit Only - Not for University Admission Purposes For students in the Graduation Classes of 2018-2020
 10 Units (2 semesters)

Prerequisite: Recommended Grade of "B" in Physics Grade of "A" in LC Math 1 or higher math class or its equivalent

Daily Homework: 40 minutes

This is a laboratory course in chemistry that covers chemistry topics in the State Science Standards in more depth than Chemistry 1P. Laboratory investigations are very important. This course is a UC Certified Lab Science.

SC8022 **Geology 1**
UC/CSU Approved
 For students in the Graduation Classes of
 2018-2020
 10 units (2 semesters)

Prerequisite: Grade of C or higher in 9th grade science course and subsequent science courses and concurrent enrollment in LC Math 2 or higher.

Daily Homework: 20 minutes

This is a laboratory course in physical geology. The focus during the 1st semester is on minerals, major rock types, models of atomic structure and bonding as it relates to the formation of geologic features. The focus during the 2nd semester is the dynamic processes shaping the earth, including plate tectonics, earthquakes, and volcanism. Lab investigations and fieldwork are very important. This course is a UC Certified Lab Science.

SC8026 **Physics 1 Advanced (9th Grade)**
UC/CSU (Approval Pending)
 10 units (2 semesters)

Prerequisite: Placement in course based on 8th Grade Assessment

Daily Homework: 30 minutes

This is a laboratory course in physics that covers topics in the State Science Standards. Essential topics are Forces and Interactions, Waves and Electromagnetic Radiation, and Energy . Laboratory investigations are very important. This course is a UC Certified Lab Science. This course requires an understanding of abstract thinking as evidenced by mastery of Algebraic concepts. The material covered in this course develops a greater depth of understanding of the NGSS Physics curriculum. It does not award an additional honors point on the GPA Calculation.

SC8025 **Physics 1**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Grade of C or higher in prior science course and concurrent enrollment in LC Math 1 or higher.

Daily Homework: 30 minutes

This is a laboratory course in physics that covers topics in the State Science Standards. Essential topics are Forces and Interactions, Waves and Electromagnetic Radiation, and Energy . Laboratory investigations are very important. This course is a UC Certified Lab Science.

SC8030 **AP Biology HP**
UC/CSU Approved
 LCHS Honors Credit and Honors Credit for
 University Admissions Purposes For students
 in the Graduation Classes of 2018-2020
 10 units (2 semesters)

Prerequisite: Recommended Grade of “B” or higher in Biology and Chemistry Honors or Grade of “A” in Chemistry and Biology 1P. Concurrent enrollment or completion of LC Math 3 or Pre Calculus or their equivalents (for class of 2020).

Daily Homework: 30-40 minutes

AP Biology is equivalent to a full year of college biology, prepares students for the Advanced Placement exam, uses a college text, and requires college level skills. Laboratory work is essential and requires additional student time. Required topics are cell biology, genetics, mitosis and meiosis, photosynthesis and respiration, diversity of life, ecology and evolution, and physiology of human systems. This course is a UC Certified Lab Science.

SC8031 **AP Chemistry HP**
UC/CSU Approved
 LCHS Honors Credit and Honors Credit for
 University Admissions Purposes For students
 in the Graduation Classes of 2018-2020
 10 units (2 semesters)

Prerequisite: Recommended Grade of “B” or higher in Biology and Chemistry Honors or Grade of “A” in Chemistry and Biology 1P. Concurrent enrollment or completion of LC Math 3 Advanced or Pre Calculus or their equivalents (for class of 2020).

Daily Homework: 60 minutes

AP Chemistry is equivalent to a full year of college chemistry, prepares students for the Advanced Placement exam, uses a college text, and requires college level skills. This course is a UC Certified Lab Science. Open to students in the classes of 2018-2020.

SC8034 AP Environmental Science HP
UC/CSU Approved
 LCHS Honors Credit and Honors Credit for
 University Admissions Purposes For students
 in the Graduation Classes of 2018-2020
 10 units (2 semesters)

Prerequisite: None. Recommended preparation:
 Experience in prior honors or Advanced Placement
 science class.

Daily Homework: 35 minutes

AP Environmental Science is equivalent to a college Environmental Science, prepares students for the Advanced Placement exam, uses a college text, and requires college level skills. Laboratory, fieldwork, and computer work are essential and will require additional student time. The students will understand the interrelationships of the natural world, identify and analyze environmental problems, and evaluate the relative risks of and possible solutions for these problems. This course is a UC Certified Lab Science.

SC8033 AP Physics C HP
UC/CSU Approved
 LCHS Honors Credit and Honors Credit for
 University Admissions Purposes For students
 in the Graduation Classes of 2018-2020
 10 units (2 semesters)

Prerequisite: Recommended Grade of "B" or higher
 in Physics Honors or Grade of "A" in Physics 1P.
 Completion or concurrent enrollment in AP Calculus
 AB or BC or their equivalents.

Daily Homework: 60 minutes

AP Physics C: Mechanics is equivalent to a semester of calculus-based physics and prepares the students for the Advanced Placement Exam in Mechanics. The topics covered in depth include one and two

dimensional motion, forces, work, energy, impulse, momentum, circular motion, rotational motion, equilibrium, gravitation, and oscillatory motion. This course is a UC Certified Lab Science.

AP Physics 1 HP
UC/CSU Approved

LCHS Honors Credit and Honors Credit for
 University Admissions Purposes For students
 in the Graduation Classes of 2018-2020
 10 units (2 semesters)

Prerequisite: Recommended Grade of "B" or higher
 in Physics Advanced or Grade of "A" in Physics 1P.
 Concurrent enrollment in LC Math 3 Advanced or LC Math
 3.

Daily Homework: 60 minutes

AP Physics 1 P is an algebra-based, introductory college-level physics course equivalent to the first semester introductory course in algebra-based physics. Students develop their understanding of physics through inquiry-based investigations as they explore these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion, electric charge and electric force, DC circuits, and mechanical waves and sound. This course is UC Certified Lab Science.

[Return to Table of Contents](#)[History/Social Science](#)[English](#)[ELD](#)[Math](#)[Science](#)[World Languages](#)[Visual and Performing Arts](#)[Electives](#)[Physical Education](#)[Special Education](#)

World Languages

Department Chair: Merissa Sadler, msadler@lcusd.net

The primary goal of the World Languages Department is to instruct students in their learning of a language other than their own. The courses taken in the World Languages Department count as elective units and may count toward fulfilling the 90 units of electives required to graduate. Students may earn an LCHS diploma without taking a World Languages class. The University of California and California State University system requires that students take a minimum of two years of the same World Language and recommends that students take three years. All classes are year-long classes.

Preparation & Study Habits:

The World Languages Department strongly recommends that only those students who have done well in English, who memorize and read well, and who have a good knowledge of grammar, enter level 1 classes. Success in world language study depends on spending time every day outside the classroom, not only in doing homework, but also in reviewing vocabulary and grammar, and in practicing the target language. Many successful students use flashcards or podcasts and seek out native speakers, classmates, advanced students or friends to help improve their language skills. The department has conducted a thorough review of the language programs, developed a department grading policy, revised its final exams and oral and written rubrics, and has revamped the Spanish program to foster better language acquisition.

Advancement to the Next Level and Transfer Requirements:

Advancement to the next level of language study depends on the student's performance at the previous level. Each level builds on the previous level and generally both the depth and the breadth of the content at the next level increase, therefore greater effort is required of the student to be successful. Use of the target language is emphasized in level one and required in all subsequent levels. Level 2 classes require a grade of at least "C" in level 1 (although a "B" grade or better usually leads to better success.) Levels 3 and 4 also require at least a "C" grade. AP Spanish requires at least a "B" grade in Spanish 3. Entering language study at other than level 1 requires a qualifying transfer grade from an accredited school and satisfactory performance on the appropriate placement exam.

The World Languages Department believes that a very important tool in improving reading, writing, vocabulary and grammar skills in the target language is the workbook. These workbooks are available online at no charge to the student.

World Languages Course List

Grade(s)	Course Number	UC/CSU Transcript Abbreviation	Course Title	Graduation	College Prep	LCHS Hrs Only/UC Hrs	UC/CSU Approved
8-12	FA4001	FRENCH 1	French 1	X	X	N/A	X
9-12	FA4003	FRENCH 2 P	French 2	X	X	N/A	X
10-12	FA4005	FRENCH 3 P	French 3	X	X	N/A	X
10-12	FA4006	FRENCH 3 HR HP	French 3 (H)	X	X	LCHS/UC HNRs	X
11-12	FA4008	FRENCH 4 HR HP	French 4 (H)	X	X	LCHS/UC HNRs	X
9	FA4011	GERMAN1	German 1	X	X	N/A	X
10	FA4013	GERMAN 2	German 2	X	X	N/A	X
11	FA4015	GERMAN 3	German 3	X	X	N/A	X
11	FA4016	GERMAN 3 HR HP	German 3 (H)	X	X	LCHS/UC HNRs	X
12	FA4018	GERMAN 4 HR HP	German 4 (H)	X	X	LCHS/UC HNRs	X
8-12	FA4040	KOREAN 1	Korean 1	X	X	N/A	X
9-12	FA4042	KOREAN 2	Korean 2	X	X	N/A	X
10-12	FA4041	KOREAN 3	Korean 3	X	X	N/A	X
11-12	FA4046	KOREAN 4 HR HP	Korean 4 (H)	X	X	LCHS/UC HNRs	X
7-12	FA4031	SPANISH1	Spanish 1	X	X	N/A	X
7-12	FA4033	SPANISH 2 P	Spanish 2	X	X	N/A	X
8-12	FA4035	SPANISH 3	Spanish 3	X	X	N/A	X
10-12	FA4036	SPANISH 3 HR HP	Spanish 3 (H)	X	X	LCHS/UC HNRs	X
9-12	FA4037	SPANISH 4	Spanish 4	X	X	N/A	X
9-12	FA4038	AP SPANISH HP	AP Spanish Language and Culture	X	X	LCHS/UC HNRs	X

World Languages Four-Year Course Sequence Options

Performance and Teacher Recommendations Determine Progress	Option	Grade 9	Grade 10	Grade 11	Grade 12
	1	French 1 P	French 2 P	French 3 P/ 3 HP*	French 4 HP**
	2	German 1 P	German 2 P	German 3 P/ 3 HP*	German 4 P/4 HP**
	3	Korean 1 P	Korean 2 P	Korean 3 P*	Korean 4 HP**
	4	Spanish 1 P	Spanish 2 P	Spanish 3 P*	AP Spanish*
	5	Spanish 1 P	Spanish 2 P	Spanish 3 P*	Spanish 4**
	6	Spanish 4 P ⁺	Other Elective	Other Elective	Other Elective
	7	AP Spanish HP ⁺	Other Elective	Other Elective	Other Elective

* - UC/CSU requires two years of study, three years is recommended

** - The fourth year of World Language coursework fulfills the recommended preparation for certain highly selective universities and colleges.

+ - indicates that high school level coursework was taken in elementary and middle school in LCUSD.

LCHS Department Policy:

Entrance into Honors and/or AP courses is based upon performance in prior courses, teacher recommendations, and counselor advisement.

World Language courses may be taken in summer or through pre-approved, accredited online schools for advancement and remediation.

Student accelerating during summer in World Language may not enroll in the next in sequence honors level class.

Students enrolled in honors or AP classes who earn a D+ or lower at the semester mark, will be transferred to a grade appropriate college preparatory World Language class based upon availability.

World Languages Courses

FA4001 **French 1 P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: None
Daily Homework: 15 mins 5 nights a week

This course is designed to introduce the basic foundation of the French language and culture. The foundational elements are used for communication and completion of simple tasks in the target language. Students should expect to work on homework, and study the vocabulary for 20 minutes a night, 5 nights a week.

FA4003 **French 2 P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Grade of C or higher in French 1 P
Daily Homework: 20-25 mins 5 nights a week

French 2 is a yearlong course designed to build upon the foundational elements acquired in French 1. Students continue learning building the building blocks of the language while displaying language acquisition through real world task-based activities as well as a focus on the francophone world and culture. Students should expect to work on homework, and study the vocabulary for 30 minutes a night, 5 nights a week.

FA4005 **French 3 P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Grade of C or higher in French 2 P
Daily Homework: 25-30 mins 5 nights a week

French 3 is designed to build upon the grammar and culture taught in both French 1 and French 2. Students are required to recall grammar concepts taught previously while learning in depth rules to further language acquisition as well as an introduction to French literature. Students will converse in the target language while continuing the exploration of the francophone world. Students should expect to work on

homework, and study the vocabulary for 30 minutes a night, 5 nights a week.

FA4006 **French 3 Honors P**
UC/CSU Approved
 LCHS Honors Credit and Honors Credit for
 University Admissions Purposes
 10 units (2 semesters)

Prerequisite: Recommended Grade of B or higher in French 2 P and teacher recommendation.

Daily Homework: 30-60 minutes
 French 3 Honors is a more rigorous course than French 3. It is strongly recommended that students enter the class with a strong B or better from French 2. It is designed to challenge the students. Students are required to converse in the target language and recall grammar concepts taught previously while learning in depth rules to further language acquisition. Advanced grammar will be taught at an accelerated pace alongside the introduction to French literature and journalistic readings as well as cultural enrichment of the French and francophone world. Students should expect to work on homework, and study the vocabulary for 30 minutes a night, 5 nights a week.

FA4008 **French 4 Honors P**
UC/CSU Approved
 LCHS Honors Credit and Honors Credit for
 University Admissions Purposes
 10 units (2 semesters)

Prerequisite: Recommended Grade of B or higher in French 3 HP or a grade of A in French 3 P and teacher recommendation.

Daily Homework: 30-60 minutes

French 4 Honors is a college preparatory class designed to challenge the students who wish to refine their acquired skills. It is strongly recommended that students enter the class with a strong B or higher from French 3 HP. The class focuses on French history, advanced grammar, French literature, non-fiction, further exploration of the use of French and the impact of the French and francophone cultures, speaking and

listening at an accelerated pace while completing skill based tasks throughout the year.

FA4011 **German 1 P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: None
Daily Homework: 15 minutes

This course introduces students to pronunciation, reading, speaking and writing German (present tense), as well as to the customs, geography, and culture of German-speaking countries.

FA4013 **German 2 P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Grade of a C or higher in German 1 P
Daily Homework: 20 minutes

This course continues language development through a more extensive emphasis on oral expression, writing, reading, culture, and grammar (present perfect tense and introduction to past tense). The second year of language study is often considered the most difficult.

FA4015 **German 3 P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Grade of C or higher in German 2 P
Daily Homework: 0 minutes

In conjunction with German 4, this two-year program is designed to complete half of the German 3 textbook and a variety of projects to give students creative opportunities to use their growing communication skills. Vocabulary and grammar are broadened and students should reach the intermediate level of language proficiency.

FA4016 **German 3 Honors P**
UC/CSU Approved
 LCHS Honors Credit and Honors Credit for University Admissions Purposes
 10 units (2 semesters)

Prerequisite: Recommended Grade of a B or higher in German 2 P and teacher recommendation
Daily Homework: 35 minutes

This two-year program is designed to bring language proficiency to the intermediate level. Short excerpts from German literature, cultural comparisons, and current events are combined into themes used as springboards for discussion. Useful vocabulary is steadily increased and grammar is reviewed, as students are encouraged to speak and write more German. Honors credit is available to students of German 3 and 4.

FA4018 **German 4 Honors P**
UC/CSU Approved
 LCHS Honors Credit and Honors Credit for University Admissions Purposes
 10 units (2 semesters)

Prerequisite: Recommended Grade of B or higher in German 3 P or 3 HP and teacher recommendation
Daily Homework: 35 minutes

This two-year program is designed to bring language proficiency to the intermediate level. Short excerpts from German literature, cultural comparisons, and current events are combined into themes used as springboards for discussion. Useful vocabulary is steadily increased and grammar is reviewed, as students are encouraged to speak and write more German. Honors credit is available to students of German 3 and 4.

FA4040 **Korean 1 P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: None
Daily Homework: 30 minutes

Korean 1 is a one-year introductory course designed to provide a solid foundation in Korean language and culture. Pronunciation, vocabulary, grammar and hearing/speaking skills are stressed so the student will be able to comprehend the Korean language on an elementary level. The student is introduced to the cultural and social environment in which the Korean language functions. No previous background in Korean is necessary.

FA4042 **Korean 2 P**
UC/CSU Approved

10 units (2 semesters)

Prerequisite: Grade of C or better in Korean 1 P

Daily Homework: 30 minutes

Korean 2 is intended for students who have successfully completed Korean 1. This class is a continuation of Korean 1. Oral and aural skills continue to be stressed and the reading of Korean texts and writing exercises are gradually increased. In order to promote increased cultural understanding, speakers from the Korean community address the class.

FA4041 **Korean 3 P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Grade of C or better in Korean 2 P

Daily Homework: 30 minutes

Korean 3 is intended for students who have successfully completed Korean 2. This course is considered the intermediate level. Conversation, practical vocabulary, literature, composition, grammar, and culture are emphasized. The course will introduce more advanced vocabulary, sentence construction, and syntax not previously studied. Oral and written skills continue to be stressed and the reading of Korean texts and writing exercises are increased. Speakers from the Korean community may address the class.

FA4046 **Korean 4 Honors P**
UC/CSU Approved
 LCHS Honors Credit and Honors Credit for
 University Admissions Purposes
 10 units (2 semesters)

Prerequisite: Recommended Grade of B or higher in Korean 3 P and teacher recommendation

Daily Homework: 30 minutes

Korean 4 Hnr is an advanced intermediate course for those students desiring to continue their Korean language skills. Conversation, vocabulary, literature, composition, grammar, and culture are emphasized. The course will introduce more advanced vocabulary, sentence construction, and syntax not previously studied. Oral and aural skills continue to be stressed and the reading of Korean texts and writing exercises are gradually increased.

FA4031 **Spanish 1 P**

UC/CSU Approved

10 units (2 semesters)

Prerequisite: None

Daily Homework: 20-25 minutes

This class introduces students to the vocabulary, grammar, conversation, and cultures of Spanish speaking countries. The course is designed for students with no previous background in Spanish. Students should have and/or develop good study habits and memorization skills. Daily study time is essential for success. Spanish 1 covers 12 chapters, approximately 3 chapters per quarter.

FA4033 **Spanish 2 P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Grade of C or higher in Spanish 1 P

Daily Homework: 20 -25 minutes

This class is a continuation of Spanish 1 and teaches students to become more confident with speaking the language in real-life situations. Students increase their knowledge of Spanish culture and are introduced to some literature. The vocabulary introduced in each chapter focuses on specific topics and cover key situations in which students would have to use Spanish to survive in a Spanish speaking country. Grammatical structures enable students to form coherent sentences, engage in conversations, and incorporate previous knowledge. Spanish 2 covers 12 chapters, approximately 3 chapters per quarter.

FA4035 **Spanish 3 P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Grade of C or higher in Spanish 2 P

Daily Homework: 60 minutes

This course is considered high intermediate level. The course involves high standard vocabulary with lots of synonyms and cognates, a broad grammar that deals with many complex tenses and clauses as well as idiomatic expressions, immersion in Spanish literature and knowledge of the Spanish culture. Students are expected to communicate in Spanish for the most part and instruction is imparted 80% in Spanish. The course is divided into 1st and 2nd semester for Spanish 3 Regular. Spanish 3 covers 8 chapters, approximately 2 chapters per quarter. A grade of "C" or better is recommended to go on to Spanish 4.

FA4036 **Spanish 3 Honors P**
UC/CSU Approved
 LCHS Honors Credit and Honors Credit for
 University Admissions Purposes
 10 units (2 semesters)

Prerequisite: Recommended Grade of B or higher in Spanish 2 P and teacher recommendation

Daily Homework: 60 minutes

This course is intended for a more intensive study in Spanish and prepares students for the AP Spanish curriculum. The course involves high standard vocabulary with lots of synonyms and cognates, a broad grammar that deals with many complex tenses and clauses as well as idiomatic expressions, a demanding immersion in the Spanish literature and deeper knowledge of the Spanish culture. Students have to communicate in Spanish throughout the whole class and Spanish is used 90% in instruction. The pace in Spanish 3 Honors is faster than in Regular Spanish 3, there is more Reading & Listening Comprehension and the Literature section is expanded. Students are expected to work on a quarterly project or oral presentation. The 2nd semester final will include both semesters. Spanish 3 covers 8 chapters, approximately 2 chapters per quarter. A grade of "C" or better is recommended to go on to Spanish 4.

FA4037 **Spanish 4 P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Recommended Grade of B or higher in Spanish 3 P/ 3HP

Daily Homework: 60 minutes

This course is intended for advanced students who took Spanish 3 and would like to continue but prefer to opt out of an A.P. Course. Students are expected to communicate in Spanish and Spanish is used in instruction. Conversation, practical vocabulary,

grammar, and culture are instructed. Literature and writing are emphasized. Encuentros Maravillosos and Galeria Textbooks are used, covering at least 5 chapters of each one.

FA4038 **AP Spanish P**
UC/CSU Approved
 LCHS Honors Credit and Honors Credit for
 University Admissions Purposes
 10 units (2 semesters)

Prerequisite: Recommended Grade of A in Spanish 3 P and teacher recommendation or Grade of B or higher in Honors Spanish 3 P and teacher recommendation.

Daily Homework: 60-70 minutes

This college level course offers total immersion in Spanish through culture, listening and reading comprehension, conversation and oral presentations, vocabulary and literature. Emphasis is placed on improving writing skills by producing persuasive essays as well as informal writing (letters and electronic mail) and listening and commenting on current news. Good to excellent oral skills and good capacity for improvisation must be mastered by the end of the year. Use of Internet sources and technology is a must. Due to the new changes to the official AP examination a deeper knowledge on the Spanish culture is also emphasized throughout the year and students are expected to work on various projects. Several textbooks are used in this course dealing with Grammar, Literature and Preparing for the AP Examination. This course is taught completely in Spanish and all students are expected to speak Spanish in class.

Return to Table of Contents	History/Social Science	English	ELD	Math	Science	World Languages	Visual and Performing Arts	Electives	Physical Education	Special Education
---	--	-------------------------	---------------------	----------------------	-------------------------	---------------------------------	--	---------------------------	------------------------------------	-----------------------------------

Visual and Performing Arts

Department Chair: Justin Eick, jeick@lcsd.net

The courses taken in the Visual and Performing Arts Department count as elective units and may count toward fulfilling the 90 units of electives required to graduate. In order to receive a diploma from LCHS, students must complete 10 units of credit, which is equal to one class, in either the Visual and Performing Arts or World Language. Students may earn an LCHS diploma without taking a Visual or Performing Art. The University of California requires students to complete one year of Visual and Performing Arts.

The Visual and Performing Arts (VPA) department provides a diverse depth of experience in the areas of Visual Arts, Instrumental Music, Choral Music, and Dramatic Arts. The VPA department also offers diverse course offerings in Career and Technical Education (CTE). These courses are typically organized into three course pathways, where students learn introductory concepts in course one, deepen their learning in the second year concentrator class, and advanced learning in the capstone class. Students gain practical experience that equip them to work in selected fields.

Visual and Performing Arts Course List

Grade(s)	Course Number	UC/CSU Transcript Abbreviation	Visual Arts Course Title	Graduation	College Prep	LCHS Hrs Only/UC Hrs	UC/CSU Approved
9-12	FA3001	DRAW/PAINT	Art Foundations	X	X	N/A	X
10-12	FA3005	ADV ART P	Advanced Art	X	X	N/A	X
11-12	FA3004	ART PORTFOLIO	Art Portfolio Preparation	X	X	N/A	X
9-12	FA3007	BEG CERAMICS	Beginning Ceramics	X	X	N/A	X
10-12	FA3008	ADV CERAMICS P	Advanced Ceramics	X	X	N/A	X
Grade(s)	Course Number	UC/CSU Transcript Abbreviation	Instrumental Music Course Title	Graduation	College Prep	LCHS Hrs Only/UC Hrs	UC/CSU Approved
9-12	FA3011	ADV BAND P	Advanced Band	X	X	N/A	X
9-12	FA3014	ADV ORCHSTRA P	Advanced Orchestra	X	X	N/A	X
10-12	FA3010	AP Music Theory	AP Music Theory	X	X	LCHS/UC HNRS	X
9-12	FA3115	JAZZ BAND	Jazz Band	X	X	N/A	X
Grade(s)	Course Number	UC/CSU Transcript Abbreviation	Choral Music Course Title	Graduation	College Prep	LCHS Hrs Only/UC	UC/CSU Approved

						Hrs	
9-12	FA3016	WOMENENSMBL	Women's Ensemble	X	X	N/A	X
9-12	FA3021	MENS CHORUS	Men's Chorus	X	X	N/A	X
9-12	FA3017	CONCERT CHOIR P	Concert Choir	X	X	N/A	X
10-12	FA3015	CHAMBER SNG P	Chamber Singers	X	X	N/A	X
Grade(s)	Course Number	UC/CSU Transcript Abbreviation	Dramatic Arts Course Title	Graduation	College Prep	LCHS Hrs Only/UC Hrs	UC/CSU Approved
9-12	FA3036	Ensemble Thtr P	Ensemble Theatre	X	X	N/A	X
10-12	FA3037	Repertory Theatre	Repertory Theatre	X	X	N/A	X
11-12	FA3038	Company Theatre	Company Theatre	X	X	N/A	X
11-12	FA3034	ADV THEATRE P	Advanced Theatre	X	X	N/A	X
9-12	EL3035	N/A	Theatre Arts	X	N/A	N/A	N/A
Grade(s)	Course Number	UC/CSU Transcript Abbreviation	Career Technical Education (CTE) Course Title	Graduation	College Prep	LCHS Hrs Only/UC Hrs	UC/CSU Approved
9-12	FA3409	COMM PHOTO P	Commercial Photography	X	X	N/A	X
10-12	FA0410	COMM PHOTO 2 P	Commercial Photography II	X	X	N/A	X
10-12	FA0415	Graph/Dsgn	Graphic Arts & Web Design	X	X	N/A	X
9-12	EL3445	N/A	Culinary Arts	X	N/A	N/A	N/A
10-12	EL3446	N/A	Advanced Culinary Arts	X	N/A	N/A	N/A
11-12	EL3414	N/A	Retail Marketing	X	N/A	N/A	N/A
9-12	FA3412	Intro Video Prod	LCTV 1 - Studio	X	X	N/A	X
10-12	FA3413	Intermediate Video Production	LCTV 2 - Production	X	X	N/A	X
10-12	FA3414	Multimedia and Film Production	LCTV 3 - Multimedia and Film	X	X	N/A	Pending
9-12	FA4462	Intro Dsgn	Intro to Design PLTW 1	X	X	N/A	X
10-12	EL4463	Enginr Princpls	Engineering Principles - PLTW 2	X	X	N/A	X
10-12	EL4464	Comp Int Manuf.	Computer Integrated Manufacturing	X	X	N/A	Pending

LCHS Department Policy:

Entrance into Honors, advanced, and/or AP courses is based upon performance in prior courses, teacher recommendations, and counselor advisement.

Students may earn 5 units of physical education credit by participating in Marching Band in Fall semester. All Advanced Band and colorguard members are expected to attend "Band Camp" (which occurs in the closing weeks of summer. See the Band Director for details.)

Enrollment in intermediate and advanced choral music and dramatic arts classes are determined by auditions held in the Spring of the prior year.

Enrollment in select Visual and Performing Arts courses can be repeated for credit. See course descriptions

for further details.

Visual and Performing Arts courses may be taken in summer or through pre-approved, accredited online schools for advancement and remediation.

Students enrolled in honors or AP classes who earn a D+ or lower at the semester mark, will be transferred to a grade appropriate college preparatory Visual and Performing Arts class based on availability.

Visual and Performing Arts Courses

Visual Arts Courses

FA3001 **Art Foundations P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: None

Daily Homework: 30 minutes

This course provides a variety of experiences for both the beginning and intermediate student in art concepts and techniques. Includes study in drawing, painting, design, color theory, basic elements and principles of art are included. Effort is made to provide individual instruction to match student interests and skills.

FA3005 **Advanced Art P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Grade of "B" or higher and an "S" or higher in citizenship in both semesters of Art Foundations. A recommendation of the teacher or a portfolio and passing a basic art examination will also be required.

Daily Homework: None

Advanced Art provides sequential learning in a variety of drawing techniques and media first semester and is followed by a diverse media experience in painting second semester. May be repeated for credit.

FA3004 **Art Portfolio Preparation P**
 10 units (2 semesters)

Prerequisite: "B" and "S" or better in both semesters of Advanced Art and/or Advanced Ceramics.

Daily Homework: None

This class is designed to provide an opportunity to develop a professional portfolio for applying for art college admission and scholarships. Matting and

mounting their work, taking slides and photographs, labeling slides, hanging and cataloging an exhibit will be included. Students will investigate, observe people, places and things, interpreting them through their portfolios. There will be trips to galleries to observe and have conversations with artists, curators or art critics. Students will gain ability to analyze and critique their own work, as well as others' artwork appropriately. They will explore new paradigms in art and writing, using literature, music and theater as a catalyst for writing about and creating art, writing art essays. May be repeated for credit.

FA3005 **Beginning Ceramics P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: None

Daily Homework: Up to 30 minutes

The major emphasis of this course is to provide students with creative problem-solving skills. This workshop-type course will introduce students to building with clay, and how to successfully manage its unique properties in order to make hand-sculpted ceramic artworks. Students will also be given the opportunity to practice wheel-throwing clay to create circular forms. Minimal quizzes evaluate vocabulary, but student comprehension is primarily evaluated through performance (projects and work habits). Students may attend optional after-school workshops as they deem necessary, but if class time is used wisely a student can expect to have 0 minutes of homework a week.

FA3007 **Advanced Ceramics P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Grade of B or higher in Beginning Ceramics and Teacher approval.

Daily Homework: Up to 30 minutes

The major emphasis of this course is to provide experienced students with the support and rigor to deepen creative problem-solving skills and to develop a student's personal style. This workshop-type course will introduce new techniques in ceramic handbuilding and wheel-throwing. Students will also be challenged to grow towards personalized goals, and to refine their skills in order to achieve exceptional control. Minimal quizzes evaluate vocabulary, but student comprehension is primarily evaluated through

performance (projects and work habits). May be repeated for credit.

Instrumental Music Courses

FA3011

Advanced Band P

UC/CSU Approved

10 units (2 semesters)

Prerequisite: Assessment of musical ability and teacher review

Daily Homework: Rehearsals outside of the school day

This class develops individual playing skills in addition to performing standard high school and college literature. Marching will also be part of the activities. There are many outside performances. The course develops musical ability and leadership skills and also addresses the eight instructional areas necessary to obtain PE credit. Students receive P.E. credit for first semester and Visual and Performing Art (Fine Art) credit for second semester. May be repeated for credit.

FA3014

Advanced Orchestra P

UC/CSU Approved

10 units (2 semesters)

Prerequisite: Assessment of musical ability and teacher review

Daily Homework: Minor projects

In this course, intermediate and experienced players will continue to develop their musical skills on a particular stringed instrument. Students play standard chamber and symphonic orchestral literature. After school rehearsals and performances are expected. This class meets "zero period" (7:00-7:45 a.m.) before school. May be repeated for credit.

FA3010

AP Music Theory HP

UC/CSU Approved

LCCHS Honors Credit and Honors Credit for University Admissions Purposes

10 units (2 semesters)

Prerequisite: None

Daily Homework: 20 minutes

This course is designed to develop musical skills that will lead to a thorough understanding of music composition and music theory. Students should possess fundamental knowledge of music and have previous musical training. Students are prepared to take the AP Music Theory Exam when they have completed the course. Students planning to major in music in college may be able to enroll in an advanced music theory course, depending on individual colleges' AP policies.

FA3115

Jazz Band P

UC/CSU Approved

10 units (2 semesters)

Prerequisite: Assessment of musical ability and teacher review

Daily Homework: Rehearsals outside of the school day

Jazz Band is a year-long class for the student who has previous training in music. This class develops the Visual and Performing Arts Standards by expanding musical expression, jazz and entertainment music concepts, aesthetic judgments, connections in society, as well as providing a greater understanding of music from various jazz and classical periods, composers, and cultures. This class develops skills and concepts related to various musical genres such as blues, swing, rock, be-bop, modern jazz, Latin music, and

pop/contemporary music. Performance participation is a requirement of this class. The course creates the La Cañada Jazz Ensemble, which performs at various community and school events and represents the school at adjudicated festivals throughout the year. It

is a requirement of students to attend performances since successful performances depend upon the effective participation of every member of the class. May be repeated for credit.

Choral Music Courses

FA3016 **Women's Ensemble P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: None

Daily Homework: Rehearsals outside of the school day

An ensemble which is open to all women/men (treble voice singers, bass clef singers). Students will learn about proper vocal technique, choral performance practices, music theory and history, and will explore choral literature from all eras and styles. Major seasonal performances on campus along with performances in festivals and competitions highlight the year. Specific attention is given to music written for women's/men's voices and vocal development. May be repeated for credit.

FA3021 **Men's Chorus P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: None

Daily Homework: Rehearsals outside of the school day

An ensemble which is open to all women/men (treble voice singers, bass clef singers). Students will learn about proper vocal technique, choral performance practices, music theory and history, and will explore choral literature from all eras and styles. Major seasonal performances on campus along with performances in festivals and competitions highlight the year. Specific attention is given to music written for women's/men's voices and vocal development. May be repeated for credit.

FA3017 **Concert Choir P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Audition and teacher approval

Daily Homework: Rehearsals outside of the school day

An advanced large ensemble which is open to students through audition only. Students in this course will learn about proper vocal technique, choral performance practices, music theory and history, and will explore choral literature from all eras and styles. Major seasonal performances on campus along with performances in festivals and competitions highlight the year. A spring tour is possible. The Concert Choir will combine with other LCHS choral ensembles to present major works for large choirs several times throughout the year. May be repeated for credit.

FA3015 **Chamber Singers P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Audition and teacher approval

Daily Homework: Rehearsals outside of the school day

An advanced small ensemble which is open to students through audition only. Students will learn about proper vocal technique, choral performance practices, music theory and history, and explore choral literature from all eras and styles. Performances throughout the community along with major seasonal performances on campus are ongoing. Additional performances include festivals and competitions and a possible tour in the spring. Chamber Singers will combine with other LCHS choral ensembles to present major works for large choirs throughout the year. May be repeated for credit.

Dramatic Arts Courses

FA3036 Ensemble Theatre P
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: None

Daily Homework: Rehearsals after school during performance season

This class is designed to give the beginning student the fundamental building blocks for creating a character using the text and their imagination. In teaching the essential elements of acting, a diverse set of theatre games are played to reinforce important ideas. As they move from basic text analysis to final rehearsals of their scenes, special emphasis is placed on spontaneity and creativity while maintaining focus and attention. Students will also study the movement theories of Meyerhold to help students improve their physical coordination, spatial awareness and physical characterization. Vocal work will focus on mastery of the following areas: breathing, phonation, resonance, pronunciation, articulation and phrasing. Finally, students will study a wide range of acting theories including the work of Stanislavski, Chekhov, Strasberg, Adler, Meisner and Hagen. May be repeated for credit.

FA3037 Repertory Theatre P
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Completion of Ensemble Theatre, an audition, and teacher approval.

Daily Homework: Rehearsals after school during performance season

An intermediate course for students who have successfully completed Theatre 1. In this class, students are given an opportunity to perform in two repertory shows - A Christmas Carol and Dracula. Additionally, students are given a concrete technique for approaching beginning classical theatre - specifically that of the Victorian and Edwardian age. Students are taught how to identify the defining characteristics of each period and use them in creating a character. Specific attention is placed on maintaining organic honesty within the work while adopting the necessary mannerisms of the style. Students will focus their movement training on

developing a reliable technique for style work as it applies to classical text. Vocally, students will explore dialect and accent work using a blend of ear training and IPA notation. Finally, students will continue their study of a wide range of acting theories including the work of Stanislavski, Chekhov, Strasberg, Adler, Meisner and Hagen. May be repeated for credit.

FA3038 Company Theatre P
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Completion of Ensemble Theatre or higher, an audition, and teacher approval.

Daily Homework: Rehearsals after school during performance season

The primary focus of this class entails participation and performance in two full productions over the course of the year. In addition, students are given a concrete technique for approaching both contemporary comedy and classic farce using their class plays as a working laboratory for artistic growth and exploration. Movement work will focus on armed stage combat with an emphasis on giving students a safe and reliable set of combat techniques for use on stage and in front of the camera. As the class progresses, more advanced routines are outlined as students study a variety of armed maneuvers involving rapier, katana and broadsword. This class will also allow students to explore their vocal range through an expansion of technique. Students will focus on strengthening their breath control and support to improve projection and clarity of speech. Special emphasis will be placed on providing students with the confidence to use their vocal expression emotionally. Finally, students will continue their study of a wide range of acting theories including the work of Stanislavski, Chekhov, Strasberg, Adler, Meisner and Hagen. May be repeated for credit.

FA3037 Advanced Theatre P
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Completion of Ensemble Theatre or higher, an audition, and teacher approval.

Daily Homework: Rehearsals after school during performance season

This course entails participation and performance in three full productions over the course of the year. In addition, students are given a concrete technique for approaching Shakespeare and Chekhov. Students are taught how to identify the defining characteristics of each period and use them in creating a character. Specific attention is placed on maintaining organic honesty within the work while adopting the necessary mannerisms of the style. Moreover, students are given the skills and confidence to successfully audition and perform professionally. Students receive detailed instruction on the necessary components of a professional resume as well as how and where to acquire headshots. This course also focuses on providing the students with appropriate monologues to be used at both college interviews and professional auditions. Finally, students will compare and contrast the theories of Stanislavski, Strasberg, Adler, Meisner, Hagen and Macy with the aim of creating a personalized technique for approaching acting. May be repeated for credit.

EL3035 Theatre Arts
10 units (2 semesters)

Prerequisite: None

Daily Homework: Major projects

In this class, students will acquire the basic skills needed to successfully identify and handle standard scenic elements. Beginning with soft-scenery units (or "soft goods"), students will learn the proper technique for working with drops, draperies, scrims, legs, teasers and borders. Students will then progress to framed units (flats) as well as three-dimensional units. Special attention will be paid to the different types of rail systems and the safe handling of a fly system. Students will also learn how to read a light plot and an instrument schedule, distinguish and correctly handle the different types of lights (e.g. ellipsoidals, fresnels, spotlights, LEDs) as well as how to program and run a show using both conventional and intelligent fixtures. Furthermore, students will study three different categories of sound design: verbal (performers), nonverbal (music and abstract) and realistic (sound effects). Students will study how to create a sound score, sound plot, cue sheet and music library. May be repeated for credit.

Career and Technical Education Courses

FA3409 Commercial Photography P
UC/CSU Approved
10 units (2 semesters)

Prerequisite: None

Daily Homework: 20 minutes

Introductory photography course which will provide students with the opportunity to create digital images with a digital SLR camera. Students shoot a variety of photographic assignments. Students will also be introduced to Adobe Photoshop, computer technology and digital photography.

FA0410 Commercial Photography 2 P
UC/CSU Approved
10 units (2 semesters)

Prerequisite: Grade of C or higher in Commercial Photography 1.

Daily Homework: 20 minutes

This advanced photography course will provide students with the opportunities to extend and advance their knowledge and skills in the field of photography and digital imaging. Students will refine their use of computer technology and digital imaging. Students may be able to submit an AP Photo portfolio to the College Board for evaluation.

FA0415 Graphic Arts and Web Design P
UC/CSU Approved
10 units (2 semesters)

Prerequisite: None

Daily Homework: 20 minutes

This graphic design course provides an introduction to the aesthetics and techniques used throughout the digital design field. Students will explore many aspects of design including page layouts,

advertisements, posters, book jackets, commercial packaging/product design, DVD design, app design, multimedia design and Website design. Students will learn to work independently and as part of a design teams to develop creative content. Career options in commercial art, graphic design and multimedia design will be covered. All students will create Web portfolios to showcase their design work.

Software: Photoshop, Illustrator, Dreamweaver, AppShed, ApplInventor, Premiere

EL3445 Culinary Arts
10 Units (2 Semesters)

Prerequisite: None

Daily Homework: 10 minutes plus 3-4 events/year

This course is offered to students who are interested in careers in the food-service industry. Students will be introduced to a variety of baking, cooking, catering, health and sanitation standards.

EL3446 Advanced Culinary Arts
10 Units (2 Semesters)

Prerequisite: None

Daily Homework: 10 minutes plus 3-4 events/year

This advanced course offers more in-depth experience in the preparation and presentation of various types of cuisine. Students will also be expected to demonstrate assorted cooking techniques and adhere to health and sanitation industry standards.

EL3414 Retail Marketing
10 units (2 semesters)

Prerequisite: None

Daily Homework: Major projects

This course will provide students with competencies necessary for entry-level work in merchandising and retail sales occupations. They also learn to market themselves through a personal portfolio. Includes hands on experience in retail merchandising settings. The on-the-job training portion of the course can be a combination of unpaid and paid experiences. This is a good course for students to receive credit for employment. This is an after school course. Students must be at least 16 years of age and in grade 11 or higher to participate in this class. May be repeated for credit.

FA3412 LCTV 1 - Studio P
UC/CSU Approved

10 units (2 semesters)

Prerequisite: None

Daily Homework: None

This is the first course in a three-course sequence designed to provide students training and skills in video production and design. Students in LCTV will acquire foundational competencies in film, video, and computer, as well as foundational knowledge in design in order to prepare students for employment in a variety of jobs in the multimedia/communications workforce. Students will develop skills in creative writing, communication, research, film and video production, lighting, sound, and editing.

FA3413 LCTV 2 - Production P
UC/CSU Approved - Pending
10 units (2 semesters)

Prerequisite: Updated - Completion of LCTV 1 Studio

Daily Homework: None

This is the second course in a three-course sequence designed to provide students training and skills in video production and design. Students in LCTV will advance their competencies in film, video, and computer, as well as extend their knowledge in design in order to prepare students for employment in a variety of jobs in the multimedia/communications workforce. Students will develop skills in creative writing, communication, research, film and video production, lighting, sound, and editing.

FA3414 LCTV 3 - Pro P
UC/CSU Approved - Pending
10 units (2 semesters)

Prerequisite: Completion of LCTV 2 Production or Teacher Recommendation

Daily Homework: None

This is the capstone course in a three-course sequence designed to provide experienced students opportunities for continued training and skills in video production and design. Students in LCTV 3 Pro will examine the role of the news media and television production and its contributions throughout history, focus on storytelling using their video production skills, and research how technology has changed within the industry over the years. Through a variety of rigorous

units of study this course will provide students with technical skills and implementation process of all phases of production from pre-production to post-production in the television, film, and news broadcast industry. The course will culminate in a series of video projects where students will utilize their knowledge and skills to create, plan, develop, and produce quality new stories, film shorts, and features.

FA4462 **Intro to Design PLTW P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: None

Daily Homework: None

Across the Project Lead the Way (PLTW) Engineering courses, students engage in open-ended problem solving, learn and apply the engineering design process, and use the same industry-leading technology and software as are used in the world's top companies. Students are immersed in design as they investigate topics such as sustainability, mechatronics, forces, structures, aerodynamics, digital electronics and circuit design, manufacturing, and the environment, which gives them an opportunity to learn about different engineering disciplines before beginning post-secondary education or careers.

EL4463 **Principles of Engineering PLTW II P**
UC/CSU Approved - Pending
 10 units (2 semesters)

Prerequisite: Completion of PLTW 1 P with grade of C or better.

Daily Homework: None

Across the PLTW Engineering courses, students engage in open-ended problem solving, learn and apply the engineering design process, and use the same industry-leading technology and software as are used in the world's top companies. Students are

immersed in design as they investigate topics such as sustainability, mechatronics, forces, structures, aerodynamics, digital electronics and circuit design, manufacturing, and the environment, which gives them an opportunity to learn about different engineering disciplines before beginning post-secondary education or careers.

EL4464 **Computer Integrated**
Manufacturing/PLTW III P
UC/CSU Approved - Pending
 10 units (2 semesters)

Prerequisite: Teacher recommendation

Daily Homework: None

Computer Integrated Manufacturing is one of the specialization courses in the PLTW Engineering program. The course deepens the skills and knowledge of an engineering student within the context of efficiently creating the products all around us. Students build upon their Computer Aided Design (CAD) experience through the use of Computer Aided Manufacturing (CAM) software. CAM transforms a digital design into a program that a Computer Numerical Controlled (CNC) mill uses to transform a block of raw material into a product designed by a student. Students learn and apply concepts related to integrating robotic systems such as Automated Guided Vehicles (AGV) and robotic arms into manufacturing systems. Throughout the course students learn about manufacturing processes and systems. This course culminates with a capstone project where students design, build, program, and present a manufacturing system model capable of creating a product.

Return to Table of Contents	History/Social Science	English	ELD	Math	Science	World Languages	Visual and Performing Arts	Electives	Physical Education	Special Education
---	--	-------------------------	---------------------	----------------------	-------------------------	---------------------------------	--	---------------------------	------------------------------------	-----------------------------------

Elective Courses

All students must earn a minimum of 90 units of electives credit in order to graduate from LCHS. Any classes that students take beyond the designated requirements listed above count toward fulfilling the 90 units of electives credit. Some of the elective classes described below are those that do not easily fit into the academic department structure that organizes the faculty here at LCHS. The electives that are designated as college-preparatory, satisfy the area G of the University of California. Those not designated as college preparatory are high school level classes that fulfill the elective units needed for graduation. Classes are year-long in duration and comply with the California state standards for that subject area.

Elective Course List

Grade(s)	Course Number	UC/CSU Transcript Abbreviation	Course Title	Graduation	College Prep	LCHS Hrs Only/UC Hrs	UC/CSU Approved
9-12	EL8406	Intro Comp Prog	Introduction to Computer Programming	X	X	N/A	X
9-12	MA5018	Comp Sci C++ H	Honors Computer Science C++	X	X	LCHS Only	X
10-12	EL5019	Honors Comp Sci Python H	Honors Computer Science Python	X	X	LCHS Only	X
11-12	MA5020	AP CMPSCI JVA H	AP Computer Science A	X	X	LCHS/UC HNRS	X
9	EL2029	N/A	Speech and Debate 9	x	N/A	N/A	N/A
10-12	EL2030	Speech and Debate	Speech and Debate P	X	X	N/A	X
10-12	EL2040	Spartan Newspaper	Communications	X	X	N/A	X
11-12	EL6012	Sports Medicine	Sports Medicine	X	X	N/A	X
12	EL3414	AP Psych (P)	AP Psychology	X	X	LCHS/UC HNRS	X
11-12	EL9020	PSYCHOLOGY P	PSYCHOLOGY P	X	X	N/A	X
11-12	MA5037	Discrete Math P	Discrete Math	X	X	N/A	X
9-12	SC8023	Earth Science	Earth Science	X	X	N/A	X

11-12	EL9102	N/A	Bridge	X	N/A	N/A	N/A
11-12	EL2036	N/A	Omega Yearbook	X	N/A	N/A	N/A
10-12	EL9999	N/A	Office Aide	X	N/A	N/A	N/A
9-12	EL9104	N/A	Associated Student Body (ASB) Leadership	X	N/A	N/A	N/A
11-12	Various	N/A	Independent Project	X	N/A	N/A	N/A

Elective Courses

MA8406 Introduction to Computer Programming P
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: None

Daily Homework: 10 minutes plus minor projects

This course is an introduction to and overview of computer programming. We will begin with programming in LOGO with an emphasis on the procedural style of programming and problem solving and then continue with Scripted languages including HTML and JavaScript. Since these are “web based” languages, we will be developing web pages using HTML. We continue problem solving and programming using the programming language Alice with an emphasis on the Object Oriented style of programming and problem solving.

MA5018 Honors Computer Science C++ P
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Concurrent enrollment in LC Math 1 and good written communication skills

Daily Homework: 30+ minutes

This course assumes some prior knowledge of computers. The course content is devoted to problem solving and programming in the C++ language, with an emphasis on the procedural style of programming and problem solving. Since this course is considered a math elective beyond Algebra 2/Trig, the focus will be on problems and ideas from previous math courses. Included in the study of the C++ language will be the C++ programming environment, statements, commands, input and output streams, variables, constants, simple data types, branching, indefinite

loops, definite loops, functions, debugging, recursion, vectors, user defined types, searching, sorting, and graphics. NOTE: This course prepares the student for AP Computer Science Java HP.

EL5019 Honors Computer Science Python P
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Grade of B or higher in LC Math 1 or higher and a grade of B or higher in Honors Computer Science C++, competence in previous programming

Daily Homework: 30+ minutes

This course assumes prior knowledge of computers. Included in the study of the Python language will be the Python 3.x programming environment, algorithms and information processing, software development, data types, and expressions, control statements, strings and text files, lists, tuples, and dictionaries, design with functions, image processing, design with classes, graphical user interfaces, recursion, searching, and sorting, and graphics.

MA5020 Advanced Placement Computer Science Java HP
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Concurrent enrollment in LC Math 3 or higher, grades of B or higher in LC Math 2 or its equivalent, grade of B or higher in Honors Computer Science C++, strong written communication skills, previous programming experience, and teacher approval.

Daily Homework: 30+ minutes

This course assumes prior knowledge of computers. The course content is the preparation for the AP

computer Science A exam and programming in the Java language. The focus is on problem solving and on Object Oriented Programming. Problem solving will be based on ideas from previous math courses including concepts from Algebra 2/Trigonometry. Included in the study of the Java language are the Java programming environment, Java syntax, input, output, data structures, constants, variables, branching, indefinite loops, definite loops, methods, debugging, recursion, user defined types, arrays, searching, sorting, programming style, graphics, classes and objects, and the AP case study.

EL2029 **Speech and Debate 9**
10 units (2 semesters)

Prerequisite: None

Daily Homework: Minor projects

The 9th grade section of this class allows students beginning high school to learn about the writing, critical reading, research, and analysis. The course will follow the topic outline of the college-preparatory 10th-12th grade Speech and Debate class.

EL2030 **Speech and Debate P**
UC/CSU Approved
10 units (2 semesters)

Prerequisite: None

Daily Homework: Minor projects

This is a two semester course structured to advance student listening, writing, critical reading, research, analysis, logical argumentation, creative expression, memorization, and persuasive speaking skills. Students will be able to connect both their historical knowledge and personal experience to debate, speak persuasively, and interpret literature, a skill that will be useful in other academic subjects, the arts, and future careers including, but not limited to law, politics, education, journalism, news media, and theater arts.

Content will be divided into four quarter units focusing on speech genres: original speeches to persuade or inform, debate, interpretation of literature, and spontaneous speaking.

EL2040 **Communications P**
UC/CSU Approved
10 units (2 semesters)

Prerequisite: Application and teacher approval

Daily Homework: Up to 30 minutes

Students in this class will be responsible for the writing and publication of the newspaper, The Spartan. Students will study journalistic writing, photography, and business management.

EL6012 **Sports Medicine P**
UC/CSU Approved
10 units (2 semesters)

Prerequisite: None

Daily Homework: 10 minutes

In this course students will explore the anatomy and physiology of the human body. Students will gain an introductory level knowledge of the musculoskeletal and neurological systems. Assessment and treatment techniques for a variety of sports injuries will be addressed as well as injury care and management. In addition to instruction in human anatomy, kinesiology and physiology, training in first aid, CPR, wrapping and taping techniques will be presented. Upon completion of the course, the student will meet the qualifications for employment in one or more of these entry-level positions: physical therapy aide, athletic trainer aide, and exercise assistant.

EL3414 **AP Psychology P**
UC/CSU Approved
LCHS Honors Credit and Honors Credit for
University Admissions Purposes
10 units (2 semesters)

Prerequisite: None

Daily Homework: 20 minutes

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major sub-fields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. The course traces the emergence of scientific psychology in the nineteenth century from its roots in philosophy and physiology and covers the development of the major "schools" of psychology, showing how these schools differed in what they viewed as the proper subject matter of psychology and the methods used to study it. This historical introduction helps students gain an understanding of the principal approaches to psychology: behavioral, biological, cognitive, humanistic, psychodynamic, evolutionary, sociobiological, and sociocultural.

Students learn how these approaches differentially guide research and practice in psychology. This course receives elective credit and does not qualify to meet the social science graduation requirement.

EL9020 **Psychology P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: None

Daily Homework: 10 minutes

The purpose of this course is to provide students with a broad understanding of the diverse areas of psychology. Through the use of hands-on activities, individual and group work, students will develop an understanding of why people behave as they do. Students will also gain insight into their own behaviors. The subject matter will be pertinent to both students' interests and pressing social issues. This course receives elective credit and does not qualify to meet the social science graduation requirement.

MA5037 **Discrete Math P**
UC/CSU Approved
 10 units (2 semesters)

Prerequisite: Grade of B or higher in Algebra II/Trig or LC Math 3.

Daily Homework: 15 minutes

This course is a critical thinking course that focuses on the application of Discrete Math topics to the social sciences as well as to the natural and physical sciences. First semester topics include election theory, fair division, matrix operations and applications, game theory, and codes. Second semester topics include graph theory and applications, combinatorics, probability and statistics, recursion, and series. This is a one year course. Students may begin this course at second semester since the topics are not continuous.

SC8023 **Earth Science**
UC/CSU Approved for Elective Credit
Not Laboratory Science
 10 units (2 semesters)

Prerequisite: None

Daily Homework: 20 minutes

This is a laboratory course emphasizing the methods and procedures of the following subjects: Geology, Oceanography, Meteorology, and Astronomy. Additional study will include techniques of earth science such as maps, aerial photo/image analysis,

earth processes, remote sensing, and geographic information systems. Laboratory investigations and fieldwork are very important. This course meets UC Elective Credit, not UC Lab Science Credit.

EL2036 **Omega Yearbook**
 10 Units (2 semesters)

Prerequisite: None

Daily Homework: Up to 20 minutes plus major projects

This class will produce the LCHS Yearbook. Students learn the essential skills in producing a yearbook, which include photography, layout design, copy writing, and budget planning.

EL9999 **Office Aide**
 10 Units (2 semesters)

Prerequisite: Teacher and counselor approval

Daily Homework: None

Teacher Aide: Students work with an individual teacher completing a variety of classroom and office-type tasks. It is the student's responsibility to find the teacher for whom s/he would like to work.

Office Aide: Students learn office skills while assisting the counseling, attendance, and records office staff.

EL9104 **Associated Student Body (ASB)**
Leadership
 10 Units (2 semesters)

Prerequisite: You must be elected to participate in student government.

Daily Homework: Outside of class commitments weekly

The purpose of the student government and leadership class is: to provide leadership training experiences which help individuals develop positive outlooks and self esteem; to assume responsibility for their actions; to understand the value of persistence; and to look beyond their initial impressions and stereotypes of others.

Various **Independent Project**
 10 Units (2 semesters)

Prerequisite: Application and teacher and administrator approval

Daily Homework: 60 minutes or more

This program allows students to explore an area of study that is not offered within the LCHS curriculum. The student meets with an LCHS mentor-teacher daily. Independent Projects are one semester and earn from 1-5 credits depending on depth of study. The student presents his/her research/project in a showcase at the end of the semester to the mentor, the counselor, an administrator, plus others. Students can take an Independent Project (I.P.) as an additional seventh period or it can count as part of the six period day (with parent, counselor and administrative approval). Sign-ups are at the beginning of each semester (Fall and Spring). Guidelines and applications are available from your counselor.

Return to Table of Contents	History/Social Science	English	ELD	Math	Science	World Languages	Visual and Performing Arts	Electives	Physical Education	Special Education
---	--	-------------------------	---------------------	----------------------	-------------------------	---------------------------------	--	---------------------------	------------------------------------	-----------------------------------

Physical Education

Department Chair: Mary Holt, mholt@lcsd.net

All students must earn a minimum of 20 units of Physical Education (PE) credit in order to graduate from LCHS. Students may earn the 20 units by taking PE classes that are grade aligned during the instructional day. Students may also earn the 20 units by participating in CIF sanctioned sports at LCHS. For students in the graduating classes of 2018-2020, students participating may still enroll in 8th period CIF Athletics for the after school sports that do not meet during 6th period. If students wish to enroll in this class, they must also co-enroll in 6th period CIF release class. For students in the graduating classes of 2021 and after, a new policy will govern how students earn PE credit for participation in athletics. Please see the new PE policy below.

Physical Education Course List

Grade(s)	Course Number	UC/CSU Transcript Abbreviation	Course Title	Graduation	College Prep	LCHS Hnrs Only/UC Hnrs	UC/CSU Approved
9	PE6000	N/A	Physical Education 9	X	N/A	N/A	N/A
10-12	PE6500	N/A	Physical Education 10-12	X	N/A	N/A	N/A
9-12	PE6008	N/A	Pep Squad	X	N/A	N/A	N/A
9-12	PE6009	N/A	Color Guard	X	N/A	N/A	N/A
9-12	PE6101	N/A	Football	X	N/A	N/A	N/A
9-12	PE6104	N/A	Boys Basketball	X	N/A	N/A	N/A
9-12	PE6105	N/A	Boys Water Polo	X	N/A	N/A	N/A
9-12	PE6106	N/A	Boys Aquatics	X	N/A	N/A	N/A
9-12	PE6110	N/A	Baseball	X	N/A	N/A	N/A
9-12	PE6116	N/A	Wrestling	X	N/A	N/A	N/A
9-12	PE6203	N/A	Girls Water Polo	X	N/A	N/A	N/A
9-12	PE6204	N/A	Girls Aquatics	X	N/A	N/A	N/A
9-12	PE6205	N/A	Girls Basketball	X	N/A	N/A	N/A
9-12	PE6209	N/A	Softball	X	N/A	N/A	N/A

9-12	PE6888	N/A	CIF Athletics	X	N/A	N/A	N/A
9	PE6005	N/A	PE Sports 9	x	N/A	N/A	N/A
10	PE6006	N/A	PE Sports 10	X	N/A	N/A	N/A

LCCHS Department Policy:

Students who turn their packet into their coach, have not been cleared through the Athletic Office & will not be eligible to participate.

The Physical clearance is only good for 1 academic year. Students who wish to participate in a sport for more than one school year, will have to fill out a packet each year.

Physical Education Courses

PE6000 **Physical Education 9**
10 units (2 semesters)

Prerequisite: None
Daily Homework: None

This course is recommended for all ninth grade students. Fundamentals and techniques of each of the eight instructional areas listed above will be addressed. Students will participate in activities that are of a vigorous nature adapted to individual capacities and designed to permit maximum development of each individual. Students will complete the California State Physical Fitness Test in the spring.

PE6500 **Physical Education 10-12**
10 units (2 semesters)

Prerequisite: None
Daily Homework: None

This is a comprehensive physical education program emphasizing overall physical fitness (cardiovascular, upper body strength, abdominal strength, and flexibility) team sports (tennis & Badminton) self-defense, dance, outdoor education, and officiating and scorekeeping of team sports. Students will also develop an understanding of the mechanics of human movement.

PE6008 **Pep Squad**
10 units (2 semesters)

Prerequisite: None
Daily Homework: None - After school performances at games are required for all three sport seasons

Members of Pep Squad are selected through a tryout process and are judged by outside professional judges. Pep Squad meets daily. They choreograph their own dance and cheer routines and are provided with varied performing experiences. Pep Squad members learn to work together for maximum potential. They attend extra practices outside of the school day and perform at various events throughout the year. Squads do a community service project each semester. The eight P.E. instructional areas will be addressed throughout the school year so that students can obtain P.E. credit. Elective credit will be awarded to students who have met P.E. requirements.

PE6009 **Color Guard**
10 units (2 semesters)

Prerequisite: None
Daily Homework: None - Out of class rehearsals, practices, and competitions are required

The Color Guard class encompasses a broad, diverse performance on the field, in the gym, and in parades. It combines modern dance with equipment work (tall flags, sabers, and rifles). Enrollment is for the entire

year. The eight P.E. instructional areas will be addressed throughout the school year so that students can obtain P.E. credit.

PE6101 Football
10 units (2 semesters)

Prerequisite: None

Daily Homework: None - practices and games during season

This physical education courses provide students with the opportunity to participate in a competitive sport and obtain P.E. or elective credit. No student will be assigned to one of these classes without approval of the varsity head coach of that program. The specific sports available during the school day are dependent upon enrollment and staffing. Students are enrolled for the entire year. All members of the program/team (grades 9-12) are expected to enroll in the class to better facilitate a year round program and off-season training. Prior competitive experience is desirable. In the off-season, the eight P.E. instructional areas will be addressed to fulfill the requirements for obtaining P.E. credit. Otherwise, elective credit can be awarded.

PE6104 Boys Basketball
10 units (2 semesters)

Prerequisite: None

Daily Homework: None - practices and games during season

This physical education courses provides students with the opportunity to participate in a competitive sport and obtain P.E. or elective credit. No student will be assigned to one of these classes without approval of the varsity head coach of that program. The specific sports available during the school day are dependent upon enrollment and staffing. Students are enrolled for the entire year. All members of the program/team (grades 9-12) are expected to enroll in the class to better facilitate a year round program and off-season training. Prior competitive experience is desirable. In the off-season, the eight P.E. instructional areas will be addressed to fulfill the requirements for obtaining P.E. credit. Otherwise, elective credit can be awarded.

PE6105 Boys Water Polo
10 units (2 semesters)

Prerequisite: None

Daily Homework: None - practices and games during season

This physical education course provides students with the opportunity to participate in a competitive sport and obtain P.E. or elective credit. No student will be assigned to one of these classes without approval of the varsity head coach of that program. The specific sports available during the school day are dependent upon enrollment and staffing. Students are enrolled for the entire year. All members of the program/team (grades 9-12) are expected to enroll in the class to better facilitate a year round program and off-season training. Prior competitive experience is desirable. In the off-season, the eight P.E. instructional areas will be addressed to fulfill the requirements for obtaining P.E. credit. Otherwise, elective credit can be awarded.

PE6106 Boys Aquatics
10 units (2 semesters)

Prerequisite: None

Daily Homework: None - practices and games during season

This physical education course provides students with the opportunity to participate in a competitive sport and obtain P.E. or elective credit. No student will be assigned to one of these classes without approval of the varsity head coach of that program. The specific sports available during the school day are dependent upon enrollment and staffing. Students are enrolled for the entire year. All members of the program/team (grades 9-12) are expected to enroll in the class to better facilitate a year round program and off-season training. Prior competitive experience is desirable. In the off-season, the eight P.E. instructional areas will be addressed to fulfill the requirements for obtaining P.E. credit. Otherwise, elective credit can be awarded.

PE6110 Baseball
10 units (2 semesters)

Prerequisite: None
Daily Homework: None

This physical education course provides students with the opportunity to participate in a competitive sport and obtain P.E. or elective credit. No student will be assigned to one of these classes without approval of the varsity head coach of that program. The specific sports available during the school day are dependent upon enrollment and staffing. Students are enrolled for the entire year. All members of the program/team (grades 9-12) are expected to enroll in the class to better facilitate a year round program and off-season training. Prior competitive experience is desirable. In the off-season, the eight P.E. instructional areas will be addressed to fulfill the requirements for obtaining P.E. credit. Otherwise, elective credit can be awarded.

PE6116 Wrestling
10 units (2 semesters)

Prerequisite: None
Daily Homework: None - practices and matches during season

This physical education course provides students with the opportunity to participate in a competitive sport and obtain P.E. or elective credit. No student will be assigned to one of these classes without approval of the varsity head coach of that program. The specific sports available during the school day are dependent upon enrollment and staffing. Students are enrolled for the entire year. All members of the program/team (grades 9-12) are expected to enroll in the class to better facilitate a year round program and off-season training. Prior competitive experience is desirable. In the off-season, the eight P.E. instructional areas will be addressed to fulfill the requirements for obtaining P.E. credit. Otherwise, elective credit can be awarded.

PE6203 Girls Water Polo
10 units (2 semesters)

Prerequisite: None
Daily Homework: None - practices and games during season

This physical education course provides students with the opportunity to participate in a competitive sport

and obtain P.E. or elective credit. No student will be assigned to one of these classes without approval of the varsity head coach of that program. The specific sports available during the school day are dependent upon enrollment and staffing. Students are enrolled for the entire year. All members of the program/team (grades 9-12) are expected to enroll in the class to better facilitate a year round program and off-season training. Prior competitive experience is desirable. In the off-season, the eight P.E. instructional areas will be addressed to fulfill the requirements for obtaining P.E. credit. Otherwise, elective credit can be awarded.

PE6204 Girls Aquatics
10 units (2 semesters)

Prerequisite: None
Daily Homework: None - practices and games during season

This physical education course provides students with the opportunity to participate in a competitive sport and obtain P.E. or elective credit. No student will be assigned to one of these classes without approval of the varsity head coach of that program. The specific sports available during the school day are dependent upon enrollment and staffing. Students are enrolled for the entire year. All members of the program/team (grades 9-12) are expected to enroll in the class to better facilitate a year round program and off-season training. Prior competitive experience is desirable. In the off-season, the eight P.E. instructional areas will be addressed to fulfill the requirements for obtaining P.E. credit. Otherwise, elective credit can be awarded.

PE6205 Girls Basketball
10 units (2 semesters)

Prerequisite: None
Daily Homework: None - practices and games during season

This physical education course provides students with the opportunity to participate in a competitive sport and obtain P.E. or elective credit. No student will be assigned to one of these classes without approval of the varsity head coach of that program. The specific sports available during the school day are dependent upon enrollment and staffing. Students are enrolled for the entire year. All members of the program/team (grades 9-12) are expected to enroll in the class to better facilitate a year round program and off-season

training. Prior competitive experience is desirable. In the off-season, the eight P.E. instructional areas will be addressed to fulfill the requirements for obtaining P.E. credit. Otherwise, elective credit can be awarded.

PE6209 Softball
10 units (2 semesters)

Prerequisite: None

Daily Homework: None - practices and games during season.

This physical education course provides students with the opportunity to participate in a competitive sport and obtain P.E. or elective credit. No student will be assigned to one of these classes without approval of the varsity head coach of that program. The specific sports available during the school day are dependent upon enrollment and staffing. Students are enrolled for the entire year. All members of the program/team (grades 9-12) are expected to enroll in the class to better facilitate a year round program and off-season training. Prior competitive experience is desirable. In the off-season, the eight P.E. instructional areas will be addressed to fulfill the requirements for obtaining P.E. credit. Otherwise, elective credit can be awarded.

PE 6005 PE Sports 9
10 units (2 semesters)

Prerequisite: None

Daily Homework: None

This physical education course is taken in conjunction with participation in a competitive sport. Students will receive strength and conditioning that is sport specific as well as be exposed to components of the traditional 9th grade PE curriculum. Students will also receive embedded health instruction.

PE 6006 PE Sports 10
10 units (2 semesters)

Prerequisite: None

Daily Homework: None

This physical education course is taken in conjunction with participation in a competitive sport. Students will receive strength and conditioning that is sport specific as well as be exposed to components of the traditional 10th grade PE curriculum.

[Return to Table of Contents](#)[History/Social Science](#)[English](#)[ELD](#)[Math](#)[Science](#)[World Languages](#)[Visual and Performing Arts](#)[Electives](#)[Physical Education](#)[Special Education](#)

Special Education

Department Chair: Laura Deans, ldkans@lcsd.net

Special Education at La Canada High School is a support system for students who have been identified as needing special instructional support and accommodations in their educational environment. Students receiving these services are assigned to one of the special educational staff members who will become the student's case carrier. The case carrier is the contact person for the student's individual support system.

The support system for students who receive special Education services is designed through the student's annual Individual Educational Plan (IEP). A team made up of the student, student's case carrier, parent(s), and classroom teacher(s), and support staff (psychologist, counselor, speech therapist, occupational therapists, and administrators) develop the IEP and the individualized support system. Support services designed by the IEP include a wide range of options from registration in general education classes with support from Special Education staff, to specialized, modified classes, taught by Special Education staff.

REGISTRATION FOR SPECIAL EDUCATION STUDENTS

Registration for all students who receive Special Education support **MUST** be done in conjunction with the student's case carrier and is based on the student's IEP. **A student's registration is NOT COMPLETE until the student's case carrier has verified that the courses are in compliance with the student's IEP.** Students and parent(s) must complete the Course Selection Contract. Signatures of parent(s) and the student's case carrier are required in order to confirm that course selections are in accordance with the student's IEP. There are two types of Special Education classes taught by the Special Education staff. Enrollment in these classes is open to students whose IEP team has determined a need:

1. Directed Studies – a class designed to give students time to get extra instruction or assistance from the student's teacher of record and/or time to stay current on assignments from general education classes.
2. Modified Academic Classes – classes that follow similar curriculum to the general education classes but which are modified and designed for students who need more individualized assistance than can be provided in the general educational setting.

Special Education Course List

Grade(s)	Course Number	Transcript Abbreviation	Course Title	Graduation	College Prep	LCHS Hrs Only/UC Hrs	UC/CSU Approved
9-12	EL0026	Directed Studies	Directed Studies	X	N/A	N/A	N/A
9-12	EN0089	Functional Academics	Functional Academics	X	N/A	N/A	N/A
9	EN0031	English 1-Modified	English 1-Modified	X	N/A	N/A	N/A
10	EN0032	English 2-Modified	English 2-Modified	X	N/A	N/A	N/A
11	EN0033	English 3-Modified	English 3-Modified	X	N/A	N/A	N/A
12	EN0030	English 4-Modified	English 4-Modified	X	N/A	N/A	N/A
9-12	MA0031	LC Math 1-Modified	LC Math 1-Modified	X	N/A	N/A	N/A
9-12	MA0033	LC Math 2-Modified	LC Math 2-Modified	X	N/A	N/A	N/A
9-12	MA0034	LC Math 3-Modified	LC Math 3-Modified	X	N/A	N/A	N/A
9-12	MA0058	Geometry-Modified	Geometry-Modified	X	N/A	N/A	N/A
9-12	MA0048	Algebra 2-Modified	Algebra 2-Modified	X	N/A	N/A	N/A
10	WH0065	World History-Modified	World History-Modified	X	N/A	N/A	N/A
11	AH0066	American History-Modified	American History-Modified	X	N/A	N/A	N/A
12	GV0063	Gov/Econ-Modified	Government/Economics -Modified	X	N/A	N/A	N/A
9-12	PE0078	Adaptive PE	Adaptive PE	X	N/A	N/A	N/A

LCHS Department Policy:

Course selection into Special Education classes is by Special Education case carrier approval.

Special Education Courses

EL0026

English 1 - Modified
10 units (2 semesters)

Prerequisite: By approval only
Daily Homework: Up to 30 minutes

A class designed to give students time to get extra instruction or assistance from the Student's Teacher of Record and/or time to stay current on assignments from general education classes.

EN0089

Functional Academics
10 units (2 semesters)

Prerequisite: By approval only
Daily Homework: Up to 30 minutes

- Functional Academics Math
- Functional Academics English
- Functional Academics Social Science

EN0031 **English 1 - Modified**
10 units (2 semesters)

Prerequisite: By approval only
Daily Homework: Up to 30 minutes

Modified Academic Classes – classes that follow similar curriculum to the general education classes but which are modified and designed for students who need more individualized assistance than can be provided in the general educational setting.

EN0032 **English 2 - Modified**
10 units (2 semesters)

Prerequisite: By approval only
Daily Homework: Up to 30 minutes

Modified Academic Classes – classes that follow similar curriculum to the general education classes but which are modified and designed for students who need more individualized assistance than can be provided in the general educational setting.

EN0033 **English 3 - Modified**
10 units (2 semesters)

Prerequisite: By approval only
Daily Homework: Up to 30 minutes

Modified Academic Classes – classes that follow similar curriculum to the general education classes but which are modified and designed for students who need more individualized assistance than can be provided in the general educational setting.

EN0030 **English 4 - Modified**
10 units (2 semesters)

Prerequisite: By approval only
Daily Homework: Up to 30 minutes

Modified Academic Classes – classes that follow similar curriculum to the general education classes but which are modified and designed for students who need more individualized assistance than can be provided in the general educational setting.

MA0031 **LC Math 1 - Modified**
10 units (2 semesters)

Prerequisite: By approval only
Daily Homework: Up to 30 minutes

Modified Academic Classes – classes that follow similar curriculum to the general education classes but which are modified and designed for students who need more individualized assistance than can be provided in the general educational setting.

MA0033 **LC Math 2 - Modified**
10 units (2 semesters)

Prerequisite: By approval only
Daily Homework: Up to 30 minutes

Modified Academic Classes – classes that follow similar curriculum to the general education classes but which are modified and designed for students who need more individualized assistance than can be provided in the general educational setting.

MA0034 **LC Math 3 - Modified**
10 units (2 semesters)

Prerequisite: By approval only
Daily Homework: Up to 30 minutes

Modified Academic Classes – classes that follow similar curriculum to the general education classes but which are modified and designed for students who need more individualized assistance than can be provided in the general educational setting.

WH0065 **World History - Modified**
10 units (2 semesters)

Prerequisite: By approval only
Daily Homework: Up to 30 minutes

Modified Academic Classes – classes that follow similar curriculum to the general education classes but which are modified and designed for students who need more individualized assistance than can be provided in the general educational setting.

AH0066 **American History - Modified**
10 units (2 semesters)

Prerequisite: By approval only

Daily Homework: Up to 30 minutes

Modified Academic Classes – classes that follow similar curriculum to the general education classes but which are modified and designed for students who need more individualized assistance than can be provided in the general educational setting.

GV0063 **Government/Economics - Modified**
10 units (2 semesters)

Prerequisite: By approval only

Daily Homework: Up to 30 minutes

Modified Academic Classes – classes that follow similar curriculum to the general education classes but which are modified and designed for students who need more individualized assistance than can be provided in the general educational setting.

PE0078 **Adaptive PE**
10 units (2 semesters)

Prerequisite: By approval only

Daily Homework: None

Modified Academic Classes – classes that follow similar curriculum to the general education classes but which are modified and designed for students who need more individualized assistance than can be provided in the general educational setting.

Return to Table of Contents	History/Social Science	English	ELD	Math	Science	World Languages	Visual and Performing Arts	Electives	Physical Education	Special Education
---	--	-------------------------	---------------------	----------------------	-------------------------	---------------------------------	--	---------------------------	------------------------------------	-----------------------------------

Appendices

- **Time Estimator Worksheet**
- **Four Year Plan**
- **Administrative Policies**
 - **Online Course Approval Policy**
 - **Summer School**
 - **Non La Canada High School Course Transfer Policy**
 - **Math Placement Policy**

